



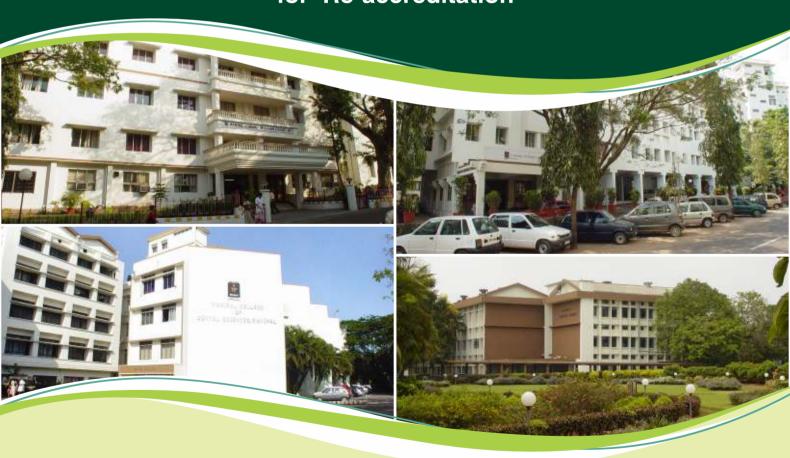
Evaluative Reports 2015

Vol. 2B

Health Sciences Program - Other institutions at Manipal (Except KMC)

Submitted to

National Assessment and Accreditation Council (NAAC) for Re-accreditation



Submitted by

Manipal Academy of Higher Education

Manipal - 576 104, Karnataka



CONTENTS

Volume 2 B

| | | Page No |
|-----|---|----------|
| 1. | Evaluative Report – School of Allied Health Sciences, Manipal | 01 – 115 |
| 2. | Evaluative Report – School of Life Sciences, Manipal | 116–194 |
| 3. | Evaluative Report – Department of Statistics, KMC Manipal | 195-223 |
| 4. | Evaluative Report – Department of Public Health, KMC Manipal | 224-240 |
| 5. | Evaluative Report – Department of Virus Research, KMC Manipal | 241-263 |
| 6. | Evaluative Report – Department of Library & Information Science, KMC Manipal | 264-272 |
| 7. | Evaluative Report – Manipal College of Dental Sciences, Manipal (Institution) | 273-306 |
| 8. | Evaluative Report – Manipal College of Dental Sciences, Manipal (Departments) | 307-483 |
| 9. | Evaluative Report – Manipal College of Nursing, Manipal | 484-538 |
| 10. | Evaluative Report – Manipal College of Pharmaceutical Sciences, Manipal | 539-680 |
| 11. | Annexure no. H S 1 | i - xxv |



1. Name of the College: School of Allied Health Sciences (SOAHS)

2. Year of establishment: 1999

3. Is the department part of a school/faculty of the University?

Yes, it is a part of Kasturba Medical College (KMC), Manipal

4. Names of programmes/ courses offered (UG, PG, MPhil., PhD Integrated Masters; Integrated PhD etc.,)

| SI No. | Programmes Offered | Duration (Years) |
|--------|---|---------------------|
| 1 | Bachelor of Audiology & Speech Language Pathology (BASLP) | 4 |
| 2 | BSc Cardiovascular Technology (BScCVT) | 4 |
| 3 | BSc Clinical Optometry (BScOPTM) | 4 |
| 4 | BSc Health Information Administration (BScHIA) | 3 |
| 5 | BSc Medical Imaging Technology (BScMIT) | 4 |
| 6 | BSc Medical Laboratory Technology (BScMLT) | 4 |
| 7 | BSc Medical Radiotherapy Technology (BScMRT) | 4 |
| 8 | BSc Nuclear Medicine Technology (BScNMT) | 4 |
| 9 | Bachelor of Occupational Therapy (BOT) | 4 1/2 |
| 10 | BSc Operation Theatre & Anesthesia | 3 1/2 |
| 11 | Bachelor of Physiotherapy (BPT) | 4 1/2 |
| 12 | BSc Respiratory Therapy (BScRT) | 4 |
| 13 | BSc Renal Replacement Therapy & Dialysis Technology (BScRRT & DT) | 4 |
| 14 | BSc in Perfusion Technology | 4 |
| 15 | Master of Audiology & Speech Language Pathology (MASLP) | 2 |
| 16 | Master of Clinical Optometry | |
| 17 | MSc Echocardiography | 2 |
| 18 | MSc Hospital & Health Information Administration (MScHHIA) | 2 |
| 19 | MSc Medical Imaging Technology (MScMIT) | 2 |
| 20 | MSc Medical Laboratory Technology | 2 |
| | MSc MLT Clinical Biochemistry | |
| | MScMLT- Microbiology & Immunology | |
| 21 | MSc Medical Radiation Physics (MSc MRP) | 2 |
| 22 | MSc Nuclear Medicine Technology (MSc NMT) | 2 |
| 23 | Master of Occupational Therapy (MOT) | 2 |
| | MOT - Child health | |
| | MOT – Musculoskeletal conditions | |
| | MOT– Neurosciences | |
| | MOT– Mental Health & Psychosocial | |
| | rehabilitation | |
| 24 | Master of Physiotherapy (MPT) | 2 |
| | MPT – Cardio-pulmonary Sciences | |
| | MPT – Community based Rehabilitation | |
| | MPT - Neuro Sciences | |
| | MPT- Orthopedics | |



| SI No. | Programmes Offered | Duration (Years) |
|--------|---|---------------------|
| | MPT – Women Health & Pediatrics | |
| 25 | MSc Respiratory Therapy (MScRT) | 2 |
| | MSc RT – Adult Respiratory Care | |
| | MSc RT – Neonatal & Pediatric | |
| | Respiratory Care | |
| 26 | MSc Renal Replacement Therapy & Dialysis Technology (MScRRT &DT) | 2 |
| 27 | MPT(Dual Degree) Sports and Clinical Biomechanics | 2 |
| 28 | MSc Cardiac Cath and Interventional Technology | 2 |
| 29 | Msc Clinical Psychology | 2 |
| 30 | MPhil Clinical Psychology | 2 |
| 31 | Anaesthesia/ OT Technician | 2 |
| 32 | Cardiovascular Technician | 2 |
| 33 | Dialysis Therapy Technician | 2 or3 |
| 34 | Endoscopy Technician | 2 |
| 35 | EEG/Neurophysiology Technician | 2 |
| 36 | ENT Technician | 2 |
| 37 | Emergency Medical Technician | 2 |
| 38 | Medical Laboratory Technician | 2 |
| 39 | Operation Theatre Technician | 2 |
| 40 | Radiotherapy Technician | 2 |
| 41 | Radiodiagnosis and Imaging Technician | 2 |
| 42 | Medical Imaging Technology(X-Ray) | 2 |
| 43 | Postgraduate Diploma in Healthcare Counseling and Management (PGDHCM) | 1 |
| 44 | ECG technician | 1 |
| 45 | Hand Splinting | 1 month |
| 46 | Laboratory safety | 1 month |
| 47 | Medical records management | 2 weeks |
| 48 | Optometry technician | 1 1/2 |
| 49 | Pulmonary Function test technician | 1 |
| 50 | Physician Assistant | 1 |
| 51 | Respiratory Therapy | 1 |
| 52 | Respiratory Lab Technician | 1 |
| 53 | Transfusion Medicine (Blood Bank) | 6 months |
| 54 | Medical Coding & Billing | 6 weeks |
| 55 | Voice Rehabilitation after Laryngectomy | 6 months |
| 56 | Emergency Medical Technology | 1 year/6 months |
| 57 | MSc Exercise and Sports Sciences | 2 |

5. Interdisciplinary courses and departments involved

| Sl. No | Department at SOAHS | | Course & Subject | | Collaborative Department/Institution | |
|-----------|----------------------|-------------|----------------------|--------|---|--|
| 1 | Health Management | Information | M.Sc. Informatics | Health | School of Information Sciences | |

EVALUATIVE REPORT OF THE DEPARTMENT



| 2 | 2 | Department | of | MPT | in | clinical | Robert | Gordon | University, |
|---|---|---------------|----|-------|------|----------|----------|--------|-------------|
| | | Physiotherapy | | Biome | chan | ics | Scotland | , UK | |

- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.
- a. MPT in Sports and Clinical Biomechanics in colloboration with Robert Gordon University, Scotland
- b. Bridge program for BPT
- c. Bridge Program for BSc RT
- 7. Details of programmes/ courses discontinued, if any, with reasons

Nil

8. Annual/Semester/Choice Based Credit System

| | Under Graduate Programmes | | | | | | | | | |
|-----|---------------------------------------|---------|-----------|-----------|-----------|--|--|--|--|--|
| Sl. | Programmes | Duratio | Annual | Semester | Credit | | | | | |
| No | | n | | | | | | | | |
| 1 | Bachelor of Audiology & Speech | 4 | | $\sqrt{}$ | | | | | | |
| | Language Pathology (BASLP) | | | | | | | | | |
| 2 | BSc Cardiovascular Technology | 4 | $\sqrt{}$ | | | | | | | |
| | (BScCVT) | | | | | | | | | |
| 4 | BSc Clinical Optometry (BScOPTM) | 4 | | | $\sqrt{}$ | | | | | |
| 5 | BSc Health Information Administration | 3 | | | $\sqrt{}$ | | | | | |
| | (BScHIA) | | | | | | | | | |
| 6 | BSc Medical Imaging Technology | 4 | $\sqrt{}$ | | | | | | | |
| | (BScMIT) | | | | | | | | | |
| 7 | BSc Medical Laboratory Technology | 4 | $\sqrt{}$ | | | | | | | |
| | (BScMLT) | | | | | | | | | |
| 8 | BSc Medical Radiotherapy Technology | 4 | $\sqrt{}$ | | | | | | | |
| | (BScMRT) | | | | , | | | | | |
| 9 | BSc Nuclear Medicine Technology | 4 | $\sqrt{}$ | | $\sqrt{}$ | | | | | |
| | (BScNMT) | | | | | | | | | |
| 10 | Bachelor of Occupational Therapy | 4 1/2 | $\sqrt{}$ | | | | | | | |
| | (BOT) | | , | | | | | | | |
| 11 | BSc Operation Theatre & Anesthesia | 3 ½ | V | | | | | | | |
| 12 | Bachelor of Physiotherapy (BPT) | 4 1/2 | V | | | | | | | |
| 13 | BSc Respiratory Therapy (BScRT) | 4 | V | | | | | | | |
| 14 | BSc Renal Replacement Therapy & | 4 | $\sqrt{}$ | | | | | | | |
| | Dialysis Technology (BScRRT & DT) | | | | | | | | | |
| 15 | BSc In Perfusion Technology | 4 | | | $\sqrt{}$ | | | | | |
| 16 | Master of Audiology & Speech | 2 | $\sqrt{}$ | | | | | | | |
| | Language Pathology (MASLP) | | | | | | | | | |
| 18 | Master of Clinical Optometry | 2 | V | | | | | | | |
| 19 | MSc Echocardiography | 2 | V | | | | | | | |
| 20 | MSc Hospital & Health Information | 2 | | | $\sqrt{}$ | | | | | |
| | Administration (MScHHIA) | | | | | | | | | |
| 21 | MSc Medical Imaging Technology | 2 | $\sqrt{}$ | | | | | | | |



| | (MScMIT) | | | | |
|----|--------------------------------------|----------|-----------|-----------|-----------|
| 22 | MSc Medical Laboratory Technology | 2 | $\sqrt{}$ | | |
| | MSc MLT Clinical Biochemistry | | $\sqrt{}$ | | |
| | MScMLT- Microbiology & | | $\sqrt{}$ | | |
| | Immunology | | | | |
| 22 | MSc Medical Radiation Physics (MSc | 2 | | $\sqrt{}$ | |
| | MRP) | | | | |
| 23 | MSc Nuclear Medicine Technology | 1 | $\sqrt{}$ | | |
| | (MSc NMT) | | | | |
| 24 | Master of Occupational Therapy (MOT) | 2 | $\sqrt{}$ | | |
| | MOT - Child health | | $\sqrt{}$ | | |
| | MOT – Musculoskeletal conditions | | $\sqrt{}$ | | |
| | MOT – Neurosciences | | $\sqrt{}$ | | |
| | MOT– Mental Health & | | $\sqrt{}$ | | |
| | Psychosocial | | | | |
| | rehabilitation | | | | |
| 25 | Master of Physiotherapy (MPT) | 2 | $\sqrt{}$ | | |
| | MPT – Cardio-pulmonary Sciences | | $\sqrt{}$ | | |
| | MPT – Community based | | V | | |
| | Rehabilitation | | | | |
| | MPT - Neuro Sciences | | $\sqrt{}$ | | |
| | MPT- Orthopedics | | V | | |
| | MPT – Women Health & Pediatrics | | $\sqrt{}$ | | |
| 26 | MSc Respiratory Therapy (MScRT) | 2 | $\sqrt{}$ | | |
| | MSc RT – Adult Respiratory Care | | $\sqrt{}$ | | |
| | MSc RT – Neonatal & Pediatric | | | | |
| | Respiratory Care | | | | |
| 27 | MSc Renal Replacement Therapy & | 2 | $\sqrt{}$ | | |
| | Dialysis Technology (MScRRT & DT) | | | | |
| 28 | MPT(Dual Degree) Sports and Clinical | 2 | | V | |
| | Biomechanics | | | | |
| 29 | MSc Cardiac Cath and Interventional | 2 | $\sqrt{}$ | | |
| | Technology | | | | |
| | MPhil / PhD | Programs | | | |
| 30 | Clinical Psychology | 2 | V | | |
| 31 | MSc Exercise and Sports Sciences | 2 | | V | $\sqrt{}$ |
| | | | | | |

9. Participation of the department in the courses offered by other departments

| Sl. | Dept. | at | Courses& Subject | Dept. at SOAHS /other |
|-----|------------|----|---------------------|-------------------------------|
| No. | SOAHS | | | Institutions |
| 1 | Department | of | M.Sc. MIT, | Department of Medical imaging |
| | Nuclear | | Postings at Nuclear | Technology, SOAHS Manipal |
| | Medicine | | Medicine Department | |
| | | | M.Sc. MRP | Department of Radiotherapy, |
| | | | Physics in Nuclear | KMC Manipal |
| | | | Medicine | |
| 2 | Dept. | of | B.Sc. NMT | Nuclear Medicine |
| | Medical | | Introduction to CT/ | |
| | Imaging | | MRI/Ultrasound | |



| | | B.Sc. MRP M.Sc. MRP Physics of MIT BASLP Basics of Radiology (CT/MRI) Diploma in MLT - Physics | MSc. Radiation physics Speech and hearing B.Sc.Medical Lab Technology |
|---|-----------------------------------|--|--|
| 3 | Clinical Psychology classes | BPT, BOT (I&IV), B.Sc RT, BASLP, CVT, BSc Optometry, Clinical Psychology, Psychology related to Speech and Hearing, General Psychology. Organizational Behavior. BSc Nursing, MSc Nursing BS Engg MPhil PSW | Department of Physiotherapy Department of Occupational Therapy Department of Respiratory Therapy Department of Speech and Hearing Department of Cardio Vascular Therapy Manipal College of Nursing International Centre for Applied Sciences (ICAS) KMC – Department of Psychiatry |
| 4 | Physiotherapy | Biomedical Equipment in in Physiotherapy | MIT – M.Tech & B.Tech |
| 5 | Speech and Hearing | Biomedical Equipment in in Speech and Hearing | Biomedical Engineering (5 th Semester), MIT |
| 6 | Respiratory Therapy | Mechanical Ventilation | Biomedical Engineering, MSc Nursing |

10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

| | Sanctioned | Filled |
|--------------------------------------|------------|--------|
| Professor | 18 | 09 |
| Associate Professors | 37 | 22 |
| Assistant Professors Selection Grade | 59 | 72 |
| Assistant Professors Senior Scale | | |
| Assistant Professors | | |
| Assistant Lecturer | 0 | 15 |

11. Faculty profile with name, qualification, designation and specialization (DSc/DLit/ PhD/MPhil etc.) –

11 a. Physiotherapy

| # | Name of the Teacher | Qualificati on | Designation | Specialization | Experience | No. of PhD student guided |
|---|------------------------|-------------------|-------------|----------------|------------|------------------------------------|
|---|------------------------|-------------------|-------------|----------------|------------|------------------------------------|



| | | | | | | for the last |
|----|---|--|--------------------------------------|---------------------|----|-----------------|
| | | | | | | 4 years |
| 1 | Dr. Arun Mayya G MAHE00042 82 | B.Sc. BPT, MPT (Cardio), Ph.D. | Professor | Cardiopulmona ry | 18 | 10 |
| 2 | Dr. Bhamini K Rao MAHE00042 84 | BPT, MPT (Cardio), PhD. | Professor | Cardiopulmona ry | 14 | 2 |
| 3 | Dr. Vaishali MAHE00043 33 | BPT, MPT (Cardio), Ph.D | Professor | Cardiopulmona ry | 14 | |
| 4 | Dr. John Solomon M MAHE00048 18 | BPT, MPT (Neuro), Ph.D | Assoc. Prof. | Neuroscience | 14 | 2 |
| 5 | Dr. Manikandan N MAHE00048 19 | BPT, MPT (Neuto) | Assoc. Prof. | Neuroscience | 16 | |
| 6 | Mr. Kalyana Chakravarthy MAHE00060 18 | BPT MPT (Cardio) | Assoc. Prof. | Cardiopulmona ry | 10 | |
| 7 | Dr. Prem V MAHE00052 56 | BPT, MPT (Cardio) Ph.D | Assoc. Prof. | Cardiopulmona ry | 09 | |
| 8 | Mr. Senthil Kumaran D MAHE00064 47 | BPT MPT (Neuro) | Assoc. Prof. | Neuroscience | 14 | |
| 9 | Mr. Karthik Babu S MAHE00064 51 | BPT MPT (Neuro) | Asst. Prof. Selection Grade | Neuroscience | 07 | |
| 10 | Mr. Ranganath Gangavelli MAHE00061 08 | BPT MPT (Ortho) | Asst. Prof. Selection Grade | Orthopaedics | 09 | |
| 11 | Mr. Ganesh Balthillaya M MAHE00046 72 | BPT MPT (Ortho) | Asst. Prof. Senior Scale | Orthopaedics | 14 | |



| 1.0 | 3.6 01 1 3.7 | D D C | T | | | |
|-----------|--------------|-------------|--------------|---------------------|----|--|
| 12 | Mr. Girish N | BPT | Asst. | Community | | |
| | MAHE00079 | | Prof. | Based | 07 | |
| | 17 | MPT | Selection | Rehabilitation | | |
| | | (CBR) | Grade | | | |
| 13 | Mr. Nafeez | BPT | Asst. | Cardiopulmona | 03 | |
| | Syed | | Prof. | ry | | |
| | MAHE00097 | MPT | Selection | 13 | | |
| | 63 | (Cardio) | Grade | | | |
| 1.4 | | | - | D 1' ' | 07 | |
| 14 | Ms. Preetha | BPT | Asst. | Pediatric | 07 | |
| | R | | Prof. | | | |
| | MAHE00053 | MPT | Selection | | | |
| | 56 | (Pediatric) | Grade | | | |
| 15 | Ms. | BPT | Asst. | Cardiopulmona | 07 | |
| | Niveditha S | | Prof. Senior | ry | | |
| | Kamath | MPT | Scale | | | |
| | MAHE00078 | (Cardio) | | | | |
| | 11 | (Caraio) | | | | |
| 16 | Mr. Abraham | BPT | Asst. | Cardiopulmona | 05 | |
| 10 | Samuel Babu | ווע | Prof. Senior | _ | 05 | |
| | | MDT | | ry | | |
| | MAHE00096 | MPT | Scale | | | |
| | 28 | (Cardio) | | | | |
| 17 | Mr. | BPT | Asst. | Orthopaedics | 03 | |
| | Karvannan H | | Prof. Senior | | | |
| | MAHE00097 | MPT | Scale | | | |
| | 61 | (Ortho) | | | | |
| 18 | Ms. | BPT | Asst. | Orthopaedics | 02 | |
| | Anupama | | Prof. | o start P and asset | - | |
| | Prabhu B | MPT | 1101. | | | |
| | MAHE00108 | (Ortho) | | | | |
| | 18 | (Offilo) | | | | |
| 10 | | DDT | A4 | F | 02 | |
| 19 | Mr. Prateek | BPT | Asst. | Exercise | 03 | |
| | Srivastav | | Prof. | Therapy | | |
| | MAHE00113 | MPT | | | | |
| | 99 | (Exercise | | | | |
| | | Therapy) | | | | |
| 20 | Ms. | BPT | Asst. Prof. | Pediatrics | 01 | |
| | Deepalaxmi | MPT | | | | |
| | Poojary | (Pediatrics | | | | |
| | MAHE00130 |) | | | | |
| | 16 | <i>'</i> | | | | |
| 21 | Mr. Y V | BPT | Asst. Prof. | Orthopaedics | 01 | |
| 41 | | MPT | 1100t. 1101. | Ormopacuics | 01 | |
| | Raghava | | | | | |
| | Neelapala | (Orthoped | | | | |
| | MAHE00130 | ics) | | | | |
| | 34 | | | | | |
| 22 | Ms. | BPT | Asst. Prof. | Community | 01 | |
| | Sidhiprada | MPT | | Physiotherapy | | |
| | Mohapatra | (Communi | | | | |
| | MAHE00130 | ty | | | | |
| | 91 | Physiother | | | | |
| | 71 | _ | | | | |
| | | apy) | | | | |



| 23 | Mr. Anup Bhat | BPT MPT | Asst. Prof. | Cardiopulmona ry | 02 | |
|----|---|---|-----------------------|---------------------|----|--|
| | MAHE00131 67 | (Cardio) | | | | |
| 24 | Ms. Shubha R Nayak MAHE00038 59 | ВРТ | Assistant Lecturer | NA | 18 | |
| 25 | Mr. Rajesh Navada G V MAHE00061 56 | BPT (Bridge Course) BHIA (DE) | Assistant Lecturer | NA | 09 | |
| 26 | Ms.Nirmala Nayak S MAHE00061 57 | BPT (Bridge Course) | Assistant Lecturer | NA | 09 | |
| 27 | Mr. Srinivas Nayak MAHE00066 85 | BPT (Bridge Course) | Assistant Lecturer | NA | 08 | |
| 28 | Ms. Veena Suresh Bhat MAHE00071 95 | BPT (Bridge Course) | Assistant Lecturer | NA | 08 | |
| 29 | Mr. Vishweshwar a Bhat MAHE00072 26 | BPT (Bridge Course) | Assistant Lecturer | NA | 08 | |
| 30 | Ms. Triveni Bhat MAHE0007227 | BPT (Bridge Course) | Assistant Lecturer | NA | 08 | |
| 31 | Ms. Shalini H MAHE0008161 | BPT (Bridge Course) | Assistant Lecturer | NA | 06 | |
| 32 | Ms. Vanitha N Shetty MAHE0008162 | BPT (Bridge Course) | Assistant Lecturer | NA | 06 | |
| 33 | Ms. Flora Prateek Srivastav MAHE00123 | BPT | Assistant Lecturer | NA | 02 | |

Msc Exercise and Sport sciences

| # | Name of the Teacher | Qualifications | Designation | Specializ ation | Experien ce | No. of PhD student guided for the last 4 years |
|---|------------------------|----------------|-------------|--------------------|----------------|--|
|---|------------------------|----------------|-------------|--------------------|----------------|--|



| 1 | Dr Fiddy Davis | BPT, PG Dip in Sports Physiotherapy MPT, PhD | Assoc. Prof. | Exercise Therapy and Sports Science | 16 | 1 |
|---|-------------------|---|-----------------------------------|-------------------------------------|----|---|
| 2 | Mr Prabu Raja | BPT, MPT, MSc Biology of Physical activity | Asst. Prof. Senior scale | NA | 06 | |

11b. Occupational Therapy

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experie nce | No. of PhD students guided for the last 4 years |
|---|--|---|--------------------------------|--------------------------------|----------------|---|
| 1 | Dr. Shovan Saha MAHE0003 962 | Bachelor of OT M.Sc. (OT) Ph.D | Assoc. Prof. | Hand Rehabilitation | 16 | |
| 2 | Dr. Sebestina Anita D'Souza MAHE0004 392 | B.Sc (OT) M.Sc.(OT) Ph.D | Professor | Neuroscience | 13 | |
| 3 | Mr. Sridhar D MAHE0004 919 | BOT DROT MOT | Asst. Prof. Senior Scale | Musculoskelet al Conditions | 10 | |
| 4 | Mr. Sanjiv Kumar MAHE0007 996 | BOT MOT | Asst. Prof. Senior Scale | Musculoskelet al Conditions | 05 | |
| 5 | Ms. Vinita A Acharya MAHE0006 856 | BSc. (OT) MOT | Asst. Prof. Selection Grade | Neuroscience | 06 | |
| 6 | Mr. Koushik Sau MAHE0009 185 | BOT MOT | Asst. Prof. Senior Scale | Child Health | 03 | |
| 7 | Ms. Banumathe K R MAHE0010 368 | BOT MOT | Asst. Prof. Senior Scale | Paedriatrics | 03 | |
| 8 | Mr. Guruprasad V | BOT MOT | Asst. Prof. | Neuroscience | 02 | |



| | MAHE0011 322 | | | | | |
|---|---|-----|-----------------------|----|----|--|
| 9 | Ms. Shalini Quadros MAHE0010 921 | ВОТ | Assistant Lecturer | NA | 02 | |

11c. Speech & Hearing

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|--|---|------------------------|----------------|------------|--|
| 1 | Dr. B Rajashekhar MAHE00003 27 | MSc. (S & H) Ph.D (S & H) | Professor & Dean | NA | 39 | Complet ed Guide: 06 Co- guide: 08 |
| | | | | | | Ongoing Guide:0 3 Co- Guide:0 3 |
| 2 | Dr. Venkataraj Aithal U MAHE00039 40 | BSc. (S &H) MSc. (S & H) Ph.D | Professor | NA | 18 | 02 ongoing |
| 3 | Dr.Krishna Y MAHE00047 35 | BSc. (S & H) MSc. (S & H) CCC - A Ph.D | Professor | NA | 13 | 02 ongoing |
| 4 | Dr. Veena K D MAHE00041 18 | BSc. (S & H) MSc. (S & H) Ph.D | Assoc. Prof. | NA | 17 | |
| 5 | Dr.G Kanaka MAHE00041 58 | BSc. (S & H) MSc. (S & H) Ph.D | Assoc. Prof. | NA | 17 | |
| 6 | Dr. Usha Devadas MAHE00034 | BASLP MASLP Ph.D | Assoc. Prof. | NA | 20 | |
| 7 | Dr. Gopee Krishnan MAHE00053 | BSc. (S & H) MSc. (S & H) Ph.D | Assoc. Prof. | NA | 11 | 01 ongoing |



| | 12 | | 1 | 1 | | |
|----|--|------------------------------------|--------------------------------------|----|----|--|
| | 13 | | | | | |
| | | | | | | |
| 8 | Dr. Shivani Tiwari MAHE00055 00 | BSc.(S & H) MSc.(S & H) Ph.D | Assoc. Prof. | NA | 11 | |
| 9 | Mr. Hari Prakash P MAHE00062 45 | BSc.(S & H) MSc.(S & H) | Asst. Prof. Selection Grade | NA | 09 | |
| 10 | Mr. Kishan M M MAHE00068 70 | BASLP M.Sc.(Audiolo gy) | Asst. Prof. Selection Grade | NA | 08 | |
| 11 | Dr. Sunila John MAHE00070 26 | BASLP MASLP Ph.D | Assoc. Prof. | NA | 08 | |
| 12 | Ms. Archana G MAHE00096 37 | BASLP MASLP | Asst. Prof. Senior Scale | NA | 05 | |
| 13 | Ms. Angel Mercy Ruby Selvakumar MAHE00103 54 | BASLP MASLP | Asst. Prof. Senior Scale | NA | 04 | |
| 14 | Ms. Bhargavi P G MAHE00107 93 | BASLP MASLP | Asst. Prof. | NA | 04 | |
| 15 | Ms. Rama Prabhu K MAHE00004 86 | BSc.(S & H) | Assistant Lecturer | NA | 36 | |
| 16 | Ms. Sheela S MAHE00122 71 | BASLP MSLP | Asst. Prof. | NA | 01 | |
| 17 | Ms. Rekha Patil S MAHE00130 33 | BASLP | Assistant Lecturer | NA | 10 | |

11d. Medical Laboratory Technology

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experie nce | No. of PhD student guided for the last 4 years |
|---|------------------------|----------------|-------------|----------------|----------------|--|
|---|------------------------|----------------|-------------|----------------|----------------|--|



| 1 | Dr. Saleena Ummer V MAHE00047 86 | Dip. In Medical Instrumentatio n Engg. BMLT MSc. (MLT) PhD | Assoc. Prof. and Head | Clinical Biochemistry | 12 | |
|---|--|--|-------------------------------|------------------------------|-----|---|
| 2 | Mr. Vivek Raghavan MAHE00053 | BSc. (MLT) MSc. (MLT) | Asst. Prof. Senior Scale | Cytology & Cytologygeneti cs | 10 | |
| 3 | Ms. Saritha Kamath U MAHE00069 78 | Dip. In MLT BMLT (DE) MSc. (MLT) | Asst. Prof. Selection grade | Clinical Biochemistry | 07 | |
| 4 | Ms.Kusumak shi | BMLT MSc. (MLT) | Asst. Prof.Senior Scale | Microbiology &Immunology | 09 | |
| 5 | Ms. Asha Patil | Dip. In MLT BMLT (DE) M.Sc. (MLT) | Asst. Prof. Senior Scale | Microbiology &Immunology | 04 | |
| 6 | Ms. Anju. M | BMLT M.Sc. MLT | Asst. Prof. | Clinical Biochemistry | <01 | |
| 7 | Ms. Kalaivani M | B.Sc. M.Sc. MLT M.Phil | Asst. Prof. | _ | <01 | _ |

11e. Health Information Management

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|--|--|-----------------|-------------------------------------|------------|--|
| 1 | Dr. Sabu K M MAHE00043 96 | BSc. M.App.Sc. (Medical Doccumentatio n) Ph.D | Professor | Health Information Management | 15 | 01 |
| 2 | Dr. Roopalekha Jathana P N MAHE0004745 | BSc. MS (MTDM) Ph.D | Professor | Health Information Management | 13 | |
| 3 | Dr. Rajesh Kumar Sinha MAHE0005031 | BSc. MS (MTDM) Ph.D. | Assoc. Prof. | Health Informatics | 11 | |



| 4 | Ms. Dola | B.Com. | Asst. | Health | 15 | |
|---|-------------|----------------|-----------|-------------|-----|--|
| | Saha | Dip. In | Prof. | Information | | |
| | MAHE00043 | Software | Selection | Management | | |
| | 75 | Programming | Grade | | | |
| | | & Applications | | | | |
| | | Medical | | | | |
| | | Transcriptions | | | | |
| | | MBA | | | | |
| 5 | Dr. Reshmi | MSc. | | Health | 09 | |
| | В | (Agriculture) | Assoc. | Information | | |
| | MAHE00064 | MSc. (HHIA) | Prof. | Management | | |
| | 02 | Ph.D | | | | |
| 6 | Ms. Susanna | BSc.HIA | Asst. | Health | <01 | |
| | Kurian | | lecturer | Information | | |
| | | | | Management | | |

11f. Optometry

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|------------------------|---------------------|-----------------|----------------|------------|--|
| 1 | Mr. Ramesh | B.Sc. | Assoc. | NA | | |
| | S Ve | (Optometry) | Prof. | | 02 | |
| | MAHE00108 | M.Phil. PhD | | | | |
| 2 | 45 | (Optometry) BSc. | Asst. | NA | 12 | |
| 2 | Ms. Jyothi Thomas | (Optometry) | Asst. Prof. | NA | 12 | |
| | MAHE00048 | MSc. | Selection | | | |
| | 37 | (Optometry) | Grade | | | |
| 3 | Mr. Chandan | BSc. | Asst. | NA | 08 | |
| | S | (Optometry) | Prof. | | | |
| | MAHE00062 | MSc. | Senior | | | |
| | 94 | (Optometry) | Scale | | | |
| 4 | Mr. Premjit | B Optometry | Asst. | NA | 06 | |
| | Bhakat | M Optometry | Prof. | | | |
| | MAHE00077 25 | | Senior Scale | | | |
| 5 | Mr. | BSc. | Asst. | NA | 06 | |
| 3 | Nijilsanker A | (Optometry) | Prof. | IVA | 00 | |
| | U | M Optometry | Senior | | | |
| | MAHE00078 | in optomous | Scale | | | |
| | 10 | | | | | |
| 6 | Mr. Avik | B.Optom | Asst. | NA | 05 | |
| | Ray | M.Optom | Prof. | | | |
| | MAHE00085 | | Senior | | | |
| | 38 | D. C. | Scale | 37.4 | 0.4 | |
| 7 | Ms. Krithica | B.Sc. | A ==4 | NA | 04 | |
| | S MAHEOO109 | (Optometry) | Asst. | | | |
| | MAHE00108 | Mphil. | Prof. | | | |



| | 11 | (Optometry) | Senior Scale | | | |
|----|--|-----------------------------------|-----------------------|----|----|--|
| 8 | Ms. Judy Jose | BSc. (Optometry) MSc. (Optometry) | Asst. Prof. | NA | 02 | |
| 9 | Ms. Preethi Naik | B.Sc. (Optometry | Assistant Lecturer | NA | 02 | |
| 10 | Mr. Avinash Prabhu MAHE00130 18 | B.Optom M.Optom | Asst. Prof. | NA | 01 | |

11g. Cardiovascular Technology

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|------------------------|---------------------|--------------------|----------------|------------|--|
| 1 | Mr. Umesh | BSc. | Asst. | NA | 06 | |
| | Pai M | MSc. (CVT) | Prof. Senior Scale | | | |
| 2 | Mr. | BSc. | Asst. | NA | 06 | |
| | Krishnanan | MSc.(CVT) | Prof. Senior | | | |
| | da Nayak | MSc.(Phy),MPhil | Scale | | | |
| 3 | Ms. Sridevi | BSc. | Asst. | NA | 05 | |
| | Prabhu | MSc. (CVT) | Prof. | | | |
| 4 | Ms. Vidya | BSc. | Asst. | NA | 05 | |
| | Nayak | MSc. (CVT) | Prof. | | | |

11h. Respiratory Therapy

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|------------------------|----------------|-------------|----------------|------------|--|
| 1 | Ms. Saumy | BRTT | Assoc. | NA | 10 | |
| | Johnson | | Prof. | | | |
| | MAHE0004 | MSc.(RT) | | | | |
| | 937 | | | | | |
| 2 | Mr. | BRTT | Asst. | NA | 09 | |
| | Abhishek V | | Prof. | | | |



| 3 | Vaidya MAHE0005 286 Mr. Ramesh Unnikrishna | B.Sc. (RT) M.Sc. (RT) | Asst. Prof. Senior | Adult Respiratory | 05 | |
|---|--|---|--------------------|------------------------------|----|--|
| | n MAHE000978 0 | Wilse. (ICI) | Scale | Care | | |
| 4 | Ms. Tisha Ann Skariah MAHE0011 423 | BSc. RT MSc. RT | Asst. Prof. | Neonatal & Paediatrics | 01 | |
| 5 | Mr. Geoffrey George Roy MAHE001160 8 | BSc. RT MSc. RT | Asst. Prof. | Neonatal & Paediatrics | 01 | |
| 6 | Mr. Heera Lal Mahto | BSc. RT MSc. RT | Asst. Prof. | Adult Respiratory Care | 02 | |
| 7 | Mr. Praveen Jacob John | Dip(RT)(Chri stian medical college) BSc.Psycholo gy(madras university) BSc.RT(mani pal) MSc.RT(mani pal) | Asst. Prof. | Adult Respiratory Care | 02 | |

11i. Medical Imaging Technology

| #. | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|----|------------------------|----------------|-------------|----------------|------------|--|
| 1 | Mr. Sushil | BSc. (MIT) | Asst. | NA | 09 | |
| | Yadav | MSc. (MIT) | Prof. | | | |
| | MAHE00063 | | Senior | | | |
| | 19 | | Scale | | | |
| 2 | Mr. Suresh S | B.Sc. (MIT) | Asst. | NA | 07 | |
| | MAHE0007893 | MSc. (MIT) | Prof. | | | |
| | | | Senior | | | |
| | | | Scale | | | |
| 3 | Mr. Rahul P | B.Sc. (MIT) | Asst. | NA | 06 | |
| | Kotian | MSc. (MIT) | Prof. | | | |
| | MAHE00084 | | Senior | | | |

EVALUATIVE REPORT OF THE DEPARTMENT



| | 97 | | Scale | | | |
|---|-------------|-------------|-------------|----|----|--|
| | | | | | | |
| 4 | Ms. | B.Sc. | Asst. | NA | 03 | |
| | Winniecia | Radiograpgy | Prof. | | | |
| | Dkhar | M.Sc. (MIT) | | | | |
| | MAHE00113 | | | | | |
| | 51 | | | | | |
| 5 | Ms. Dolly | B.Sc. (MIT) | Asst. Prof. | NA | 01 | |
| | Anil Sharma | MSc. (MIT) | | | | |
| | MAHE00129 | | | | | |
| | 76 | | | | | |

11j. Nephrology

| # | Name of the Teacher | Qualification s | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|---------------------------------------|--|-------------|----------------|------------|--|
| 1 | Ms. Veena N K MAHE00106 61 | BSc. (Botany, Zoology, Chemistry) Diploma in Dialysis Therapy M.Sc in RRT & DT | Asst. Prof. | NA | 03 | |
| 2 | Ms. Megha Nayak MAHE00106 62 | BSc. (Botany, Zoology, Chemistry) Diploma in Dialysis Therapy M.Sc in RRT & DT | Asst. Prof. | NA | 03 | |

11k. Clinical Psychology

| # | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|------------------------|----------------|-------------|----------------|------------|--|
|---|------------------------|----------------|-------------|----------------|------------|--|



| | T. | T | 1 | <u> </u> | 1 | |
|---|----------------|--------------|-----------|----------|-----|--|
| 1 | Dr. N Dinesh | B.Sc. | Assoc. | NA | 24 | |
| | MAHE00024 | (Zoology) | Prof. | | | |
| | 74 | MA | | | | |
| | | (Psychology) | | | | |
| | | M.Phil | | | | |
| | | (Medical & | | | | |
| | | Social | | | | |
| | | Psychology) | | | | |
| | | Ph.D | | | | |
| 2 | Dr. Johnson | BA | A aaaa | NA | 11 | |
| 2 | | | Assoc. | NA | 1.1 | |
| | Alex | (Psychology) | Prof. | | | |
| | MAHE00051 | MA | | | | |
| | 62 | (Psychology) | | | | |
| | | M.Phil | | | | |
| | | (Clinical | | | | |
| | | Psychology) | | | | |
| | | Ph.D | | | | |
| 3 | Ms. Sahana | BA | Asst. | NA | 11 | |
| | Madhyastha | (Psychology) | Prof. | | | |
| | MAHE00051 | MA | Selection | | | |
| | 45 | (Psychology) | Grade | | | |
| | | M.Phil | | | | |
| | | (Clinical | | | | |
| | | Psychology) | | | | |
| 4 | Dr. Sweta | BA Honors | Assoc. | NA | 06 | |
| | Rai | (Psychology) | Prof. | | | |
| | MAHE00805 | MA | 1101. | | | |
| | 4 | (Psychology) | | | | |
| | 7 | PGDCP | | | | |
| | | (Clinical | | | | |
| | | Psychology | | | | |
| | | Ph.D | | | | |
| | | | | | | |
| | | (Psychology | | | | |
| | | M.Phil | | | | |
| | | (Clinical | | | | |
| | D C 1 . | Psychology) | | 37.4 | 2.5 | |
| 5 | Dr. Sebastian | BA | Assoc. | NA | 05 | |
| | Padickapara | Psychology | Prof. | | | |
| | mbil | MA Applied | | | | |
| | MAHE00085 | Psychology | | | | |
| | 87 | MPhil | | | | |
| | | Clinical | | | | |
| | | Psychology | | | | |
| | | PhD Clinical | | | | |
| | | Psychology | | | | |
| 6 | Ms. Indu | BA | Asst. | NA | 04 | |
| | Toby | Psychology | Prof. | | | |
| | MAHE00104 | MA Applied | | | | |
| | 49 | Psychology | | | | |
| | | M.Phil | | | | |
| | | (Learning | | | | |
| | | Disability | | | | |
| | l . | Disconity | 1 | 1 | | |



| 7 | Ms. Nitha | M.Sc.(Applie | Asst. | NA | 03 | |
|----|----------------|--------------|-------------|----|-----|--|
| | Thomas | d Psychology | Prof. | | | |
| | MAHE00113 | M.Phil | | | | |
| | 90 | | | | | |
| 8 | Mr. Dan | BA | Asst. Prof. | NA | <01 | |
| | Isaac Pothiyil | Psychology | | | | |
| | MAHE00127 | MSc. | | | | |
| | 51 | Psychology | | | | |
| | | MPhil | | | | |
| | | Clinical | | | | |
| | | Psychology | | | | |
| 9 | Dr. Urvashi | BA (Honours) | Asst. Prof. | NA | <01 | |
| | Anand | Psychology | | | | |
| | MAHE00127 | MA Applied | | | | |
| | 81 | Psychology | | | | |
| | | MPhil | | | | |
| | | Clinical | | | | |
| | | Psychology | | | | |
| | | PhD Clinical | | | | |
| | | Psychology | | | | |
| 10 | Mr. Geo A | BA | Asst. Prof. | NA | <01 | |
| | Joseph | Psychology | | | | |
| | MAHE00130 | MA Applied | | | | |
| | 59 | Psychology | | | | |
| | | MPhil | | | | |
| | | Clinical | | | | |
| | | Psychology | | | | |

111. Nuclear Medicine

| Sl. No. | Name of the Teacher | Qualifications | Designation | Specialization | Experience | No. of PhD student guided for the last 4 years |
|------------|------------------------|----------------------|----------------|----------------|------------|--|
| 1 | Dr. Shivanand | B.Sc.(Zoolog | Asst. Prof. | NA | 06 | |
| | | y) M.S.a. (Zaalaa | | | | |
| | Bhushan | M.Sc.(Zoolog | Senior | | | |
| | MAHE00082 | y) | Scale | | | |
| | 98 | Ph.D(Zoology | | | | |
| 2 | Ms. | B.Sc. | Asst. | NA | 20 | |
| | Vasumathi | Dip. in Nucler | Prof. | | | |
| | MAHE00034 | Medicine | | | | |
| | 76 | Technology | | | | |
| | | M.Sc. | | | | |
| | | (Mathematics) | | | | |



| 3 | Ms. Sibi | B.Sc.(NMT) | Asst. | NA | 11 | |
|---|-----------|---------------|-------|----|----|--|
| | Oommen | Bridge Course | Prof. | | | |
| | MAHE00055 | (NMT) | | | | |
| | 12 | M.Sc.(NMT) | | | | |
| 4 | Ms. | B.Sc. NMT + | Asst. | NA | 02 | |
| | Ramandeep | DNMT | Prof. | | | |
| | Bhalla | M.Sc.(NMT) | | | | |
| | MAHE00119 | | | | | |
| | 39 | | | | | |

11m. Perfusion Technology

| # | Name of the Teacher | Qualifications | Designati on | Specialization | Experience | No. of PhD student guided for the last 4 years |
|---|------------------------|-----------------|-----------------|----------------|------------|--|
| 1 | Mr. B. Shivashankar | BSc. | Asst. Prof. | NA | 03 | |
| | Pai | | | | | |
| 2 | Dr. Kumud | B.H.M.S. | Asst. | NA | 02 | |
| | G Lonkar | PG Dip. In | Prof. | | | |
| | | Clinical | | | | |
| | | Research | | | | |
| | | M.Sc. Perfusion | | | | |
| | | Technology | | | | |

12. List of senior Visiting Fellows, Faculty members, Adjunct faculty members, Emeritus professors.

| # | Name of the faculty | Qualification | Year | University | Designation | Department |
|---|---------------------|---------------------------------|--------------|-----------------------|---------------------|------------------------|
| 1 | Mr M M Kuriakose | BA Diplomain | 1979 1991 | University of Kerala | Adjunct Visiting | Respiratory Therapy |
| | Kullakose | Respiratory | 1991 | NBRC, | Faculty | Пегару |
| | | Therapy | | USA | Č | |
| | | Associate Degree in Respiratory | | NBRC, | | |
| | | Therapy | | USA | | |
| 2 | Prof Vijay | BSc | June | University | Adjunct | Respiratory |
| | Deshpande | MSc | 1967 | of Bombay | Visiting Faculty | Therapy |
| | | | June | University | , | |
| | | Diplomain RT | 1971 | of Missouri | | |
| | | | 1972 | University of Chicago | | |



| 3 | Dr. Lalitha | B.Sc | - | Fatima | Visiting | Speech and |
|----|---------------------------|--------------------------------|--------------|-------------------------|---------------|-----------------------|
| | Raja | | | College, Madurai. | Faculty | Hearing |
| | | B.Ed. | | Annamalai | | |
| | | | | University | | |
| | | B.Ed. in Special Education | | Tamil Nadu Open | | |
| | | | | University | | |
| | | M.A. Linguistics | | Annamalai | | |
| | | M.A. | | University | | |
| | | Psychology | | Annamalai | | |
| | | Ph.D. in | | University | | |
| | | Linguistics | | Annamalai University | | |
| | | Cert. in. French, Cert. in. | | , | | |
| | | Sanskrit, P.G. | | | | |
| | | Diploma in Guidance and | | Annamalai University | | |
| | | Counseling | | | | |
| | | Diploma in MS | | CSC - | | |
| | | - Office | | Computer Education | | |
| | | | | Center | | |
| | | Diploma in Sanskrit, P.G. | | Annamalai | | |
| | | Diploma in Computational | | University | | |
| | | Linguistics | | | | |
| 4. | Prof | BABT, ELT | 1955 | Madras | Guest Faculty | Speech and |
| 3 | Ramanan Mr. Jay | Orthotic & | 2013 | University Father | Guest Faculty | Hearing Physiotherapy |
| | Krishnan | Prosthetic | 2015 | Muller | j | J 13 |
| | Swain | Engineer | | Medical College, | | |
| 4 | Ms. Laxmi | BPT and BPT | | Mangalore Retired | Guest Faculty | Physiotherapy |
| - | Bai | bridge | | Principal | Guest Faculty | т пумошетару |
| 5 | Mr. Kiran Challagundla | BPT & MPT | 2012 2014 | Hyderabad | Guest Faculty | Physiotherapy |
| 6. | Mr. Sri Ram | MPT | 2012 | Mumbai | Guest Faculty | Physiotherapy |
| | Bhat | | | | | |



| 7 | Dr. Deepak | MPT | 2012 | Guest Faculty | Physiotherapy |
|---|------------|-----|------|---------------|---------------|
| | Kumar | | | | |
| | | | | | |

13. Percentage of classes taken by temporary faculty members – programme-wise information

NA

14. Programme-wise Student Teacher ratio

| Sl. | Department | Teacher |
|-----|---|---------------|
| No. | | Student Ratio |
| 1. | Physiotherapy | 1:9 |
| 2. | Occupational Therapy | 1:10 |
| 3. | Speech and Hearing | 1:8 |
| 4. | Respiratory Therapy | 1:15 |
| 5. | Optometry | 1:9 |
| 6. | Medical Laboratory Technology | 1:16 |
| 7. | Medical Imaging Technology | 1:25 |
| 8. | Nuclear Medicine | 1:13 |
| 9. | Health Information Management | 1:8 |
| 10. | Cardiovascular Technology | 1:20 |
| 11. | Clinical Psychology | 1:4 |
| 12. | Renal Replacement Therapy & Dialysis Technology | 1:19 |
| 13. | Perfusion Technology | 1:18 |

14. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Sanctioned: - 130 Filled: - 125

15. Research thrust areas recognized by funding agencies:

Physiotherapy, Speech and Hearing, Health Information Management, Clinical Psychology

16. Number of faculty with ongoing projects from a) National b) Total grants received. Give the names of the funding agencies and grants received projectwise. –

a. National: Eight (8), International: Nil

b. Total Grant Received

| Principal Investigator | Remitter Name | Total-Received(Rs) |
|-------------------------------|-----------------|--------------------|
| Dr. Arun Maiyya | ICMR, New Delhi | 221,519.00 |
| Ms. B Reshmi | ICMR, New Delhi | 531,557.00 |
| Dr. Bhamini K Rao | ICMR, New Delhi | 151,644.00 |
| Mr. Johnson Alex | ICMR, New Delhi | 476,638.00 |



| Dr. Gopeekrishnan | Department of Science and | |
|-------------------------------|----------------------------------|-------------------|
| Dr. Gopeekrisiiiaii | Technology, New Delhi | 7 3,17,200.00 |
| Dr. Shivani Tiwari | ICMR | 23,44,316.00 |
| Dr. Venkataraja Aithal U | BoP MU-Philips | 10000.00 |
| Dr. Veena K D | ICSSR | 5,00,000.00 |
| | Grand challenges, Canada, McGill | |
| Dr. John Solomon | University, Canada | 17,96,881.00 |
| Mr. Abraham Samuel | | |
| Babu | | |
| (Co principal investigator) | ICMR | Rs. 59,29,000 |
| Mr. Kalyan | Manipal university seed money | 25,000.00 |
| Dr. Manikandan | DST-IDP | Rs. 11,75,200.00 |
| Total by December 2014 | | Rs. 20,47,8955.00 |

17. Inter-institutional collaborative projects and grants received

a. Indian collaboration

| ,, | Name of the | Name of | Principal | Amount | Duration | Amount Re | ceived | Total |
|----|---|------------------------|-------------------------------|----------|-------------------|-----------|---------|--------------------|
| # | Research Project | the donor / grantor | Investigator | approved | of the Project | Operating | Capital | grants received |
| IC | MR Project: | | | | | | | |
| 1 | Photostimulatory and Photoinhibitory Effect of Low Energy Laser Therapy in diabetic Wound Healing Dynamics - A Preclinical Study | ICMR, New Delhi | Dr Arun Maiyya | 1167896 | 3 years | 1162196 | 5700 | 1167896 |
| 2 | Improving rehabilitation services through evidence based practice assessing neurological recovery | Mc Gill Universiry | Dr. John Solomon/ Mindy | | 1 ½ years | | | 16,81,200 |
| 2 | Acceptability andeffectiveness of two community based health insurance schemes in Karnataka, India | ICMR, New Delhi | Ms B Reshmi | 1282200 | 2 years | 839945 | 57362 | 897307 |
| 3 | Prevalence and Physiotherapy Intervention for pelvic floor dysfunction in women of Udupi Taluk | ICMR, New Delhi | Dr Bhamini K Rao | 1487199 | 3 years | 151644 | - | 151644 |
| 4 | Development of learning strategy | ICMR, New Delhi | Mr Johnson Alex | 1862571 | 2 years | 416638 | 60000 | 476638 |

EVALUATIVE REPORT OF THE DEPARTMENT



| | Inventory and | | | | | | | |
|--------|-----------------------------------|--------------------------|---------------------|---------------|----------|----------|----------|------------|
| | Cognitive | | | | | | | |
| | Behavior Therapy | | | | | | | |
| | (CBT) based stress | | | | | | | |
| | Management Intervention | | | | | | | |
| DST | Project: | | | | | <u> </u> | | |
| | | · | | | 1 | | | |
| | Validation of the | | | | | | | |
| | Physiological Cost Index by | | | | | | | |
| | comparison to | Department | | | | | | |
| | oxygen | of Science | Dr Kavitha | | | | | |
| 5 | consumption and | & | Raja | 2650000 | 3 years | 1237638 | 1412362 | 2650000 |
| | its potential as an | Technology, | raju | | | | | |
| | outcome measure of ambulation | New Delhi | | | | | | |
| | among children | | | | | | | |
| | with cerebral palsy | | | | | | | |
| | The Central | Department | | | | | | |
| | alexias and | of Science | Dr | 2700000 | | 000046 | 110076 | 0.46.400 |
| 6 | agraphias in semi | & Ta alama la ana | Gopeekrishnan | 2700000 | 3 years | 829348 | 113052 | 942400 |
| | syllabic orthography | Technology, New Delhi | 1 | | | | | |
| | Reading related | Department | | | | | | |
| | eye movements in | of Science | D. | | | | | |
| 7 | semi syllabic and | & | Dr Gopeekrishnan | 4617200 | 3 years | 204000 | 3211000 | 3415000 |
| | alphabetic | Technology, | Gopeekrisiman | | | | | |
| **** | orthographies | New Delhi | | | | | | |
| WH | O Grant Integrated | | | | | | | |
| | community Based | | | | | | | |
| | Rehabilitation for | | | | | | | |
| | people affected by | | | | | | | |
| 8 | leprocy,Filariasis | WHO, New | Dr Kavitha | 438660 | 6 months | 438660 | _ | 438660 |
| | and other locomotor | Delhi | Raja | | | | | |
| | disabilities in | | | | | | | |
| | Udupi District | | | | | | | |
| | | | | | | | | |
| NC | ERT Grant | I | I | | I | 1 | T | T |
| | Development of an assessment tool | | | | | | | |
| | and integrated | | | | | | | |
| | management | NCEDT | Dr Kavitha | | | | | |
| 9 | protocol for | NCERT, New Delhi | Raja | 353220 | 2 years | 249700 | 4200 | 253900 |
| | children with | The W Benn | Raja | | | | | |
| | developmental coordination | | | | | | | |
| | disorder | | | | | | | |
| | Grand Total | | | 16558946 | | 5529769 | 4863676 | 12,074,645 |
| ICS | SR Grant | | | | | 1 | | , , |
| | Daniel (| | | | <u> </u> | <u> </u> | <u> </u> | Τ |
| | Development | | | | | | | |
| | and | | | | | | | |
| | standarisation | 1000- | | # 0000 | | 2.50000 | 4.50000 | 25000 |
| 10 | of phonological | ICSSR | Dr. Veena KD | 500000 | 2 years | 250000 | 150000 | 350000 |
| | process | | | | | | | |
| | analysis test in | | | | | | | |
| | Tulu | | | | | | | |
| A TO 1 | F, Mysore | | | | | | | |



| Profiling anxiety- depressive and personality correlates of individuals with Tinnitus | ARF, Mysore | Dr. Venkataraja Aithal U | 3,71,000 | 12 months | 50,000 | Details unavailable | 3,71,000 |
|---|----------------|--------------------------------|----------|--------------|---------|------------------------|------------|
| Grand Total | | | 17429946 | | 5829769 | 5013676 | 15,945,645 |

b. International

UKIERI grant received from British Council in the field of collaborative education and research 2012. Total grant amount was 2 Lakh 65 Thousand.

17. Departmental projects funded by, ICMR, DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, UAB-NIH USA, UKIERI. Total grants received.

| | | | | | Durat | | Year | |
|---|--|-----------------------------------|-------------------------------|------------------------|------------------------------|---------|------|------|
| # | Name of the Research Project | Name of the donor / grantor | Principal Investiga tor | Amount approve d | ion of the Proje ct | 2012 | 2013 | 2014 |
| 1 | Photostimulatory & Photoinhibitory Effect of Low Energy Laser Therapy in diabetic Wound Healing Dynamics - A Preclinical Study | ICMR, New Delhi | Dr. Arun Maiya G | 1167896 | 3 years | 221519 | | |
| 2 | Acceptability & Effectiveness of two community based health insurance schemes in karnataka, India | ICMR, New Delhi | Ms B Reshmi | 1282200 | 2 years | 531757 | | |
| 3 | Prevalence and Physiotherapy Intervention for pelvic floor dysfunction in women of Udupi Taluk | ICMR, New Delhi | Dr Bhamini K Rao | 1487199 | 3 years | 151644 | | |
| 4 | Development of learnng strategy Inventory & Cognitive Behavior Therapy (CBT) based stress Management Intervention | ICMR, New Delhi | Mr Johnson Alex | 1862571 | 2 years | 476,638 | | |
| 5 | Validation of the Physiological Cost Index by camparison to oxygen consumption and its potential as on outcome measure of ambulation in children with cerebral palsy | DST, New Delhi | Dr Kavitha Raja | 2650000 | 3 years | | | |
| 6 | The Central alexias and agraphias in semi syllabic orthography | DST, New Delhi | Dr Gopeekri shnan | 2700000 | 3 years | | | |

EVALUATIVE REPORT OF THE DEPARTMENT



| 7 | Reading related eye movements in semi syllabic and alphabatic orthographies | DST, New Delhi | Dr Gopeekri shnan | 4617200 | 3 years | 341500 0 | | |
|-----|---|---------------------|--------------------------|----------|-----------------|-------------|-------------------------------------|---------------------------------|
| 8 | Integrated community Based Rehabilitation for people affected by leprocy, Filariasis and other locomotor disabilities in Udupi District | WHO, New Delhi | Dr Kavitha Raja | 438660 | 6 month s | | | |
| 9 | Development of an assessment tool and integrated management protocol for children with developmental coordination disorder | NCERT, New Delhi | Dr Kavitha Raja | 353220 | 2 years | 253900 | | |
| 1 0 | Design and Development of Portable Pain Relieving Instrument | DST, New Delhi | Dr. Arun Maiya G | 2735200 | 2 years | 174000 0 | | |
| | Unraveling the overlapping features of Autism Spectrum Disorders and Specific Language Impairment | ICMR | Dr. Shivani Tiwari | 23,44,31 | 3 years | | | 5,22,290 received in 2014 |
| | Development and standarisation of phonological process analysis test in Tulu | ICSSR | Dr. Veena K D | 500000 | years 2 | | 3,50,00 0 received in 2013 | |
| | Total | | | | | | 3,50,000 | 5,22,290 |

18. Research facility/ center with

a. State recognition: NIL

b. National recognition: The audiology lab of Department of Speech and Hearing, SOAHS is recognized by Departmentof Science and Technology and ICMR. Department of Speech and Hearing rated as outstanding performance by Rehabilitation Council of India

Department of Clinical Psychology is recognized by Rehabilitation Council of India (RCI)

c. International recognition:

19. Special research laboratories sponsored by/ created by industry or corporate bodies

Not Applicable

20. Research output in last three years



| | | 2012 | 2013 | 2014 |
|-------------------|------------------------|------|------|------|
| Completed funded | research projects | 09 | 01 | 05 |
| Completed non-fu | nded research projects | 00 | 00 | 01 |
| Completed PhD re | esearch projects | 04 | 02 | 06 |
| Completed PG res | earch projects | 81 | 76 | 85 |
| Completed UG res | search projects | 54 | 35 | 62 |
| Publications | National | 28 | 41 | 33 |
| Publications | International | 93 | 35 | 26 |
| Books | | 03 | 00 | 00 |
| Chapters in books | | 00 | 00 | 01 |
| Conference | National | 49 | 22 | 26 |
| presentations | International | 21 | 22 | 13 |

22A. Completed Funded Research Projects

Department of Physiotherapy

Year 2012 (05 numbers)

- 1. Dr. G Arun Maiya, Development of pain relieving instrument, DST
- 2. Mr. Abraham Samuel Babu, Pulmonary Hypertension Manual, Tom Lantos innovation in community service award, Pulmonary Hypertension Assocation, USA
- 3. Dr.Kavitha Raja, Effect of an exercise programme on neural plasticity in children with CP, DST
- 4. Dr. Kavitha Raja, Standards of care for individuals with CP, ICMR
- 5. Mr. N. Manikandan, Designing of Sensor Based Sole, DST

Year 2013 (01 number)

1. Dr. John Solomon, Virtual reality stroke rehabilitation, Grand Challenges, Canada

Year 2014 (03 numbers)

- 1. Dr. John Solomon, Virtual rehabilitation training for Balance in Adults, DST
- 2. Mr. Abraham Samuel Babu, Prevalence of PAD and interrelated risk factor in Udupi district, ICMR
- 3. Mr. Kalyam Chakravarthy, Seed money, Manipal University, Development of Chest expansion analyser

Dept. of Speech & Hearing

Year 2012 (02 Numbers)

- 1. Ms. Shivani Tiwari Reading Acquisition in Children Learning Two Distinct Orthographies Malayalam and English AIISH, Mysore
- 2. Dr.Aithal U.V Development of a computer-based aphasia therapy module in Kannada to enhance auditory verbal comprehension BoP MU-Philips.

Year 2014 (02 Numbers)

- 1. Dr. Usha Devadas- Prevalence and risk factors in primary school teachers of one district of Karnataka, AIISH, Mysore
- 2. Dr. Aithal U. V Profiling anxiety-depressive and personality correlates of individuals with Tinnitus, AIISH, Mysore

Dept of Nuclear Medicine



Year 2012 (01 Numbers)

1. Dr Shivanand Bhushan, "To develop the Prototype for Radioactive Anatomical Land Marker" SPICE grant of VGST, DST Govt Of Karnataka

Dept of Clinical Psychology

Year 2012 (01)

1. Dr. Johnson Alex, "Development of Learning Strategy Inventory and CBT based Stress Management Intervention". ICMR, New Delhi.

22B. Completed Non-Funded Projects

Dept. of Medical Imaging Technology

Year 2014 (01 Number)

1. Radiological age & Sex Determination from Sternum

22C. Completed Ph.D. Research Projects

Department of Physiotherapy

Year 2012 (01 Numbers)

1. Dr. Ajay Prasad Gautam- Title "Effect of Low Level Helium Neon (He-Ne) Laser Therapy in the prevention and treatment of radiation/chemoradiotherapy induced oral mucositis in head and neck cancer patients- A Randonmised Controlled Trial".

Year 2013 (02 numbers)

- **1. Dr. Fiddy Davis** Title: "Does response relationship between exercise intensity and C Reactive protein in healthy individuals"
- 2. Dr. Snehil Dixit Title: "Effects of aerobic exercise training on Diabetic peripheral neuropathy A Randomised controlled trial"

Year 2014 (02 numbers)

- **1. Dr. Ravi Shankar Reddy**: Title: "Effectiveness of Kinesthetic rehabilitation on proprioception in patients with Cervical Spondylosis"
- **2. Dr. Manikandan N**: Title: "Development & validation of a mobility disability scale for Community Dwelling individuals"

Dept. of Speech & Hearing

Year 2012(02 Numbers)

- 1. Ms. Usha Devadas- Prevalence and nature of voice problems in call center operators
- **2. Mr. Gopee Krishnan** An appraisal of lexical retrieval skills in subjects with right hemisphere damage

Year 2014 (01 Number)

1. Ms. Sunila John - Developmental changes in verbal fluency output of Malayalam speaking children



Dept of Occupational Therapy

Year 2012 (01 Number)

1. Sebestina Anita D'souza Title: the effectiveness of postural training under dual task conditions with graded sensory context in older adults at risk for fall.

Year 2014 (02 Numbers)

- 1. Chavan Shashidhar Rao awarded PhD degree from Manipal University for his research work "Adaptive Responses to Swing in Normal Children and Their Cross-Validation" on 28th January, 2014.
- 2. Shovan Saha awarded PhD degree from Manipal University for his research work "Outcomes of Assistive Technology in Indian Population with Locomotors Disability" on April 19th, 2014.

Department of Medical Laboratory technology:

Year 2014: (01 number)

1. Saleena Ummer Velladath. Title: Evaluation of biomarkers for the early diagnosis of Acute Kidney Injury due Cisplatin chemotherapy

22D. Completed PG Research Projects

Department of Physiotherapy

Year 2012 (18 Numbers)

- 1. Effects of manual hyperinflation and suctioning on mechanically ventilated patients with ards- A cross over study.
- 2. Metabolic demands &costs in various modes of aerobic exercises across various intensities.
- 3. Exercise training and vagal modulation/Dose response relationship between HRV exercise intensity.
- 4. Functional status index in patients with coronary artery diseases cross sectional study. / Functional status following coronary Artery bypass surgery.
- 5. Effects of epicardial fat thickness on heart function in sedentary adult population/Relationship/Relationship of epicardial odipose tissue thickness with post exercise cardiac output.
- 6. Normative values of figure of 8 walk test in geriatrics population./Predictive validity, concurrent validity and responsiveness of Figure-8 walk test in older adults.
- 7. Correlation of foot pressure with lower quadrant Dysfunction in sewing machine operators/ Prevalence of Lower Quadrant Dysfunction in serving machine operators and the effect of pedaling pressure on lower Quadrant Dysfunction.
- 8. Trunk muscle activation during functional activities of the extremities in stroke patients.
- 9. Effects on transcutaneous electrical nerve stimulation and Functional Electrical stimulation on lower limb spasticity in patients with spinal lord injury- A randomized cross-over trial/comparison of TENS (Infrastructure Electrical Nerve Stimulation) and FES (Functional Electrical Stimulation) on lower limb spaticity in patients with spinal card injury.
- 10. Effects of dual task training on balance and gait in patients with stoke/ Effect of dual-task training on postural control & balance in stroke patients-A randomized controlled trial.

EVALUATIVE REPORT OF THE DEPARTMENT



- 11. Effects of seat surface on reaching in children with spastic diplegia/ Influence of seat surface on Upper limb function in children with spastic diplegic cerebral palsy.
- 12. Effects of prolonged standing on tone, proprioception and gait in cerebral play children/ Effects of single session standing on sustenance of change in muscle tone & on proprioception in spastic cerebral palsy.
- 13. Range of motion and strength profiles in asymptomatic recreational overhead athletes.
- 14. Effects of core muscle activation on balance.
- 15. Development of an assessment format for lumber spine.
- 16. Effects of upper limb neural tissue mobilization on vibration perception threshold with type ii diabetes mellitus/ Mechanosensitivity of upper extremity during ULNTI in individual with Type II Diabetics mellitus –A matched ease control study.
- 17. Exercise testing of pre-school children using the Bruce treadmill protocol/ Exercise testing in children with Bruce treadmill protocol in children 8-14 years.
- 18. Levels of physical fitness and health consciousness amongest female health care students a cross sectional study/Prevalence of obesity and Levels of physical activity amongst female health professional students of Manipal University A cross sectional survey.

Year 2013 (20 Numbers)

- 1. Effect of Aerobic Exercise Training on Lipid Profile and Homocysteine in Coronary Artery Disease
- 2. Body Mass Index, Waist Circumference and Waist to Height Ratio as Predictors of Cardiovascular Disease Risk
- 3. Heart Rate Variability in Young Adults: Relations to Adiposity, Physical Activity and Exercise Capacity
- 4. Influence of Video Based Education on Self-Efficacy in Post Pulmonary Surgery
- 5. Measurement of Muscle strength with Dynamometer in Intensive Care Unit
- 6. Work Ability Index Among Construction Workers
- 7. Lifting Analysis Using High Definition Web Camera and Standard Definition Digital Camera
- 8. Stroop Interference Effect and Walking Speed in Persons with and Without Dementia
- 9. Analysis of Balance and Function in Different Peripheral Vestibular Disorders
- 10. Influence of post exercise Fatigue on Postural Sway in Children with Cerebral Palsy
- 11. Functional Status and Factors Influencing Functional outcome in Patients with Stroke
- 12. Influence of Optic Flow Guided Treadmill Walking on Gait in Children
- 13. Influence of Posterior Leaf Spring Ankle Foot Orthosis on Balance and Gait Parameters in Hemiparetic Patients
- 14. Effect of Box Kinect Games Training on Lower Limb Reaction Time in Patients with Hemiparesis
- 15. Effect of Sub Occipital Muscle Stretching in Forward Head Posture
- 16. Pragmatic Rehabilitation Program in Participants with Shoulder Impingement Syndrome: A Case Series
- 17. Relationship Between Core Endurance and Low Back Pain in Recreational Athletes
- 18. Effect of Kinesio Taping Versus Athletic Taping on Pain and Muscle Performance in Patients with Lateral Epicondylalgia



- 19. Effect of Low intensity Aerobic Exercise Training on Glycemic Control in Gestational Diabetes Mellitus
- 20. Validity of Ages and Stages Questionnaire with Test of Infant Motor Performance to Detect Developmental Delay Among Infants At 2 and 4 Months of Age

Year 2014 (18 numbers)

- 1. Effect of individualized home based exercises on quality of life of ICU survivors
- 2. Heart rate and blood pressure response to incremental exercise in Smokers and non-smokers
- 3. Gait parameters, balance and risk of falls in COPD: A cross sectional study
- 4. Correlation of physical activity level with bone mineral density, cardio-respiratory fitness and body composition in post-menopausal women
- 5. Physical activity measurement using accelerometer in Phase I cardiac rehabilitation
- 6. Effect of Kinect based training on trunk control in patients with stroke
- 7. Influence of theraband application on kinematics of Gait in patients with stroke
- 8. Effect of Kinect based virtual reality game training on balance and function in persons with unilateral vestibular hypofunction
- 9. Effect of functional electrical stimulation on standing posture in children with spastic diplegia.
- 10. Eye hand coordination, reaction time and dynamic balance in children with and without karate training
- 11. Effect of thoracic spine manipulation on shoulder pain range of motion and function in adhesive capsulitis
- 12. Effectiveness of muscle energy techniques (MET) on range of motion and pain in individuals with acute elbow stiffness
- 13. Relationship between core stability and athletic performance measures in collegiate athletes
- 14. Prevalence of sciatic nerve dysfunction in collegiate athletes with hamstring tightness in Manipal university
- 15. Immediate effect of heat and cold. Application on isometric grip strength in healthy individuals
- 16. Single and dual task activity on gait variables among older adults
- 17. Effect of antenatal exercises on the Birthing experience and coping strategies in the immediate postpartum phase
- 18. Neurophysiological facilitation on respiratory parameters neonates with respiratory problems in NICU

Dept. of Medical Laboratory Technology

Year 2012 (02 Numbers)

- 1. Evaluation of urinary Gamma-glutamyl transpetidase in patients with acute febrile illness
- 2. Comparative study of hematological and biochemical parameters in P.vivax and P. falciparum malaria patients

Year 2013 (03 Numbers)

- 1. The proportion of kidney injury in post cardiac surgery A comparison of eGFR with AKIN criteria
- 2. Anemia in Diabetic patients with nephropathy
- 3. Risk factors and outcome of Acute Kidney Injury in post cardiac surgery patients
- 4. Anemia in chronic hemodialysis nephropathy

Year 2014 (01)



1. The proportion of acute kidney injury in critically ill patients in a tertiary care center.

Dept. of Clinical Psychology

Year 2012 (10 Numbers)

- 1. Rumination, Co-rumination and Mindfulness in Recurrent Depressive Disorder and Dysthymia- Aparna S Menon
- 2. Sexual Schema, Dysfunctional Sexual Belief and Sexual Self Concept in Erectile Dysfunction- Ansha Patel
- 3. Association Between Functional Status of Children With Cerebral Palsy and Caregivers Perception and Burden An Exploratory Study- Pallavi Tomar
- 4. Body Image Disturbance and Illness Cognition in Relation to Health Cognitions in Acne Vulgaris- Gayathri Mammen
- 5. Temperamental Traits and Digit Ratio as Predictors of Academic Performance- Syam K R
- 6. Neuropsychological Correlates of Threat Perception in Social Anxiety Disorder-Anjali C Thomas
- 7. Influence of Stage and Treatment on the Psychological Sequelae in Cancer Patients-Aiswarya Wilson
- 8. Safety Behaviours as Modulated by Post Event Processing and Worry in a Sample of Individuals with Social Phobia and a Non Clinical Sample-Suchitra Banerjee
- 9. Erectile Dysfunction and Marital Quality of Life among Chronic Obstructive Pulmonary Disease (COPD)- Sinoj M T
- 10. Modulatory Influence of early Maladaptive Schemas in the Manifestation of Somatic and Depressive Psychopathology in Relation to Life events- Sweta Bothra

Year 2013 (08 Numbers)

- 1. The impact of Video/Internet games on the Self-Regulation of Adolescents modulated by their temperament. Ms. Dharani Devi
- 2. Influence of Attachment Styles and Self-Regulation on smoking among college students. Ms. Sharine Jacob Kuruvely
- 3. Dysfunctional Attitudes ans sociotropy autonomy in relation to the caourse of Bipolar Affective Disorder Ms. Poornima Mahindru
- 4. Executive functions and its correlation with performance on Object Sorting Test in patients with Schizophrenia as compared to healthy subjects. Ms. Sahithya B R
- 5. Relationship of parental responses to pain catastrophisation, pain intensity and functional limitations in children with functional pain. Mr. Jim Vargese
- 6. Influence of perceived parenting styles and early mandaptive schemas on the body esteem among young women. Ms. Mrudula Mathew
- 7. The efficacy of mindfulness based stress reduction program in prehypertension: A Randomized control trial. Lahti Shruthi Deepak
- 8. Influence of Parenting Style of working mothers and temperament on behavioral problems among school children. Shwetha Jha

Year 2014 (07 Numbers)

- 1. An Explorator Study on Developmental Psychopathology problems among Legg-Calve-Perthes' Disease Ms. Nisha John
- 2. Relationship of illness Representation, Health Anxiety and Perfectionism with Adherence to medications in type 2 Diabetes Patients Mr. Sudeep P. K

EVALUATIVE REPORT OF THE DEPARTMENT



- 3. Influence of Resilence and Optimism on Relapse and Perceived Stigma in Patients with Psoriasis Ms. Aman Gouri
- 4. Comparison of Neuropsychological Correlates of emotional threat Perception in Schizophrenia versus Bipolar Disorder Ms. Rekha P
- 5. Association of Pre Academic skills and problem Behaviours in Kindergarten Children Ms. Amritha Mohan
- 6. Influence of Mindfulness Training on Clinical and Biochemical Correlates of attention deficit Hyperactivity Disorder Mr. Mahesh M. M.
- 7. Relationship between preferred Learning Style, Leaning and Memory in Undergraduate Health Science Students Ms. Meenakshi Moorjani

Department of Health Information Management

Year 2012 (07 Numbers)

- 1. Development of Simulated RIS Module using Clearcanvas Platform
- 2. Cancer Patient Care Givers Perceptions of Healt Information and Patient Care at KIMS cancer center, Hyderabad
- 3. Impact of Hospital Information System on Healthcare Professionals at Tertiary care center
- 4. Evaluation and Development of an effective antibiotic policy in Prince Ali Khan Hospital, Mumbai
- 5. Assess the quality of life of nurses
- 6. Scope of E-codes in Trauma Documentation
- 7. Knowledge, Practice and Attitude towards SOP amongst non-clinical professionals

Year 2013 (04 numbers)

- 1. Analysis of bed turnover time and devising a procedure for reducing bed turn over time.
- 2. Awareness, practice, attitude and knowledge towards informed consent for healthcare professionals.
- 3. Hazard identification and risk analysis
- 4. An assessment of adherence to safety protocol in the operating room.

Year 2014 (06 numbers)

- 1. Perception of mHealth among doctors
- 2. Attitude of Ayurveda Doctors about Health Information Technology
- 3. Perception and Knowledge about infection control practices among nurses
- 4. A study to screen the completeness of initial assessment of inpatient
- 5. Patient satisfaction of VAS insurance scheme
- 6. Practice of health information system among PHC staff

Dept. of Speech & Hearing

Year 2012 (23 Numbers)

- 1. The importance of temporal envelope and fine structure cues in identifying gender using simulated cochlear implant processing strategies on normals
- 2. Auditory processing abilities in amateur music learners
- 3. Knowledge and attitude of pediatric hearing impairment among medical interns and general physicians in Udupi taluk
- 4. Assessment of middle ear function in two different ethnic population using Immitance measures a comparative study



- 5. Latency intensity function of speech evoked auditory brainstem responses in individuals with moderate sensorineural hearing loss
- 6. Neural encoding of speech at the level of brainstem in hearing aid users
- 7. Knowledge, attitude and practices among mainstream primary school teachers of selected schools of Kottayam district of Kerala towards auditory processing disorders in children
- 8. Latency intensity function of speech evoked auditory brainstem responses in normal hearing population
- 9. Translation of 'tinnitus handicap inventory' in Kannada language
- 10. Maturation of P1 response in pediatric hearing aid user
- 11. Comparison of performance of individuals with sloping sensorineural hearing loss in perception of redundant and non redundant speech material using frequency transposition and conventional amplification
- 12. Voice problems in primary school teachers: prevalence, associated risk factors and symptoms
- 13. Effect of phonological awareness training on auditory processing in poor readers
- 14. Outcome of awareness training on feeding strategies in parents of cerebral palsy children
- 15. Development of computer based therapy module in Kannada to enhance auditory verbal comprehension of persons with aphasia
- 16. Comparison of communication acts and functions in typically developing children and children with autism spectrum disorders
- 17. Efficacy of vocal awareness education in school teachers
- 18. Phonological development in Tulu Kannada sequential bilinguals children between 4 to 6 years
- 19. Prevalence of voice problems in school children of age range 5-12 years in Manipal and Udupi towns
- 20. Time extended verbal fluency in Konkani English bilinguals
- 21. Normative data for MSP (Motor Speech Profile) in Kannada speaking adults
- 22. Vocal loading in dubbing artist: a preliminary study
- 23. Clustering and switching processes of verbal fluency in Kannada English bilinguals

Year 2013 (22 Numbers)

- 1. Measurement of public attitudes towards stuttering in Hindi speaking population
- 2. Tympanometric measures in infants using high frequency probe tones
- 3. Communication profile for hearing impaired population in Indian context
- 4. Subcortical Processing of Speech in the presence of background noise by using speech evoked Auditory Brainstem Responses in normal individuals
- 5. Understanding of speech, spatial and quality of hearing in older adults: a questionnaire method
- 6. General physicians knowledge, attitude, and practice to hearing rehabilitation in elderly people
- 7. Latency Intensity function for speech evoked late latency responses in normal hearing individuals
- 8. High pitch phonation As a method of clinical evaluation of voice in trained singers A preliminary study
- 9. Identifying speaker from disguised speech using aural perception and Mel Frequency Cepstral coefficient
- 10. Rate of speech in typically developing Malayalam Speaking children between 5 7 years
- 11. Rate of speech in 3-5 years typically developing Malayalam speaking children
- 12. Spelling development in Malayalam alphasyllabary
- 13. Efficacy of vocal function exercise in school teachers



- 14. Comparison of Narrative skills in typically developing (TD) children and children with cerebral palsy (CP)in Malayalam
- 15. Prevalence and influencing risk factors of voice problems in priests
- 16. Developmental changes in Fo of pre adolescent children in Indian population
- 17. Measurement of knowledge and attitude towards stuttering using POSHA S in Udupi district
- 18. Comparing the outcome of perceptual and acoustic analysis of speech among identical speakers
- 19. Emergence of morphological markers in Malayalam English sequential bilingual children
- 20. Spelling development in Hindi alphasyllabary
- 21. Adaptation of Stroke Aphasia Quality of Life (SAQOL 39) in Hindi Scale
- 22. Adaptation of Stroke Aphasia Quality of Life (SAQOL 39) in Malayalam Scale

Year 2014 (23 Numbers)

- 1. Effect of Literacy on P300 & MMN
- 2. Short term effects of amplification on working memory in the elderly
- 3. Professional quality of life in audiologist & speech language pathologist working in India
- 4. Impact of tinnitus in Hindi speaking population
- 5. Awareness attitudes and stigmas attached towards hearing aids by hearing impaired population
- 6. Adaptation of tinnitus handicap inventory in Malayalam language
- 7. Measuring satisfaction with amplification in kannada speaking population : A Questionnaire method
- 8. Acoustic change complex through channel & channel free hearing aids
- 9. Compilation and Validation of a short version of Bilingual Aphasia Test (BAT) (PART B) in Malayalam
- 10. Accuracy of perceptual evaluation of perturbation measures in synthesized voice by qualified speech language pathologists
- 11. Prosthetic aspects & quality of life in Indian Tracheo Oesphageal` speakers
- 12. A Comparative study of vocal characteristics between normally aged males and dysarthrophonia
- 13. Verbal Fluency in Kannada English Bilingual Adults : effects of language proficiency, usage and age of L2 acquisition
- 14. Disfluencies in typically development Bengali speaking children between 3 to 8 years
- 15. Adaptation and Validation of MacArthur Communicative Developmental Inventory (MCDI) Part 1 Words and gestures in Kannada
- 16. Development of Prime Target Stimulus material (prime-target) for visual confrontation naming task
- 17. To adapt and validate English version of Pediatric Voice Handicap Index into Malayalam Language
- 18. Development of video modeling material to improve socio-communicative skills
- 19. Adaptation and Validation of MacArthur Communicative Developmental Inventory (MCDI) Part 1 Words and gestures in Malayalam
- 20. Rate of speech in konkani speaking adults of Udupi District
- 21. Speech based gender identification Pre adolescents
- 22. A Comparison of literacy measures in good and poor readers of Malayalam Alphasyllabary
- 23. Comparison of types and frequency of occurance Phonological process in Kannada speaking down's syndrome and normal children



Dept of Nuclear Medicine

Year 2012 (05 Numbers)

- 1. Preparation and Quality control of Radiolabelled Meals used for Gastric Emptying Studies.
- 2. Comparative Study of GFR calculation Using Single Plasma Technique and Gamma Camera based Technique.
- 3. Importance of Peritoneal Cavity Scintigraphy for Peritoneal Dialysis Patients Comparative study of Tc-99m Thyroid uptake Measured with Scintillation Pro and Gamma Camera.
- 4. Intervention of Six Minute Walk Test (6MWT) exercise on 99mTc-Technitium labeled Methylene Diphosphonate Musculoskeletal imaging in Healthy human.
- 5. Evaluation of binding efficiency of Tc99m labeled to red blood cells in the presence of Cocoa.

Year 2013 (04 Numbers)

- 1. An investigative study on altered biodistrinution of Tc-99m Bone seeking radiopharmaceuticals.
- 2. Gastric Emptying time for solids in normal South Indian population.
- 3. Effect of pH on the stability of radiolabelled solid meal used for gastric emptying scintigraphy an invitro study.
- 4. Epidemiological study of thyroid cancer patients in Kasturba Hospital.

Year 2014 (06 Numbers)

- 1. Scintigraphic evaluation of Salivary gland functions in differentiated thyroid carcinoma patients undergoing 131I treatment.
- 2. Extraction and quality check of 99mTc-Sodium pertechnetate from large alumina column using low specific 99Mo-sodium molybdate activity.
- 3. Standardisation of dose calibrator for measuring activity of 131I sample with gamma ray spectrometer.
- 4. Agreement between the 24hour fractional thyroid uptake values calculated from 131I scans obtained using ngamma camera and thyroid uptake values obtained from Probe: A retrospective study.
- 5. Estimation of effective half life of 131I inpatiernts treated for differentiated thyroid carcinoma.
- 6. Role of thyroid parotid ratio in the diagnosis of various suspected thyroid disorders.

Dept of Occupational Therapy

Year 2012 (07 Numbers)

www.manipal.edu

- 1. Comparing the performance of children identified with deficit by teachers on a standardized test of Attention (TEA-Ch) between 6 to 11 year
- 2. Sensory problems in children with epilepsy
- 3. Modified Jebsen Test of Hand Function: Test-retest reliability & normative values for Indian adults of 20 to 59 years



- 4. Effect of Multimodal Stimulation on Neurobehavioral Organization in Medically-Stable Preterm Infants
- 5. Effect Of age and activity on performance of floor-sitting in Indian adults
- 6. Modified Falls Behavioral Scale for Indian Community Dwelling Older Adults
- 7. Bimanual coordination and its impact on functional performance in adults with epilepsy

Year 2013 (08 Numbers)

- 1. Effectiveness of Sensory Motor Intervention to Improve Attention and Organization Skills in Children with Attention Deficit Hyperactivity Disorder in a School Setting: A Case Study Approach.
- 2. An exploratory study on the Graphesthesia Performance in Children aged 6-10 years.
- 3. Performance of Indian children on the TEA-Ch And its comparison with the Norms of Australian Children from 6-16 years age group
- 4. Comparison of fall risk in rural and urban community dwelling Indian older adults.
- 5. Impact of Motor recovery and functional dependence in chronic young stroke survivors on caregiver burden
- 6. A cross sectional study on fall related injuries and hospital admissions in Indian elderly
- 7. A cross sectional study of employment pattern in patients with severe mental illness
- 8. Effectiveness of buttoning activities on upper body buttoning speed of patients with hand injuries

Year 2014 (08 Numbers)

- 1. Comparison of compliance to manual and video-based home program in parents of children with motor developmental delay
- 2. Effectiveness of Sensory Motor Based strategies on Organizational Skills in Children with Attention Deficit Hyperactivity Disorder (ADHD)
- 3. Leisure participation in academically good and poor performing children
- 4. Test of shopping skills for children and its Reliability
- 5. Perspectives of Older Adults on Community Mobility in an Indian Metropolis
- 6. A cross-sectional study on bathroom hazards in urban community dwelling older adults
- 7. Normative performance of Indian Older Adults in Modified Jebsen Hand Function Test
- 8. Impact of upper extremity injuries on two-wheeler driving

Dept of Respiratory Therapy

Year 2012 (03 Numbers)

- 1. Comparison of pressure support ventilation with proportional assist ventilation in weaning of critically ill patients
- 2. Efficacy of recruitment manevure with or without antiderecruitment strategy in ARDS patient a prospective study.
- 3. Evaluation of five weaning indices in mechanical ventilated patients

Year 2013 (02 Numbers)

1. Clinical features, management and outcome in patients admitted with liver cirrhosis to the ICU – A retrospective Study



2. Comparison of endotracheal cuff pressure measurement techniques in critically ill patients

Department of Optometry

Year 2012 (06 Numbers)

- 1. Comparison and quantification of signs and symptoms with reading text: Hard copy v/s soft copy
- **2.** Awareness, knowledge and barriers to low vision services among eye care practitioners in India
- **3.** Normative data for near point of convergence, amplitude of accommodative and phoria in Indian population
- **4.** Study the effect on intraocular pressure and central corneal thickness due to a tight necktie among obese and normal adults
- **5.** Knowledge, awareness and perception towards eye donation among literate working population
- **6.** Efficacy of tele-based (remotely operated) visual acuity examination & training video on vision examination using landolt 'C' in a hospital based population

Year 2013 (05 Numbers)

- 1. To develop & validate automated E-Amsler for sight threatening eye (macula) diseases
- 2. To compare the visual performance and reading speed between multifocal contact lens And spectacle wearers among presbyopes
- 3. Validation of plusoptix among school going children in Udupi taluk
- 4. Impact of non-strabismic binocular vision anomalies on academic performance in primary school children at Udupi
- 5. Sensitivity and specificity of different visual acuity charts and steroacuity charts

Year 2014 (06 Numbers)

- 1. Influence of Lasik on orthoptic parameters.
- 2. Comparison of the visual skills between higher order and tail end Batsman
- 3. Comparison of Computerized Binocular vision test using VTS 3.0 and standard Binocular Vision testing methods
- 4. Development and repeatability of visual acuity chart using vanishing optotypes
- 5. Ophthalmic anthropometry measurement's in South Indian children between 3-9 years of age.
- 6. A Comparison of Subjective Refraction of Subjective Refraction during and post Cycloplegic using different sizes of pupil

Department of Renal replacement therapy and Dialysis technology:

Year 2014 (02 Numbers)

- 1. Study of dialysis central venous catheter related blood stream infection among the patients undergoing hemodialysis treatment in Kasturba hospital, Manipal
- 2. Profile of Anemia management among chronic kidney disease patients under regular hemodialysis in Kasturba hospital, Manipal

Dept of Medical Imaging Technology

Year 2014 (08 Numbers)



- 1. Comparison of Multiplanar HRCT & VR CT in depiction of Microanatomy of the Temporal bone
- 2. Radiographer's Knowledge, Awareness & Practice towards Nosocomial Infection during Radiography
- 3. Evaluation of factors Effecting Intravenous CT Contrast Medium Kinetics
- 4. Estimation of range of Hounsfield unit on CT for different grades of fatty infiltration of liver categorized using ultrasound
- 5. Comparison of MIP & VR with Average at various slab thickness in MCDT for detecting Pulmonary Nodules
- 6. Radiographer's Knowledge, Awareness & Practice towards Nosocomial Infection during Radiography
- 7. Evaluation of factors Effecting Intravenous CT Contrast Medium Kinetics
- 8. Estimation of range of Hounsfield unit on CT for different grades of fatty infiltration of liver categorized using ultrasound

22E. Completed UG Projects

Department of Physiotherapy

Year 2012 (20 Numbers)

- 1. Muscular endurance among Malaysians and Indians normative data
- 2. Effectiveness of ultrasound and laser for treatment of trigger points: A Randomized clinical trial
- 3. Changes in peak expiratory flow rate in individuals with type-2 diabetes
- 4. Prevelance of Neck pain among desktop and laptop computer users in university staff and students
- 5. Effect of Laser and tests in treatment of patients with Fibromyalgia A pilot study
- 6. Short term Effects of Low Level Laser Therapy on Pain and Symptoms with patients with Chronic Sinuties: A randamised controlled placebo study
- 7. Immediate effects of Kinesiotaping on postural control in low back pain
- 8. Effect of thumb hyperextension on pad to pad pinch strength
- 9. Effect of Isometric neck Muscle training on Cervical Core Endurance
- 10. Comparison of Transversus abdominis muscle endurance between women with and without dysmenorrhoea in various phases of menstrual cycle
- 11. Awareness of foot problems and care among diabetic population in India- A questionnaire based survey
- 12. Effect of low cost modified pheripheral input device for training upper limb function in patients with stroke using computer games A pilot study
- 13. Functional Activity quality rating
- 14. Association of physical activity and sleep habits construction and validation of questionnaire
- 15. Measurement of Shoulder Alignment in Bowlers
- 16. Postural Sway In Patients with Low Back Pain
- 17. Validation of Neumatic Jacket for Inspiratory Muscle Testing In COPD and Healthy Subjects
- 18. Relation Between Foot Discomfort and Footwear A Cross Sectional Study
- 19. Awareness and Knowledge about antenatal exercise program a cross sectional study
- 20. Qualitative video analysis of cricket pace bowlers with and without shoulder pain

Year 2013 (03 numbers)

1. Attitude and Perception of Physical Activity Towards Allied Health Science Female Students

EVALUATIVE REPORT OF THE DEPARTMENT



- 2. Perception about Activities of Daily Living Among Pregnant Women
- 3. Assesment of Weight Bearing status in Spastic Diplegic Children Using Foot Scanner

Year 2014 (16 numbers)

- 1. Observed versus perceived barriers among institutionalized older adults
- 2. Acute Heart rate response to diving in male recreational drivers
- 3. Body Composition, Framingham Risk Score And Parameters Of Metabolic Syndrome In Overweight And Obese Indians
- 4. Use of theraband in phase 1 cardiac rehabilitation and its effect on performance.
- 5. Role of mirror therapy on muscle activation in patients with stroke : A preliminary study
- 6. Inter-examiner reliability in diagnosing neck dysfunction
- 7. The effect of static stretch and PNF stretch on Hamstring length: Comparative study
- 8. Prevalence of Musculoskeletal and foot complications in patients with type 2 diabetes mellitus
- 9. Effect of video assisted home based program in subjects with peripheral vestibular disorders
- 10. Influence of mirror feedback on postural sway in normal young adults
- 11. Inter rater reliability of inch tape measurements for flexion and extension on range of motion of thoracic spine
- 12. Effects of aerobic exercise using large therapeutics rolls on exercise capacity of overweight and obese individuals.
- 13. Reliability of assessing end feel in subjects with painful elbows
- 14. Determining the dimensions of L5-S1 intervertebral disc
- 15. Risk factor and injury profile in recreational basketball players
- 16. Designing and development of portable frame with caliper for chest expansion measurement

Department of Health Information Management

Year 2012 (06 Numbers)

- 1. Summarizing the outcome of care of infectious diseases as per ICD-10
- 2. Knowledge and Experience of health insurance product among the policy holders
- 3. Perception of allied health professionals towards health application Study of job satisfaction among the health information management professionals working in the front office
- 4. Trends of communicable diseases among teenagers
- 5. A study on awareness, practice and perception among students about delivery healthcare services using mobile phone
- 6. A quantitative study on wastage of medical records forms Perception of Allied Health and Nursing Students towards eHealth application

Year 2013 (11 Numbers)

- 1. Assessment of HIS in PHCs of Udupi District
- 2. Assessment of HIS in PHCs of Patna District
- 3. Assessment of HIS in PHCs of Mallapurum District
- 4. Assessment of HIS in PHCs of Goa
- 5. Assessment of HIS in PHCs of Sikkim
- 6. Nurses attitude towards EMR
- 7. Perception, need & expectation of Healthcare professionals towards CDSS
- 8. Community based assessment of NCD in Sikkim
- 9. Corporate patient satisfaction with Health Insurance package



- 10. Utilization of primary healthcare service by community in rural area of Sikkim
- 11. Study on Greenhealth Insurance claim process

Year 2014 (06 Numbers)

- 1. End-User satisfaction of HIS
- 2. Communication system among nurses
- 3. Awareness of MHIS in Meghalaya
- 4. Implementation of ICD 10 in LM Hospital, Udupi
- 5. Health information documentation in private hospital in Meghalaya
- 6. A compliance audit of initial nursing assessment

Dept of Occupational Therapy

Year 2012 (05 Numbers)

- 1. Time Taken for Upper Body Dressing in Young Normal Adults
- 2. A Study on the Leisure Interest of Indian Undergraduate Students
- 3. An Observational Study on Sensory Based Outdoor Play Preferences in Children Aged Between 3-12 Years- A Preliminary Study
- 4. Barriers to Wheelchair Accessibility in Private Schools
- 5. A Retrospective Study on Fall Related Injuries and Hospital Admissions in Indian Elderly

Year 2013 (02 Numbers)

- 1. The use of public transport by Osteoarthritis patients: A Descriptive Study.
- 2. A study on the Risk Factors Related to Lifestyle Disease among College Going Students.

Year 2014 (03 Numbers)

- 1. A Comparative study to assess the Quality of Life satisfaction of elderly residing in old age home and home setting in and around Udupi.
- 2. The level of performance in BADL and IADL in elderly: A self-report measure.
- 3. Relationship between homemaking performance mode and body mass index in housewives within Shivalli area using a rater administered questionnaire

Department of Respiratory Therapy

Year 2012 (13 Numbers)

- 1. Incidence of Ventilator associated Pneumonia
- 2. Efficacy of Pulmonary Rehabilitation in Patients with COPD & Asthma –
- 3. Health care Professionals Burden while treating critically ill-patients –
- 4. Comparison of Invasive & Non-invasive Mechanical ventilation in critically ill patients –
- 5. Effectiveness of Chest Physiotherapy & Breathing exercises in critically ill patients –
- 6. Scrub typhus at tertiary hospital in Udupi District: Clinical profile and complication in patient who required mechanical ventilation. –
- 7. Comparison of Down score with Silverman Anderson score in Respiratory Distress
- 8. Clinical outcome of HFOV in neonates –
- 9. Clinical outcome of H1N1 in mechanically ventilated patients –
- 10. Assessment of FDO2 by preterm self inflating bag with leak –
- 11. Clinical outcome of Nitric oxide in neonates –



- 12. Curb 65 scoring in pneumonia –
- 13. Calculation of the APACHE II score of patients who have sustained Cardiac arrest –

Year 2013 (06 Numbers)

- 1. Reliability of Shunt Table with respect of different disease conditions
- 2. The APACHE IV prognostic system predicting mortality and length of stay
- 3. NIV as a weaning tool observational study
- 4. Outcome of non-invasive ventilation (NIPPV v/s VCPAP) in neonates with apnea of prematurity receiving methylxanthines in NICU A retrospective study
- 5. An awareness study of prevention of ventilator associated pneumonia among health care professionals
- 6. Outcome assessment in neonates with congenital diaphragmatic hernia during mechanical ventilation

Year 2014 (18 numbers)

- 1. Assessment Of Rapid Shallow Breathing Index As A Predictor Of Failure Of Noninvasive Ventilation For Patients With Acute Respiratory Failure
- 2. Effect Of Oxygen Injection Sites On Fraction Of Delivered Oxygen (Fdo₂) During Non-Invasive Ventilation: An Experimental Lung Model Study
- 3. Non Invasive Ventilation In Acute Respiratory Failure Patients
- 4. Modified Early Warning Score In High Dependency Unit
- **5.** High Flow Nasal Cannula Versus Nasal Continuous Positive Airway Pressure For Neonates- A Prospective Interventional Study
- **6.** Comparison Of Automatic Tube Compensation And Pressure Support Ventilation In Weaning From Mechanical Ventilation
- 7. Assessment Of Mean Airway Pressure And Rapid Shallow Breathing Index For Preterm Neonates Diagnosed With Respiratory Distress Syndrome
- **8.** Sporadic Cases Admitted In Both Adult And Neonatal Intensive Care Unit Of Kasturba Hospital- A Retrospective Case Study
- **9.** Arterial Sampler Filling Time During Arterial And Venous Puncture An Observational Study
- 10. To Study The Relationship Between Haemoglobin Value And Weaning From Mechincal Ventilation In Simple Difficult And Prolonged To Wean Patients A Pilot Study
- 11. Pulmonary Function Test Normal Values In Adult South Indian Population
- 12. Case Series Of Myasthenia Gravis
- 13. Case Series Of COPD
- 14. Case Series Of ARDS
- 15. Case Series Of Pulmonary Tuberculosis
- 16. Case Series Of Pulmonary Edema
- 17. . Case Series Of Ventilatory Associated Pneumonia
- 18. Case Series Of Organophosphorous Poisoning

Department of Optometry

Year 2012 (08 numbers)

- 1. Comparison of contrast sensitivity visual acuity & various stages of visual field losses in glaucoma patients
- 2. Comparison of the tear film clinical parameters of two different times of the day
- 3. Comparison of near vision quality among presbyopes using different forms of optical correction
- 4. A comparison of tear film characteristics in Kajal wearers & non-kajal wearers



- 5. Study of anthropometric measurement in South Indian population at Manipal University
- 6. Effect of cumulative near work on accommodative facility and asthenopia among 18-24 years old young adult
- 7. Awareness of diabetic eye diseases among diabetic patients in a tertiary health care hospital in coastal Karnataka
- 8. Prescribing art of spectacle for hyperopia among eye care practitioners

Year 2013 (10 Numbers)

- 1. Accomodative and veregence facility before and after the use of video display terminals
- 2. The relationship among iris colour central corneal thickness and intraocular pressure.
- 3. The effect of vertical case position on t but and Nibut in normal individuals
- 4. Prevalence of Convergence insufficiency using ELSS sysmptoms survey questionnaire
- 5. Awareness and knowledge of common eye disorders among the academic staff (Non medical faculties of Manipal University.
- 6. Major ocular Biometric Parameters and Binocular vision status in young Adult Myyopes
- 7. Comparison of Ocular Parameters between Mongoloids and Dravidian race in a university population in south India
- 8. Awareness of smoking related blinders among health sciences students in Manipal University
- 9. Contact lenses versus spectacles in Myopes is there any differences in Accomodative and Binocular Function
- 10. Corneal staining and comfort with silicone Hydrogel lens using two multipurpose solutions

Year 2014 (12 numbers)

- 1. Comparison of Orthoptic parameters before and after A 3D movie using computer based freely available software
- 2. Normative data for reading speed in school going children using mooread chart
- 3. Comparison of schirmer test with and without anaesthesia in open and closed eye condition.
- 4. Axial, length, anterior chamber depth and lens thickness changes during accommodation in myopes
- 5. Comparative study of visual skills on batting performance of high order and tail ender batsman
- 6. Effect of induced Astigmatic Axis Orientation on low contrast visual Acuting
- 7. Effect of warm compression tear quantity in normal population
- 8. Comparison of the subjective measurement of the Amplituted of Accomodation in different body postures
- 9. Normative Data for critical print size in school going children using MNREAD Chart
- 10. The effects of Music on visual memory
- 11. The effect of base in prism on stereoacuity during vergnce adaptation
- 12. Comparison of high and low contrast visual acuity with induced Astigmatic Axis Orientation

Department of Cardiovascular Technology

2012: (02)



- 1) A study of ventricular function on angiographic ally proven slow /normal epicardial coronaries using newer indices of Echocardiography—Thara Shetty 2012.
- 2) A study on prevalence of cardiac dysfunction in septicemia patients by Echocardiography Soumya Jose 2012.

2013 (03 numbers)

- 1) Clinical profile and outcome of patients with implanted IVC filter for DVT-Elisha Paul
- 2) Biventricular function assessment in isolated Mitral regurgitation by using newer Doppler indices of Echocardiography-----Roshini Thomas
- 3) Biventricular function assessment in isolated AS by newer Doppler indices of ECHO.—Kiran Rai

2014 (07)

- 1) A study of LV and RV function in pre and post BMV patients using newer ECHO techniques---Udaya Prabhu.
- 2) Clinical follow up in patients undergoing Carotid Artery Stenting—Ramya Nayak.
- 3) A follow of study of prognosis of patients with renal artery stenosis-Pema Wanchuk Lepcha
- 4) Comparative study on biventricular function in pre and post ASD device closure by newer Doppler indices—Mohammed Safeer.
- 5) Peripheral angio plasty-: clinical follow up---Naveena.
- 6) Dyysnchrony correlation of new Doppler Indices to ECG QRS duration in DCM LBBB and non LBBB patterns-Sridevi
- 7) Comparison of biventricular function between pregnant and non-pregnant women by conventional and newer Echocardiographic indices—Priyanka Antony 2014.

22F. Publication 22Fi. National

Department of Physiotherapy

Year 2012 (05 Numbers)

- 1. Roopa RD, Ranganath G, Ravi SR. Role of Mettler's Release as an Adjunct in the Management of Post-Immobilization Knee Stiffness- A pilot study. IJOPT 2012;5(1):133-135
- 2. Hiral Gandhi, Vaishali K, V Prem, K Vijayakumar, PrabhaAdikari, B UnniKrishnan. A Survey on Physical Activity and Non-Communicable Disease Risk Factors among Physicians in Tertiary Care Hospitals, Mangalore. National J Community Medicine 2012;3(1):7-13
- 3. Karvannan H, Maiya AG, Chakravarthy RD, Prem V, Syed N, Babu K, Rajashekar R. Effectiveness of behavior graded activity on exercise adherence and physical activity in hip and knee osteoarthritis A systematic review. Indian J Rhematol 2012 (Epub ahead of print) July 6
- 4. Dixit S, Maiya A, Rao L, Rao MA, Shastry BA, Ramachandra L. Photobiomodulation by helium neon and diode lasers in an excisional wound model: A single blinded trial. Adv Biomed Res 2012;1:38
- 5. Davis FJ, Vidyasagar S, Maiya GA. C-reactive protein and coronary heart disease risk marker or risk factor? J ClinSci Res 2012;1:178-86



Year 2013 (13 Numbers)

- 1. Babu AS. Acute exacerbations of COPD Will on-call physiotherapy allow for early initiation of rehabilitation? *Chest* 2013;143:280-281
- 2. Kanagasabai PS, Mohan D, Lewis LE, Kamath A, Rao BK. Effect of Multisensory Stimulation on Neuromotor Development in Preterm Infants. Indian J Pediatr. 2013 Jan 4. [Epub ahead of print]
- 3. Dixit S, Maiya A, Umakanth S, Borkar S. Photobiomodulation of surgical wound dehiscence in a diabetic individual by low-level laser therapy following median sternotomy. Indian J Palliat Care. 2013 Jan;19(1):71-5
- 4. Raja K, Gupta S. Goal oriented activity towards life skill training: preliminary indications of a task-intensive approach to manage cerebral palsy. Disability, CBR & Inclusive Development, 23, Feb. 2013. Available at: http://dcidj.org/article/view/161. Date accessed: 01 Apr. 2013
- Samuel AJ, Solomon J, Kumaran S, D'souza N. A Report of Body weight Supported Overground Training in Acute Traumatic Central Cord Syndrome. IJPOT 2013;7(1):96-98
- 6. Raju N, Maiya AG, Manikandan N. Reliability and Feasibility of Community Balance and Mobility Scale (CB&MS) in Elderly Population. IJPOT 2013;7(1):131-135
- 7. Babu AS, Arena R, Maiya AG, Padmakumar R Guazzi M. Should cardiopulmonary exercise testing become a part of regular evaluation for patients with a family history of pulmonary hypertension? Regarding "Cardiopulmonary exercise testing reveals onset of disease and response to treatment in a case of heritable pulmonary arterial hypertension" Pulm Circ 2013;3(1):121-122
- 8. Jingar A, Alaparthi GK, Vaishali K, Krishnan S, Z, Unnikrishnan B. Clinical management practices adopted by physiotherapists in India for chronic obstructive pulmonary disease: A national survey. Lung India 2013;30:131-8
- 9. Samuel SR, Maiya AG, Babu AS, Vidysagar MS. Effect of exercise training on functional capacity & quality of life in head & neck cancer patients receiving chemoradiotherapy. Indian J Med Res 2013;137(3):515-520
- 10. Babu AS, Padmakumar R, Maiya AG. A review of on-going trials in exercise based rehabilitation for pulmonary arterial hypertension. Indian J Med Res 2013;137(4):900-906
- 11. Babu AS, Myers J, Arena R, Maiya AG, Padmakumar R. Evaluating exercise capacity in patients with pulmonary arterial hypertension. Expert Rev Cardiovasc Ther 2013;11(6):729-737
- 12. Kulkarni S, Darshana NG. Musculoskeletal Risk Assessment among Nurses in Patient Manual Handling in Hospital Wards A Cross Sectional Study. Curues 2013;5(8):e137 doi:10.7759/cureus.137
- 13. Syed N, Maiya AG, Hanifa N, Goud S. Plantar pressures in diabetes with no known neuropathy. Journal of Diabetes 2013;5: 302–308

Year 2014 (18 Numbers)

- 1. Babu AS, Madan K, Veluswamy SK, Mehra R, Maiya AG. Worksite health and wellness in India. Prog Cardiovasc Dis 2014; 56(5):501-507
- 2. Madan K, Babu AS, Contractor A, Prabhakaran D, Gupta R, Sawheny JPS. Cardiac rehabilitation in India. Prog Cardiovasc Dis 2014;56(5):543-550
- 3. Babu AS, Veluswamy SK, Rao PT, Maiya AG. Clinical Trial Registration in Physical Therapy Journals: A Cross-Sectional Study. Phys Ther 2014;94(1):83-90



- 4. Unnikrishnan R, Babu AS, Krishna HM. Cardiac arrest in acute respiratory distress syndrome is it time to focus? Indian J Respir Care 2014; 3(1):347-349
- 5. Neha Dewan, Kavitha Raja, Ganesh Balthillaya Miyaru, and Joy C. MacDermid, "Effect of Box Taping as an Adjunct to Stretching-Strengthening Exercise Program in Correction of Scapular Alignment in People with Forward Shoulder Posture: A Randomised Trial," ISRN Rehabilitation, vol. 2014, Article ID 510137, 12 pages, 2014. doi:10.1155/2014/510137
- 6. Dixit S, Maiya A. Diabetic peripheral neuropathy and its evaluation in a clinical scenario: A review. J Postgrad Med 2014;60:33-40
- 7. Thakrar R, Alaparthi GK, Kumar SK, Vaishali K, Zulfeequer CP, Aanad R. Awareness in patients with COPD about the disease and pulmonary rehabilitation: A survey. Lung India. 2014 Apr;31(2):134-8
- 8. Manikandan, N., Kumar, K., Rajashekhar, B. Generation and Content Validation of Mobility Domains and Item Pool for Community-dwelling Individuals. Disability, CBR & Inclusive Development 2014; 25(1): 40-54
- 9. Dixit S, Kumar S. Awareness of Diabetic Foot Complications in Type 2 Diabetes Population in Rural India: Are we doing enough? J Diabetes Metab 2014, 5:4 http://dx.doi.org/10.4172/2155-6156.1000363
- 10. Shah A A, Chakravarthy K B, Maiya A G, Vora V, Gopee M. Epicardial adipose tissue thickness in young Indian overweight and obese individuals. Ann Med Health Sci Res 2014;4:56-7
- 11. Dixit S, Maiya AG, Shastry BA. Effect of aerobic exercise on peripheral nerve functions of population with diabetic peripheral neuropathy in type 2 diabetes: A single blind, parallel group randomized controlled trial. J Diabetes Complications. 2014;28(3):332-9
- 12. Bhat A, Chakravarthy K, Rao BK. Chest physiotherapy techniques in neurological intensive care units of India: A survey. Indian J Crit Care Med 2014;18:363-8
- 13. Samuel SR, Maiya AG, Vidyasagar MS. Quality of life in head and neck cancer patients: A physiotherapist's perspective. Indian J Cancer 2014;51(1):86
- 14. Dixit S, Maiya AG, Shastry B. Effect of aerobic exercise on quality of life in population with diabetic peripheral neuropathy in type 2 diabetes: a single blind, randomized controlled trial. Qual Life Res 2014;23(5):1629-1640
- 15. Davis FJ, Vidyasagar S, Maiya AG. Effect of Eight Weeks of Walking on High Density Lipoprotein Cholesterol. IJPOT 2014;8(3):176-181
- 16. Saxena S, Rao BK, Kumaran S. Analysis of Postural Stability in Children With Cerebral Palsy and Children With Typical Development: An Observational Study. Paed Phys Ther 2014;26(3):325-330
- 17. Babu AS, Veluswamy SK, Myers J, Lavie CJ. Metabolically healthy obese versus cardiorespiratory fit obese is it time to bring them together? *J Am Col Cardiol* 2014;64(11):115-116 Indexed: PubMed, Impact factor: 14.7
- 18. Babu AS, Veluswamy SK, Arena R, Guazzi M, Lavie CJ. Virgin, Coconut oil and its potential cardio protective effects, Postgrad Med.2014

Department of Health Information Management

Year 2012 (10 Numbers)

1. Jathanna, Roopalekha PN and Latha, KS and Prabhu, Swetha (2012) Occupational Stress and Coping among Nurses in a Super Specialty Hospital. Journal of Health Management, 14 (4). pp. 467-479.



- 2. Saha, Dola and Nur, Ibrahim Mohammed (2012)<u>Perception of Medical Students about Electronic Discharge Summaries.</u> Research & Reviews: A Journal of Health Professions, 2 (3). pp. 18-29. ISSN 2277-6192
- 3. Saha, Dola (2012) <u>Management of Health Information Technology in Indian Hospitals.</u> Research & Reviews: A Journal of Health Professions, 2 (1). pp. 12-16. ISSN 2277–6192
- 4. Mary, Geena S and Nair, SN and Roopalekha, J (2012) <u>Analysis of the satisfaction profile of patients using a hospital based health insurance scheme: A cross sectional study.</u> Management in Health, 16 (2). pp. 32-35.
- 5. Reshmi, Bhageerathy and Nair, Sreekumaran N and Sabu, KM (2012) <u>Awareness</u>, attitude and their correlates towards health insurance in an urban south Indian population. Management in health, 16 (1). pp. 32-35.
- 6. Jathanna, Roopalekha PN and Latha, KS and Prabhu, Swetha (2012) Occupational Stress and Coping among Nurses in a Super Specialty Hospital. Journal of Health Management, 14 (4). pp. 467-479.
- 7. Sinha, Rajesh Kumar and Thankachan, Merlin (2012)<u>Perception of Nursing Professionals Towards eHealth Application.</u> International Journal of BioSciences and Technology, 5 (14). pp. 76-81. ISSN 0974 3987
- 8. Sinha, Rajesh Kumar and Saha, Dola and Shetty, Sriraksha (2012)<u>Perceptions of Health Information System.</u> British Journal of Healthcare Management, 18 (10). pp. 533-538.
- 9. Sinha, RK and Saha, D (2012)<u>Privacy and Confidentiality of Electronic Health</u>
 <u>Records: An emerging issue in healthcare practice.</u> Journal of Academy of Hospital Administration, 19 (1-2). pp. 51-54.
- 10. Saha, Dola and Reshmi, B and Sabu, KM (2012)<u>A social audit of private hospital services in India.</u> British Journal of Healthcare Management, 18 (7). pp. 383-387.

Year 2013 (08)

- 1. Sukumar, Suresh and Rajagopal, KV and Sabu, KM (2013)<u>Perception of radiation awareness among medical doctors in India.</u> International Journal of Pharmacy and Biological Sciences, 3 (3). pp. 371-376. ISSN 2230-7605
- 2. Saha, Dola and Limboo, Shayam Kumar (2013) <u>Awareness and Practices of Students About Using Mobile Phones in Healthcare Delivery.</u> International Journal of Multidisciplinary Research (IJMR), 1 (12(1)). pp. 22-25. ISSN 2277-9302
- 3. Sinha, Rajesh Kumar (2013) <u>Evaluation of user acceptance of an electronic health record system.</u> International Journal of Multidisciplinary Research, 1 (12). pp. 10-13. ISSN 2277-9302
- 4. Sinha, Rajesh Kumar and Rashida, KVO (2013)<u>Perception towards health information system in emergency care.</u> Journal of the Academy of Hospital Administration, 25 (1). pp. 18-26.
- 5. Sinha, Rajesh Kumar and Shenoy, Nandana (2013) <u>Assessment of Oncology Medical</u> Records as per NABH Standards. Journal of Health Management, 15 (3). pp. 329-343.
- 6. Jathanna, Roopalekha PN (2013)<u>Determinants of Depression among Informal Caregivers of Persons with Dementia.</u> International Journals of Multidisciplinary Research, 1 (12). pp. 18-21. ISSN 2277-9302
- 7. Sukumar, Suresh and Rajagopal, KV and Sabu, KM and Kotian, Rahul P and Kotian, Sahana (2013)<u>Perception of Informed Consent Among the Patients Coming to Radiology Department.</u> Indian Journal of Research, 2 (11). pp. 228-230. ISSN 2250-1991
- 8. Sinha, Rajesh Kumar and Raghavan, Vivek M and Pias, Sunronce (2013) Quality Evaluation of Clinical Biochemistry Laboratory against ISO 15189:2007 Standard. International Journal of BioSciences, Healthcare Technology and Management, 5 (2). pp. 11-15. ISSN 0975 3893



Year 2014 (05)

- 1. Jathanna, Roopalekha PN (2014)<u>The awareness and attitudes of students of one Indian</u> dental school toward information technology and its use to improve patient care. Education for Health, 27 (3). pp. 293-296.
- 2. Jathanna, Pamila NR and D'Silva, Jeal (2014) Quality of life among nurses working in different health care setting in the state of Karnataka, India. CHRISMED Journal of Health and Research, 1 (4). pp. 241-244. ISSN 2348 3334
- 3. Sinha, Rajesh Kumar (2014) <u>Human Computer Interaction</u>, <u>Usability Engineering and Cloud Computing in Healthcare and Medical Domain: A Possible Overview</u>. Current Trends in Biotechnology and Chemical Research, 4 (1). pp. 42-46. ISSN 2249-4073
- 4. Sinha, Rajesh Kumar and Kurian, Susanna (2014)<u>Assessment of end user satisfaction of Hospital information system.</u> Management in health, 18 (3). pp. 26-33.
- 5. Sinha, Rajesh Kumar and Limboo, Benu Hangma (2014)<u>Understanding the Need of Clinical Decision Support System among Healthcare Professionals.</u> International Journal of Medical Sciences and Technology, 6 (1). pp. 1-5. ISSN 0974 5343

Dept. of Speech & Hearing

Year 2012 (01 Numbers)

1. Sunila John, Veena KD, Annamma George, B Rajashekhar. Spoken Discourse in Elderly Malayalam Speakers: Influence of Age, Gender & Education Indian Journal of Gerontology, 26 (3), 321-328.

Year 2013 (06 Numbers)

- 1. Kiran, S.Krishnan, G. Stroke and aphasia quality of life scale in Kannada evaluation of reliability, validity, and internal consistency. Annals of Indian Academy of Neurology 16 (3), pg 361-364 (July-September 2013).
- 2. Agarwal, Ashish C and Pujary, Kailesh and Kanaka, Ganapathy and Balakrishnan, R and Nayak, Dipak R and Hasan, Faisal. Pure tone audiometry and otoacoustic emissions for the assessment of hearing loss in diabetic patients. Indian Journal of Otology, 19 (1). pp. 13-17. (March)
- 3. Simran, K., Sunila John., Veena K, D., & B Rajashekhar. Phonological Process and Accuracy Measures in Typically Developing Punjabi Speaking Children between 3 5 years. Indian Journal of Applied Linguistics, Vol. 39, No.1, 81-111
- 4. Krishna, Y. & Rajashekar, B. Association between Bandwidths of Vowel Formants and Age, Gender and Consonant Context in Telugu. Languages in India. Vol 13, No 3. 574 584. ISSN 1930-2940.
- 5. Krishna, Y. & Rajashekar, B. Vowel Duration across Age and Dialects of Telugu Language. Languages in India. Vol 13, No 2, 164-185; ISSN 1930-2940
- 6. Krishna.Y. Acoustic Characteristics of Vowels in Telugu. Languages in India. Vol 13, No. 1., 654 970, ISSN 0974-2131

Year 2014 (01 Numbers)

1. Selvakumar A M R, John S, Kanaka G & Rajashekhar B. Syllable Awareness in Kannada Speaking Children With Cerebral Palsy. Language in India, 14 (12), 1-10 (December) ISSN 1930-2940

Dept of Occupational Therapy

Year 2012 (03 Numbers)



- 1. Vinita Acharya Deena dimple D'souza, Problem identification grid: Assessment tool for acute mental health settings. The Indian Journal Of Occupational Therapy, Vol 44 No 2 (11-14 may 2012 August 2012
- 2. Richa Sachadeva Chavan Shashidhar Rao, Community participation activities involving money handling skills of children with learning disability as compared to children with typical development aged 10 to 14 years, The Indian Journal Of Occupational Therapy, Vol 44 No 2 25-30, may 2012 August 2012
- 3. Sanjiv Kuamr, Pramod Kumar, Richa Singh, Modified thumb splint for early recovery in post burn thumb amputation Journal of Society for Wound Care and Research, Vol 5 issue 1 ISSN 2229-322140-42, Jan-Dec 2012

Year 2013 (02 Number)

- 1. Acharya, Vinita A (2013) Psychosocial occupational therapy practice in India: Where is the evidence? A review of IJOT publications. Indian Journal of Occupational Therapy, 45 (3). pp. 8-12. ISSN 0445-706
- 2. Sau, Koushik (2013) Netiquette: A Modern Day Essential for Occupational Therapists. Indian Journal of Occupational Therapy, 45 (3). p. 26. ISSN 0445-706

Year 2014 (01 Number)

1. Prasad, Hari G and Acharya, Vinita (2014) A cross sectional study of employment pattern in patients with severe mental illness. The Indian Journal of Occupational Therapy, 46 (2). pp. 35-40.

Dept. of Nuclear Medicine

Year 2012 (02 Numbers)

- 1. Bhushan Shivanand, "Safety management of hazardous radioactive Chemical materials to protect human health and environment: Insight into regulatory framework of current UGC Guidelines.", Proc National symposium on Genomics 2012 pp 37.
- 2. Shivanand Bhushan and Rajesh Kumar "Correlation between Glomerular filteration rate with Gamma camera and Estimated Serum Creatinine Clearance from Cockcroft & Gault formula .Ind. Nucl.Med (Apr- June 2012), Vol 27, issue 2:85-88.

Year 2014 (01 Number)

1. Bhushan Shivanand: Book Review. Nuclear Medicine a guide for healthcare professionals & Practice. Indian Journal of Nuclear Medicine. Ind. Jour. Nucl.Med Oct- Dec 2014, Vol 29, issue 4:291-292

Dept. of Medical Laboratory Technology

Year 2013 (03 Numbers)

- 1. Licy C D, Vivek Raghavan, Saritha Kamath, Anies T K, Josphina C T. Awareness, Attitude and Practice of School Students towards Household Waste Management. Journal of environment (2013), Vol. 02, Issue 06, pp. 147-150
- 2. Patil A, Nayak DM, Belurkar SV, Verma S. Validation of an erythrocyte sedimentation rate analyzer with modified Westergren method, JEMD 2013;2(3):284-289.
- 3. Nayak DM, Patil A, Dhakal R. Leucoagglutination in vitro ,JEMDS 2013; 2(5):467-472

Dept of Optometry



Year 2012 (01 Number)

1. Jyothi Thomas, Danisha KE, babu noushad, George P Jacob- Measurement of central corneal thickness with ultrasonic pachymetry in healthy adult eyes Optometry Today – volume 38 issue 3 page-18-20

Year 2014 (01 Number)

1. Jyothi Thomas , Vasudha K,Nijil Sanker,George P Jacob- Prevalence of ocular symptoms among computer professionals in a university setting in South India, Journal of Evolution of Med & Dent Science Volume 3 issue 69 page No. 14777-14786

Department of Cardiovascular Technology

2012 (06)

- 1. Shetty RK, Vivek G, Nayak Krishnanandda, Dias LS. Unilateral inverse Moustache sign. BMJ Case Reports 2012;10.1136/bcr.03.2012.6095.
- 2. Krishnananda Nayak, Rajan shetty, G Vivek, Umesh Pai.Pericardial cyst:a Benign anomaly.BMJ CASE REPORT2012; 10.1136/bcr-03-2012-5984.
- 3. Rajan shetty, G Vivek, Krishnananda Nayak, Umesh Pai. Fetal Ebsteins Anomaly.BMJ case reports 2012:10.1136/bcr-2012006446.
- 4. Vivek G, shetty RK, Pai UM, Nayak K. Use of a coronary sinus guiding Sheath for placement of right ventricular lead in abnormal venous anatomy: a report of 2 cases. BMJ Case Reports 2012;10.1136/bcr-2012-007687
- 5. RK. Vivek G. Gupta Shetty MK, Navak K, Pai U, Dias L, Naha K, Acharya R. Carotid stenting in a nonagenarian patient with symptomatic carotid AMJ 2012. 5. 10.528--stenosis. 530.http//dx.doi.org/10.4066/AMJ.2012.1278.
- 6. Shetty Ranjan, G Vivek, Kushal Naha, Krishnananda, Goyal Amit, Lorrian Dias, Correlation of epicardial fat and anthropometric measurements in Asian –Indians: A community based study. Avicenna Journal of Medicine/oct-Dec 2012/Vol 2 /Issue 4.

2013 (05)

- 1. Ranjan Shetty, MD DM1, G. Vivek, MD DM1, Ashok Thakkar, PhD2, Rajaram Prasad, MD1, Umesh Pai, MSc, Krishnananda Nayak, MSc, Safety and Efficacy of the Frontrunner XP Catheter for Recanalization of Chronic Total Occlusion of the Femoropopliteal Arteries. J INVASIVE CARDIOLOGY 2013;25(7):344-347.
- 2. Kushal Naha, G Vivek, Ranjan Shetty, Krishnananda Nayak, Late presentation of TAPVC with multiple cerebral abscesses. BMJ case reports 2013:10.1136/bcr-2013009778
- 3. Shetty RK, G Vivek, Kushal Naha, N R Rau, K Nayak, Quadrivalvular heart Disease of mixed congenital and rheumatic aetiology with concomitant ostium Secundum atrial septal defect and Ebsteins anomaly of tricuspid valve. BMJ Case reports 2013:10.1136/bcr-2012-008032.
- 4. Nishanth K R, Shubha Sheshadri, Vnay Pandit, N Krishnanand, Isolated Pulmonary valve endocarditis in a patient with aplastic anaemia.BMJ case Reports 2013:10.1136/bcr-2013-008769.
- 5. U Rajendra Acharya, S Vinitha Sree, M Muthu Rama Krishnan, N Krishnananda, Shetty Ranjan, Pai Umesh, Jasjit S Suri, Automated classification of patients with coronary artery disease using grayscale features from left ventricle echocardiographic images, Computer methods and programs in biomedicine, 112 (3), 2013, 624-632.. doi: 10.1016/j.cmpb.2013.07.012. Epub 2013 Aug 16.

2014 (01)



1. Hashir Kareem, Tom Devasia, Krishnananda Nayak, Sumit Agarwal:Unexplained extensive calcification of the venaecavae extending into the right Atrium causing partial obstruction of the tricuspid valve: BMJ Case Rep: 10.1136/bcr-2014-204070.

Department of Clinical Psychology

Year 2013(04 Numbers)

- 1. Neethi NV, Alex J. Behavioral Inhibition and Cognitive Emotion Regulation in Attention Deficit Hyperactivity Disorder, Indian Journal of Applied Research 2013; 3:2,333-334.
- 2. Alex J. Learning Disabilities: Assessment and Intervention, Paripex Indian Journal of Research 2013; 2:2, 175-176.
- 3. Pothiyil DI, Alex J. Self-Regulation and Set shifting in Alcohol Dependence Syndrome, Indian Journal of Applied Research 2013; 3:3, 347-350.
- 4. Alex J. Non Verbal Learning Disabilities: Assessment and Intervention, Paripex Indian Journal of Research 2013; 2:7, 262-264.

Year 2014 (05 Numbers)

- 1. Manu, K.M., Johnson, S. and Johnson, A. (2014). Multidisciplinary approach to pulmonary rehabilitation- An overview. *Indian Journal of Respiratory Care*, 3 (1), 388-395.
- Valsaraj, Blessy Prabha and Bhat, Shripathy M and Prabhu, Ravindra and Dinesh, N (2014) <u>A Qualitative Research on the Experience of Haemodialysis in South</u> <u>Karnataka:Lived Experience of Persons undergoing Haemodialysis.</u> Journal of Krishna Institute of Medical Sciences University, 3 (2). pp. 90-100. ISSN 2231-4261
- 3. Sahana, M and Asha, K (2014) <u>Stress and coping among final year medical students.</u> AP Journal of Psychological Medicine, 15 (2). pp. 74-80.
- 4. Sahana, M and Asha, K (2014) *Factors related to life satisfaction, meaning of life, religiosity and death anxiety in health care staff and students: A cross sectional study from India.* Online Journal of Health and Allied Sciences, 12 (2). pp. 1-7. ISSN 0972-5997
- 5. Sahana, M and Kamath, Asha (2014) <u>Stress, coping and gender differences in third year medical students.</u> Journal of Health Management, 16 (2). pp. 1-24.

22Fii. International

www.manipal.edu

Department of Physiotherapy

Year 2012 (24 Numbers)

- 1. Reddy RS, Maiya AG, Rao SK. Proprioceptive errors in subjects with cervical spondylosis. International Journal of Health Sciences & Research 2012;1(2):65-73
- 2. Reddy RS, Goparaju S, Sanghvi P, Vaza Y. Correlation between Lumbar Extensor Muscle Endurance and Lumbar Proprioception. International Journal of Health Sciences & Research 2012;2:20-26
- 3. Maiya AG, Dixit S, Udupa P, Rao L. Photo Stimulatory and Photo Inhibitory Effect of Low Level Laser Therapy in Diabetic Wound Healing Dynamics-Preclinical Study. International Journal of Health Sciences & Research 2012;2(2):8-14
- 4. Reggie AS, Sakthimurugan L, Periasamy S, Halim MSA, Chakravarthy K, Girish N. Prevalence of Neck Pain among Desktop and Laptop Computer users in



- University Staff and Students, International Journal of Current Research and Review 2012; 4(9):6-10
- 5. Sudhakar S, Maiya AG. Biochemical markers an indirect method for evaluating delayed onset muscle soreness among recreational athletes. Int J Biol Med Res. 2012; 3(2): 1624-1626
- 6. Danait R, Peter A. Rehabilitation in post-chemotherapeutic unstable arthritic shoulder- a case report. International Journal of Current Research and Review 2012;4(7): 113-119
- 7. Rao BK, Kumar P, Rao S, Jagdishchandra K, Suhasini P, Kamath A. Bactericidal effect of direct and filtered ultraviolet c through transparent plastic sheet on gram negative bacilli –an in- vitro study. International Journal of Biomedical and Advance Research 2012;3:785-790
- 8. Syed N, H K, Maiya AG, B BK, V P, Chakravarty RD. Plantar Pressure Distribution Among Asymptomatic Individuals: A Cross-Sectional Study. Foot Ankle Spec. 2012 Feb 15. [Epub ahead of print]
- 9. N Girish, Kamath R, Maiya AG, Kamath A. Prevalence of Musculoskeletal Disorders Among Cashew Factory Workers. Arch Environ Occup Health 2012; 67(1): 37-42
- 10. K. Vaishali, K. Vijaya Kumar, PrabhaAdhikari, B. UnniKrishnan. Effects of Yoga-Based Program on Glycosylated Hemoglobin Level Serum Lipid Profile in Community Dwelling Elderly Subjects with Chronic Type 2 Diabetes Mellitus—A Randomized Controlled Trial. Physical & Occupational Therapy in Geriatrics March 2012, Vol. 30, No. 1: 22–30.
- 11. Babu AS, Noone MS, Narayanan SM, Franklin BF. Home based rehabilitation for angina: A case report. Oman Med J 2012;27(2)
- 12. Gautam AP, Fernandes DJ, Vidaysagar MS, Maiya AG. Low Level Helium Neon Laser therapy for chemoradiotherapy induced oral mucositis in oral cancer patients A randomized controlled trial. Oral Oncol. 2012 Sep;48(9):893-7.
- 13. Babu AS, Vasanthan LT. Regarding "Acute respiratory distress syndrome: A clinical review" Pulm Cir 2012;2(2):226
- 14. Babu AS. On-call physiotherapy: Where are we and what lies ahead? J Novel Physiother 2012;2:e123
- 15. Babu AS, Babu AS. The expanding sphere of primary prevention for coronary artery disease in persons with erectile dysfunction. Oman Med J 2012;27:258-259
- 16. Dixit S, Maiya AG, Umakanth S, Shastry BA. Closure of non-healing chronic ulcer in Klippel–Trenaunay syndrome using low-level laser therapy. BMJ Case Reports 2012; doi:10.1136/bcr-2012-006226
- 17. Babu AS. Critical care rehabilitation A neglected part of ICU care. Oman Med J 2012;27:286
- 18. Gupta S, Raja K. Responsiveness of Edinburgh Visual Gait Score to Orthopedic Surgical Intervention of the Lower Limbs in Children with Cerebral Palsy. Am J Phys Med Rehabil 2012 Sep;91(9):761-7.
- 19. Ramachandra P, Maiya AG, Kumar P. Test-Retest reliability of the Win-track platform in analyzing the gait parameters and plantar pressures during barefoot walking in healthy adults. Foot Ankle Spec 2012;Oct 5(5):306-12
- 20. Reddy RS, Maiya AG, Rao S. Effect of dorsal neck muscle fatigue on cervicocephalickinaesthetic sensibility. Hong Kong J Physiother 2012;30:105-109
- 21. Gautam AP, Fernandes DJ, Vidyasagar MS, Maiya AG, Nigudgi S. Effect of low-level laser therapy on patient reported measures of oral mucositis and quality of life in head and neck cancer patients receiving chemoradiotherapy-a randomized controlled trial. Support Care Cancer. 2012 Dec 8. [Epub ahead of print]
- 22. Gautam AP, Fernandes DJ, Vidyasagar MS, Maiya AG, Vadhiraja BM. Low level laser therapy for concurrent chemoradiotherapy induced oral mucositis in head and



- neck cancer patients a triple blinded randomized controlled trial. RadiotherOncol. 2012 Sep;104(3):349-54. doi: 10.1016/j.radonc.2012.06.011. Epub 2012 Aug 10.
- 23. Syed N, Maiya AG, Hanifa N, Goud S. Plantar pressures in diabetes with no known neuropathy. J Diabetes. 2012 Nov 28. doi: 10.1111/1753-0407.12016. [Epub ahead of print]
- 24. Syed N, Karvannan H, Maiya AG, Binukumar B, Prem V, Chakravarty RD. Plantar pressure distribution among asymptomatic individuals: a cross-sectional study. Foot Ankle Spec. 2012 Apr;5(2):102-6

2013 (02)

- 1. Arena R, Guazzi M, Briggs P, Cahalin LP, Myers J, Kaminsky L, Forman DE, Cipriano G, Borghi-Silva A, Babu AS, Lavie CJ. Promoting Health and Wellness in the Workplace: A Unique Opportunity to Establish Primary and Extended Secondary Cardiovascular Risk Reduction Programs. Mayo Clin Proc 2013;88(6):605-617
- Samuel DAAJ, Solomon MJ, Mohan D. Postural Sway in Dual-task Conditions between Spastic Diplegic Cerebral Palsy and Typically Developing Children. Int J Health Rehabil Sci. 2013; 2(2): 91-97

2014 (04)

- 1. Veluswamy SK, Maiya AG, Nair S, Guddattu V, Nair NS, Vidyasagar S. Awareness of chronic disease related health benefits of physical activity among residents of a rural South Indian region: a cross-sectional study. Int J Behav Nutr Phys Act. 2014 Feb 27;11(1):27. doi: 10.1186/1479-5868-11-27
- 2. Babu AS, Jacob NSM, Prakash H. Non-pharmacological pain interventions to reduce post-operative opioid requirement in high risk groups. Rapid response to: Rates and risk factors for prolonged opioid use after major surgery: population based cohort study. BMJ 2014. http://www.bmj.com/content/348/bmj.g1251/rr/688868)
- 3. Reddy AV, Prasad BCM, Reddy RG, Maiya AG. A prospective randomized controlled trial on the effectiveness of Low intensity laser therapy on the wound healing dynamics in pressure ulcers. IJPRBS, 2014; 3(2): 707-715
- 4. Gungor H, Zencir C, Babu AS, Akgullu C, Eryilmaz U, Zorlu A, Gul I, Selvi M, Onay S, Kurtoglu T. Influence of preoperative coronary collateral circulation on in-hospital mortality in patients undergoing coronary artery bypass graft surgery with intra-aortic balloon pump support. *Chinese Med J (Engl)* 2014;127(17):3077-81 Indexed: PubMed, Impact factor: 1.2

Department of Health Information Management

Year 2012 (08 Numbers)

- 1. Jathanna, Roopalekha PN (2013) Determinants of Depression among Informal Caregivers of Persons with Dementia. International Journals of Multidisciplinary Research, 1 (12). pp. 18-21. ISSN 2277-9302
- 2. Saha, Dola and Nur, Ibrahim Mohammed (2012) Perception of Medical Students about Electronic Discharge Summaries. Research & Reviews: A Journal of Health Professions, 2 (3). pp. 18-29. ISSN 2277-6192
- 3. Saha, Dola (2012) Management of Health Information Technology in Indian Hospitals. Research & Reviews: A Journal of Health Professions, 2 (1). pp. 12-16. ISSN 2277-6192



- 4. Mary, Geena S and Nair, SN and Roopalekha, J (2012) Analysis of the satisfaction profile of patients using a hospital based health insurance scheme: A cross sectional study. Management in Health, 16 (2). pp. 32-35.
- 5. Reshmi, Bhageerathy and Nair, Sreekumaran N and Sabu, KM (2012) Awareness, attitude and their correlates towards health insurance in an urban south Indian population. Management in health, 16 (1). pp. 32-35.
- 6. Sinha, Rajesh Kumar and Thankachan, Merlin (2012) Perception of Nursing Professionals Towards eHealth Application. International Journal of BioSciences and Technology, 5 (14). pp. 76-81. ISSN 0974 3987
- 7. Sinha, Rajesh Kumar and Saha, Dola and Shetty, Sriraksha (2012) Perceptions of Health Information System. British Journal of Healthcare Management, 18 (10). pp. 533-538.
- 8. Saha, Dola and Reshmi, B and Sabu, KM (2012) A social audit of private hospital services in India. British Journal of Healthcare Management, 18 (7). pp. 383-387.

Dept. of Speech & Hearing

Year 2012 (18 Numbers)

- 1. Ayas.M, Kanaka G., Rajashekhar.B. Evaluation of self reported hearing aid outcome using disease specific questionnaires in hearing impaired adults International Journal of current research and review 4(15),29-36 (August)
- 2. Archana G, , Ayas, Saffa Application of Auditory evoked potential in differentially diagnosing jugular schwannoma from acoustic schwnnoma. International journal of scientific research.1(3).79-81. (August)
- 3. Archana.G, Ayas, Maya, Jyoti Can hormonal imbalance cause Auditory neuropathy? International journal of scientific research, 1(3),77-79 (August)
- 4. Sadanand Gore, Hari Prakash P Comparison of Thresholds of Single Frequency and Multi Frequency Auditory Steady State Responses in Normal Hearing Adults Global research analysis, vol. 1, issue 2,85-87 (July)
- 5. Hari Prakash P, Prabhu K Pilot study of Salivary Butyrylcholinesterase, Phosphodiesterase, Thiols and Ceruloplasmin in Auditory neuropathy Asian Pacific Journal of Tropical Biomedicine. 2, 471-474 (2012)
- 6. Prasanna V, Sunila J, Rajashekhar B Effects of Mand Training on Negative Behaviours and Verbal Behaviour Development: A Case Study Global research analysis, vol. 1, issue 2,79-81 (July)
- 7. Hariprakash P, Sangeetha G, Bhargavi PG Transient auditory dyssynchrony due to non maturational causes evidenced by ABR: a case report International journal of scientific research, 1(2), 144-146 (July)
- 8. Archana G, Ayas. Saffa Application of Auditory evoked potential in differentially diagnosing jugular schwannoma from acoustic schwnnoma. International journal of scientific research.1(3).79-81. (August)
- 9. Archana.G, Ayas, Maya, Jyoti Can hormonal imbalance cause Auditory neuropathy? International journal of scientific research, 1(3),77-79 (August)
- 10. Sadanand Gore, Hari Prakash P Comparison of Thresholds of Single Frequency and Multi Frequency Auditory Steady State Responses in Normal Hearing Adults Global research analysis, vol. 1, issue 2,85-87 (July)
- 11. Ayas M, Archana G, Rajashekhar B Perceptual challenges in auditory neural processing in neuro degenerative conditions like Fredreich Ataxia International journal of scientific research, vol. 1, issue 2, 142-144 (July)
- 12. Ayas Muhammed, Archana, Kishan, Hariprakash, Prajakta, Prabhu Clinical applications of Speech Evoked Cortical Auditory Potentials (SECAPs) in Pediatric Hearing assessment & Aural habilitation- A case report Global research analysis, vol. 1, issue 2, 88-90 (July)

www.manipal.edu



- 13. Venkataraj Aithal, B Rajashekhar, Sunila John, Cigi Varghese, Vasudev Guddattu Acoustic Analysis of Voice in Normal and High Pitch Phonation: A Comparative Study Folia Phoniatr Logop 2012;64:48-53
- 14. Krishna Y, B. Rajashekhar Vowel Space Areas across Age, Gender and Dialects in Telugu Language in India, Volume 12: 1, 357-369. ISSN 1930-2940. ISSN 1930-2940 (January)
- 15. Anuradha Shastry, Shruthi Nayak, Veena K.D, Sunila John Measuring the Whole Word Complexity in Tulu Speaking Children between 3 to 4 Years of Age Language in India www.languageinindia.com12: 9 September 2012,715-725.
- 16. Ranjana Elizabeth James, Kishan M M, Prasanna V Audiological Profile In Osteogenesis Imperfecta: A Case Report International journal of scientific research, vol. 1, issue 3, 83-84, ISSN NO 2277-8179 (August)
- 17. Rathika R., Dr. G. Kanaka., Sunila John, Dr. Rajashekhar B., Disfluencies in Typically Developing Tamil Speaking Children between 4 8 Years Language in India www.languageinindia.com 12:11 November 2012, 479-497
- 18. Veena K.D, Ayas Muhammed, Niyathi Chopra, Venkataraja Aithal U., Rajashekhar B., Outcome of Language-Based Intervention in Persons with Bilingual Wernicke's Aphasia A Case Study Language in India www.languageinindia.com 12:9 September 2012,726-744.

Year 2013 (06 Numbers)

- 1. Krishnan, G., Tiwari, S., & Kiran, S. Two Routes to read in Kannada? Evidence from bi-literate Kannada-English) persons with brain damage. Procedia-Social and Behavioral Sciences, 94, 202.
- 2. Tiwari, S., Krishnan, G., & Kiran, S. Manifestation of Surface Agraphia in an Alphasyllabary: Evidence from Kannada-English Biliterates with Acquired Brain Damage. Procedia-Social and Behavioral Sciences, 94, 166-167.
- 3. Venkataraja Aithal U, Ajith Kumar U, Kishan M M, Johnson Alex, Mythri H M. The relationship of perceived severity of tinnitus with depression, anxiety, hearing status, age and gender in individuals with tinnitus. International Tinnitus Journal 18 (1) 29-34
- 4. Venkataraja Udupi Aithal Veena V. Pillai, ThomasZacharia, Bellur Rajashekhar. Development and standardization of tinnitus handicap inventory in Malayalam. International Tinnitus Journal. 2013;18(2):129-133
- 5. Devadas U, Rajashekhar B. The prevalence and impact of voice problems in call center operators. Journal of Laryngology and Voice, Vol 3, Issue 1, 3-9, Jan-June 2013
- 6. Gopee Krishnan and Shivani Tiwari. Differential Diagnosis in developmental and acquired neurogenic stuttering: Do fluency-enhancing conditions dissociate the two? Journal of Neurolinguistics, 26, 252 257 (March)

Year 2014 (08 Numbers)

- 1. Praveena J, Prakash H, Rukmangathan T M. Auditory Neuropathy: Better Language Outcomes in Small Study. The Hearing Journal, 67 (11), 29-34 (November) doi: 10.1097/01.HJ.0000457009.79060.0f
- 2. Praveena J, Prakash H, Rukmangathan T M. Language Outcomes Using Hearing Aids in Children with Auditory Dys-synchrony. Audiology Research, 4 (1) November doi: 10.4081/audiores.2014.80
- 3. Ravi R, Gunjawate D, Ayas M. Audiology occupational stress experienced by audiologists practicing in India. International Journal of Audiology (Early Online November, 1-5)



- 4. Maruthy S, Mallet M K, Bellur R. Comparison of Esophageal and Tracheosophageal Speech Modes in Dual-Mode Alaryngeal Speakers. Journal of Laryngology and Voice (Jan June 2014, Vol 4, Issue 1, 6-11)
- 5. Veena KD & Rajashekhar, B. Development of communicative gestures in normally developing children between 8 and 18 months: An exploratory study. Journal of Early Childhood Research, published online before print July 29, 2013, doi:10.1177/1476718X13489813
- 6. Sunila John and B Rajashekhar. Word retrieval ability on semantic fluency task in typically developing Malayalam-speaking children. Child Neuropsychology: A Journal on Normal and Abnormal Development in Childhood and Adolescence, 20(2), 182-195.
- 7. John, J., Kanaka G., John S., & Rajashekhar, B. Normative for Motor Speech Profile in Kannada-Speaking Adults. Journal of Voice, 28(1), 7-13 (January 2014)
- 8. Gunjawate. D, Aithal U.V, Rajshekhar,B. Acoustic analysis of Taar Saptak in Indian Classical Trained Singers. Proceedings of the International Symposium Frontiers of Research on Speech and Music (FRSM-2014); 13-14, March 2014; pg.61-65

Dept. of Medical Laboratory Technology

Year 2012 (04 Numbers)

- 1. Saleena U V, M S Athiyaman, Donald F, BM Vadhiraja, R Prabhu, Nalini K. Evaluation of urinary tubular enzymes for the detection of early kidney injury due to cisplatin chemotherapy. Int J Biol Med Res. Vol 3, (2012). ISSN: 0976 6685
- 2. Saleena Ummer V, Asha Das, Biomarkers for therapeutic response in cervical cancer, IJPSR (2012), vol. 3, issue 9
- 3. Saleena U V, Athiyamaan M S, Vadhiraja B M, R Prabhu, Nalini K. Urinary α-Glutathione-s-transferase variations in cisplatin treated cancer patients with and without kidney injury, IPCBEE (2012), vol. 31 pp. 32-36, ISSN: 2010-4618
- 4. Saleena U V, M S Athiyamaan, B M Vadhiraja, R Prabhu, K Nalini. Evaluation of urinary α -glutathione -s-transferase(α -GST) as a marker of early cisplatin induced kidney injury, IJBBB (2012), vol. 2(4)

Year 2013: (06 Numbers)

- 1. Maya Roche, Ronald A Roche, Saritha Kamath. U. Immunoreactive α2-macroglobulin in tubal pregnancy: A possible tool for early diagnosis. International Journal of A J Institute of Medical sciences 2 (2013), 13-16
- 2. Kamath SarithaU, Prabhu Ravindra A, Patil Asha, Bandreddi Suprabha; Prevalence Of Anemia In Patients Undergoing Maintenance Hemodialysis In A Tertiary Care Setting; Int j clin surg adv 2013; 1(2):16-21
- 3. Patil A, Nayak DM, Belurkar SV. Internal Quality control of erythrocyte sedimentation rate with patient blood sample. Int J Cur Res Rev, March 2013; 5(05): 105-110.
- 4. Patil A, Nayak DM, Belurkar SV, Verma S. Assessment of Diesse Vesmatic 80/20 plus with modified Westergren method, IJSRP 2013 (accepted)
- 5. Nayak DM, Manohar C, Saroja, Patil A. Comparison of Photo-Optical and Mechanical Methods for Prothrombin Time Test, IJAR 2013; 3(9):457-458.
- 6. Sinha, Rajesh Kumar, Vivek M. Raghavan, and Sunronce Pias. "Quality Evaluation of Clinical Biochemistry Laboratory against ISO 15189: 2007



Standard." International Journal of BioSciences, Healthcare Technology and Management 5.2 (2013): 11-15.

Year 2014: (07)

- 1. Saritha Kamath U, Nalini Bhaskaranand, Anjali Rao Role of early intervention in a family of affected siblings with suspected mitochondrial disorder. World journal of pharmaceutical research Vol. 3 (2), 2014.
- 2. Agarwal A, Nayak Deepak M., Patil Asha, Manohar Chethan, Glucose 6 Phosphate Dehydrogenase Deficiency Unmasked by Diabetic Ketoacidosis: An Underrated Phenomenon, Journal of Clinical and Diagnostic Research. 2013 Dec;7(12): 3012-3013.
- 3. Nayak Deepak M, Manohar Chethan, Nayak Rathnavathi PA. Microcytic Erythrocytes Mimicking Platelets On An Automated Analyzer. Int J Pharm Pract Drug Res. 2014;4(2):89–91.
- 4. Nayak Deepak M, Patil Asha, Belurkar Sushma, Manohar Chethan Verma S. Validation of vesmatic 20/20 plustm machine for measurement of erythrocyte sedimentation rate. Int j clin surg advj. 2014;2(1):83–8.
- Saritha Kamath U, Nalini Bhaskaranand, Anjali Rao. Spectrum of Clinical Symptoms in Children with Elevated Lactate: Pyruvate Ratio in a Tertiary Care Setting. Asian Journal of Biomedical and Pharmaceutical Sciences 4 (29) 2014: 34-38.
- Shobha K. L, Kusumakshi, Anand K. M, Gowrish Rao. S, Jessica D'souza, Ramachandra L. Isolation of Streptococcus species from throat swabs of school going children. International Journal of Pharmacology and Toxicology, 2 (2) (2014) 86-87
- 7. John Mathew R, Raj N, Raghavan V, Kamath G, Kamath A, Velladath Saleena U, et al. Acute kidney injury in post cardiac surgery An evaluation with eGFR (Estimated glomerular filtration rate) and akin Criteria. WebmedCentral Clinical Biochemistry 2014;5(11)

Dept. of Medical Imaging Technology

Year 2012 (13 Numbers)

- 1. Sukumar, Suresh and Yadav, Sushil (2013) <u>CT Scan automatic tube current modulation.</u> International Journal of Pharmacy and Biological Sciences, 3 (1). pp. 511-520. ISSN 2230-7605
- 2. Sukumar, Suresh and Yadav, Sushil and Sahana, S and David, Leena R and Kumari, Mona (2012) *X Ray image reject analysis in OPD X ray Department- A pilot study*. International Journal of Medical and Pharmaceutical Sciences, 3 (2). pp. 33-
- 3. Sukumar, Suresh and Yadav, Sushil and Manju, HB (2012) <u>3D Reconstruction computer tomography of foramen magnum and fronto nasal junction for sex determination in south indian population.</u> International Journal of Pharma and Bio Sciences, 3 (4B). pp. 615-619. ISSN 0975-6299
- 4. Sukumar, Suresh and Yadav, Sushil (2012) <u>Does Radiographer Aware of Hospital Acquire Infection in Radiology Department-A case Report.</u> International Journal of Current Research and Review, 4 (19). pp. 150-153.
- 5. Sukumar, Suresh and Yadav, Sushil and Paliwal, Karuna (2012) <u>Infection in Radiology Department.</u> International Journal of Pharmacy and Biological Sciences, 2 (4). pp. 119-122. ISSN 2230-7605



- 6. Sukumar, Suresh and Yadav, Sushil (2012) <u>Infection risk control in "Computer Radiography imaging plate" in diagnostic radiology department.</u> International Journal of Current Research and Review, 4 (17). pp. 139-143.
- 7. Sukumar, Suresh and Yadav, Sushil and Ismail, Afra (2012) *Quality assurance* procedure for diagnostic X-Ray machines (Test followed in India). International Journal of Medical and Pharmaceutical Sciences, 3 (1). pp. 25-30.
- 8. Sukumar, Suresh and Yadav, Sushil and Vimal Kumar, M and Manju, HB (2012) <u>Sex Determination by Mastoid Process in South Indian Population.</u> International Journal of Current Research and Review, 4 (18). pp. 133-137.
- 9. Kumar, Vimal M and Sukumar, Suresh and Mamatha, H (2012) <u>Computed Tomograpic Studies on Sphenoid Sinus Variants.</u> Int J Pharm Bio Sci, 3 (3). pp. 482-486.
- 10. Sukumar, Suresh and Yadav, Sushil (2012) <u>Magnetic Resonance Imaging of Routine</u> <u>shoulder protocols.</u> Global Research Analysis, 1 (2). pp. 75-76. ISSN 2277 8160
- 11. Sukumar, Suresh and Yadav, Sushil (2012) *Quality Assurance Procedure for*<u>Computerised Tomography Scanners(Test Followed In India).</u> Global Research
 Analysis, 1 (2). pp. 71-74. ISSN 2277 8160
- 12. Sukumar, Suresh and Yadav, Sushil (2012) <u>Study on Sphenoid Sinsuses Variants in Magnetic Resonance Imaging of South Indian Population.</u> International Journal of Scientific Research, 1 (2). pp. 147-148. ISSN 2277 8179
- 13. Sukumar, Suresh and Yadav, Sushil and Vipinkumar, G (2012) <u>Sex Determination</u> <u>by Mastoid Process in South Indian Population by 3d Computer Tomography Imaging.</u> International Journal of Pharmacy and Biological Sciences, 2 (4). pp. 193-195.

Year 2013 (02)

- 1) Sukumar, Suresh and Yadav, Sushil and Paliwal, Karuna (2013) <u>Comparison between CT Scan and manual method of area measurement of mastoid process in sex determination of south indian polulation.</u> International Journal of Pharmacy and Biological Sciences, 3 (1). pp. 536-539. ISSN 2230-7605
- 2) Winnieciadkhar, * (2013) <u>Mammography.</u> International Journal of Pharma and Bio Sciences, 4 (2). pp. 1106-1111. ISSN 0975-6299

Dept of Occupational Therapy

Year 2012 (07 Numbers)

- 1. Banumathe, KR and Guruprasad, V (2012) Effectiveness of sensory motor and behavior therapy on drooling in children with cerbral palsy. Physiotherapy and Occupational Therapy Journal, 5 (3). pp. 133-138
- 2. V. Guruprasad, Mrs. KR. Banumathe, T. Balakrishnan Effectiveness of Videotaped/Photographs in Teaching Handling Techniques for Caregivers of children with Spastic Cerebral palsy, Global research analysis, Vol:1, Issue: 2, ISSN No. 2277-8160, 82-84, July 2012
- 3. Mrs. KR. Banumathe, V. Guruprasad, Leena Ann Lukose A Study to find out the Prevalence and effectiveness of Occupational Therapy intervention for pain and activity performance in mobile users with risk of repetitive strain injury, International journal of scientific research, Vol:1, Issue: 2, ISSN No. 2277-8179, 149-151, July 2012
- 4. V. Guruprasad, Dr. Sebestina A D'souza, Mrs. KR. Banumathe Modified falls behavioral scale for Indian community dwelling older adults International journal of scientific research, Vol:1, Issue: 2, ISSN No. 2277- 8179, 152-154, July 2012
- 5. K.R Banumathe, Vineeta I. Ram, Alzeena Pinto, Samuel JonathanAn observational study on sensory based outdoor play preference in children aged between 3 to 12



- years: a preliminary study, International journal of current research and review, Vol. 04, Issue 17, pissn2231-2196, Page 20 to 28, September,
- 6. V. Guruprasad, Mrs. KR. BanumatheDr. E Sinu Leisure and its impact on well being in school children, International journal of scientific research Vol:1, Issue: 5, ISSN No. 2277- 8179, 114, October
- Guruprasad V, Banumathe KR Application of occupational performance model in occupational therapy for rehabilitation in medical conditions – a case study., International journal of health Science and research Vol 2, Issue 8 ISSN 2249-9571, 111 113, Nov 2012

Year 2013 (06 numbers)

- 1. Sau, Koushik (2013) Reducing the knowledge gap between developed and developing countries. British Journal of Occupational Therapy, 76 (8). p. 387. ISSN 0308-0226
- 2. Sau, Koushik and Guruprasad, V (2013) Facebook and Occupational Therapy Profession. International Journal of Medical Research & Health Sciences, 2 (3). pp. 660-661. ISSN 2319-5886
- 3. Guruprasad, V and Sau, Koushik and Vidyasagar, Sudha and Varma, Muralidhar (2013) Functional Rehabilitation of a Patient with Post Stroke Cerebellar Cognitive Affective Syndrome A Single Case Study. International Journal of Health Sciences and Research, 3 (5). pp. 107-110. ISSN 2249-9571
- 4. Sau, Koushik (2013) Facts About Journal Publishing in Open Access Policy. Indian Journal of Medical Research, 138. pp. 1029-1030.
- 5. D'souza, Sebestina A (2013) An Integrated Multimodal Intervention of Remedial and Adaptive Approaches in Secondary Dystonia of Hand: A Case Report. Disability, CBR and Inclusive Development, 24 (2). pp. 100-110.
- 6. Sau, Koushik (2013) Occupational Therapy Marketing Indian Prospective. Scientific Research Journal of India, 2 (3). pp. 59-66. ISSN 2277-1700

Year 2014 (5 numbers)

- 1. Guruprasad, V and Banumathe, KR (2014) Bell's Palsy & its impact on various areas of occupation. Scientific Research Journal of India, 3 (3). pp. 136-138. ISSN 2277-1700
- 2. Sau, Koushik and Sridhar, D and Kumar, Sanjiv (2014) Ethical Challenges for Occupational Therapist in India to Use Social Media. Scientific Research Journal of India, 3 (1). pp. 52-57.
- 3. D'souza, Sebestina A and Rajashekar, B and D'souza, HS (2014) Falls in Indian Older Adults: A Barrier to aActive Ageing. Asian Journal of Gerontology & Geriatrics, 9 (1). pp. 33-40.
- 4. D'souza, Sebestina A and Saha, Shovan (2014) Impact of International Collaborative Project on Cultural Competence among Occupational Therapy Students. The Open Journal of Occupational Therapy, 2 (3). pp. 1-18.
- **5.** Acharya, Vinita (2014) preparing for motherhood: a role for occupational therapy. WFOT Bulletin, 70 (1). pp. 16-17. ISSN 1447-3828

Dept of Optometry

Year 2012 (05)

- 1. Krithica Srinivasan ,Ramesh SV, Babu N, Sanker N, Ray A, Karuna SM -Efficacy of a remote based computerised visual acuity measurement British Journal Ophthalmology, Volume 96- page no. 987-990
- 2. Nijil Sankar Prabhu A, Ray A -A comparison of near dissociated heterophoria tests



- in free space-Clinical and experimental Optometry –Volume 95-issue-6,page no. 638-42
- 3. Naushad B ,Saoji Y, Premjit Bhakat, Jyothi Thomas Contact lens compliance among a group of young, university-based lens users in South India –Australasian Medical Journal Volume 5 Issue 3 Page No. 168-74
- 4. Noushad B, Jyothi Thomas, Shristi V Amin Reliability of a modified log MAR distant visual acuity chart for routine clinical use Oman Journal of ophthalmology Volume 5 Issue 2 –Page No. 87-90
- 5. Thomas J , Jacob GP, Abraham L, Noushad B. The effect of smoking on the ocular surface and the precorneal tear film , Australasian Medical JournalVolume 5, issue 4 page no. 221-26

Year 2013 (03)

- 1. Nilesh Thitte, Babu Noushad., Gauri Kunjeera Contact lens prescribing pattern in India 2011 Contact lens and Anterior Eye -Volume 36, Issue 4- page no. 182-5
- Nijil Sanker , Babu Noushad Trend of soft contact lens prescribing in an Optometry centre in In India: A six year analysis - Contact lens & Anterior eye Volume 36 Issue 4, page No. 196-98
- 3. Nijil Sanker, Sayyeda Dhiranai, Premjit Bhakat, Comparison of visual acuity results in preschool children with Lea Symbols and Bailey-Lovie E chart Middle East African Journal of Ophthalmology Volume 20, issue 2, page no. 345-48

Year 2014 (01)

1. Sreelatha OK, Ramesh S Ve, Judy Jose, Mredula Devassy, Krithica Srinivasan, Virtually controlled computerised visual acuity screening in a multilingual Indian population - Rural and remote health, Volume 14, issue-2908 page No. 1-8

Dept of Respiratory Therapy

2012 (14)

- 1. **Anitha Shenoy** Respiratory therapy in India Pg 01, Volume 1: Issue 1, Jan 2012
- 2. **Anitha Shenoy** Current issues in mechanical ventilation Pg 15, Volume 1: Issue 1, Jan 2012
- 3. **Eribaweimon Shilla, Leslie Lewis** Basic neonatal and paediatric ventilation Pg 21, Volume 1: Issue 1, Jan 2012
- 4. **Abhishek Vaidya** Transport of critically ill patient Pg 28, Volume 1: Issue 1, Jan 2012
- 5. **Saumy Johnson**, Anitha Shenoy Noninvasive ventilation in acute respiratory failure: A study of clinical outcome and correlates for success Pg 32, Volume 1: Issue 1, Jan 2012
- Meeti Sivadas, Anita Shenoy Noninvasive ventilation in patients with acute cardiaogenic pulmonary oedema: A prospective study to quantify adequate PEEP – Pg 37, Volume 1: Issue 1, Jan 2012
- 7. **Eribaweimon Shilla**, Leslie Lewis Noninvasive respiratory support in preterm neonate with hyaline membrane disease: Bubble CPAP vs. Conventional CPAP A randomized controlled trial Pg 42, Volume 1: Issue 1, Jan 2012
- 8. **Ramesh Unnikrishnan,** Anitha Shenoy Clinical outcomes of patients admitted with Organophosphorous poisoning in a tertiary hospital in Udupi district Pg 59, Volume 1: Issue 1, Jan 2012



- 9. **Prathibha Todur, Saumy Johnson, Anitha Shenoy** Airway pressure release ventilation for management of life-threatening adult respiratory distress syndrome secondary to fat embolism syndrome Pg 66, Volume 1: Issue 1, Jan 2012
- 10. **Eribaweimon Shilla , Pushpa Kini -** Paediatric mechanical ventilation Pg 124, Volume 1: Issue 2, July 2012
- 11. **Saumy Johnson, Elna Eldo, Ashley Varghese** Comparison of FDO2 at different flow rates in an adult manual resuscitator with and without reservoir bag: A manikin study Pg 140, Volume 1: Issue 2, July 2012
- 12. Shyamsunder Kamath, **Anitha Shenoy** Comparison of D blade with the conventional blade of C-MAC for endotracheal intubation in patients with simulated limitation of cervical movements. Pg 144, Volume 1: Issue 2, July 2012
- 13. **Anil Kalarickal, Saumy Johnson**, Anitha Shenoy Comparison of acute Physiology and Chronic Health Evaluation(APACHE) IV and simplified Acute Physiology score(SAPS) II in a Tertiary care hospital ICU in India Pg 156, Volume 1: Issue 2, July 2012
- 14. **Saumy Johnson, Eldo Vijo** role of noninvasive ventilation for acute respiratory failure due to snakebite Pg 167, Volume 1: Issue 2, July 2012

2013 (08)

- 1. **Tisha Ann Skariah, Leslie Lewis, Arun Sasi** Noninvadive ventilation in preterm neonates Nasal continuous positive airway pressure versus Nasal intermittent positive pressure ventilation Pg 206, Volume 2: Issue 1, Jan 2013
- 2. **Gordan R Kharmalki, Anitha Shenoy, Saumy Johnson** Utility of rapid shallow breathing index in progressive weaning of adult patients from mechanical ventilation using pressure support ventilation Pg 213, Volume 2: Issue 1, Jan 2013
- 3. **Prathibha Todur, Saumy Johnson, Anitha Shenoy** Utility of arterial to endtrial carbon dioxide difference [P(a ET)CO2] as a weaning index Pg 227, Volume 2: Issue 1, Jan 2013
- 4. Heera Lal Mehto, Vishal Shanbag, Anitha Shenoy efficacy of recruitment manoeuvre with or without antiderecruitment strategy in ARDS patients: A prospective study, IJRC: Volume 2: Issue 2, July 2013
- 5. Sanjay Sasikumar, Vishal Shanbag, Anitha Shenoy comparison of pressure support ventilation and proportional assist ventilation plus for weaning from mechanical ventilation in critically ill patients, IJRC: Volume 2: Issue 2, July 2013
- 6. Praveen Jacob John J, Saumy Johnson, Anitha Shenoy comparion of 5 weaning indices in predicting successful weaning from mechanical ventilation, IJRC: Volume 2: Issue 2, July 2013
- Shyamsunder Kamath, Anitha Shenoy anaesthetic management of a huge mediastinal tumor with tracheobronchial compression, IJRC: - Volume 2: Issue 2, July 2013
- 8. Akhila CBG, Ramesh Unnikrishnan gloriosa superb poisoning A case report, IJRC: Volume 2: Issue 2, July 2013

Department of Clinical Psychology

Year 2013 (02)

- 1. Sahana, M and Bhat, SM and Haridas, K (2013) Unconsummated marriage and its etiological factors: A case series. Middle East Journal of Psychiatry & Alzheimers, 4 (2). pp. 18-22.
- 2. Aithal, Venkataraja U and Mohan, Kishan Madikeri and Alex, J (2013) The relationship of perceived severity of tinnitus with depression, anxiety, hearing status,



age and gender in individuals with tinnitus. International Tinnitus Journal, 18 (1). pp. 29-34.

Year 2014 (01)

1. Sahana, M (2014) *Reminiscence therapy: An Overview*. Middle East Journal of Age and Ageing, 6 (5). pp. 18-22.

22G. Books

Dept. of Speech & Hearing

Year 2012 (03 Numbers)

- 1. Ganapathy M K, Hari Prakash P, Rajashekhar B. (2012). Brain stem encoding of Fundamental frequency in Cochlear Implant users. LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany. ISBN 978-3-659-17854-2. (July)
- 2. Kishan M M, Krishna Y, Abin (2012). "Temporal Signal Processing Of Hearing Impaired Through Hearing Aids" LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany. (ISBN 978-3-659-19783-3). (July)
- 3. Ayas Mohammad, Kanaka G, Rajashekhar B. (2012). Hearing aid outcomes using generic & disease specific questionnaires: Hearing aid outcome measures. LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany. (ISBN ISBN-13: 978-3659186523). (August)

22H. Chapter in Book

Dept of Speech and Hearing

Year 2014 (01 Number)

1. Dr. Krishna Y - A chapter on "Re/Habilitation of Adults with Cochlear Implants" in "The Cochlear Implants – An overview" ISHA Monographs edited by Dr. Madhuri Gore, Vol 13, No 2 ISHA. ISSN-0974-214X

22I. Conference

22Ii. Conference: National

Department of Physiotherapy

Year 2012 (05 Numbers)

- 1. Mr. Manikandan. N presented a paper on "Custom-made over ground body weight support system: standardization and feasibility in patients with stroke" in 49th Annual conference of IAP held on January 2011, Pune
- 2. Mrs. Preetha R presented a paper on "Comparison of Ankle Proprioception Between Pregnant and Non Pregnant Women" in 49th Annual conference of IAP held on January 2011, Pune
- 3. Dr. John Solomon. M presented a paper on "Effect of virtual reality training on upperlimb functions in patients with cerebellar disorders" in 49th Annual conference of IAP held on January 2011, Pune
- 4. Ms. Nivedita Prabhu presented a poster on "17th Annual Congress of the Indian Society of Critical Care Medicine and International Critical Care Congress, February 16 21, 2011, Vigyan Bhavan, New Delhi.



5. Mr. Ravi Shankar Reddy presented a paper on "Postural control in cervical spondylosis", Indian Orthopedic Congress "Conference on spinal injury and rehabilitation at Chandigarh, India

Year 2013 (02)

- Dr. Bhamini K Rao Has been invited as a session chairperson during International Conference on Developmental Pediatrics and Childhood Disability in 21st Century

 a new beginning with Innovative Approaches scheduled on 20th December 2013
 at , Kasturba Medical College, Attavar, Mangalore.
- 2. Dr. John Solomon has participated in the National conference on "Traumatic Brain Injury" held on 30th November 2013 which has been accredited for 10 credit points by the Tamil nadu Dr. M G R Medical University, Chennai

Year 2014 (02)

- 1. Dr. G Arun Maiya has participated as a plenary speaker in the Manipal Research Colloquim 2014 held at Manipal University, Manipal on April 11th & 12th 2014.
- 2. Dr. Manikandan has attended and participated in "PHYSIO ACCORD 2014" The national physiotherapy conference organized by Karnataka Physiotherapists at Manpho Convention Center, Bangalore Karnataka

Dept. of Medical Laboratory Technology

Year 2012 (01 Numbers)

1. Poster presentation on "Internal quality control for Erytrocyte sedimentation rate (ESR) using patient sample" by Asha Patil at CME for medical laboratory technologist conducted by TATA Memorial Hospital, Mumbai, Maharastra on 23 rd December 2012

Year 2013 (01 Numbers)

 K Ramya Shetty, B Muralidhara, Dr. Swati Sharma, Dr. Ranjini Kudva, Asha Patil. poster at TATA Memorial Hospital, Mumbai on 21st to 22nd December 2013 on "Cryostat-Frozen Sections: A Double Edged Sword Brief Review Of Literature And Audit Of Concordance Rate For A Period Of One And A Half Years In A Tertiary Care Hospital"-

Year 2014 (01 Numbers)

1. Attended and presented poster on 'Knuckle pigmentation warrants screening for vitamin B12 deficiency' at South regional conference of the Association of Clinical Biochemists of India 2014 held at KMC Mangalore on 22nd and 23rd May 2014

Dept. of Clinical Psychology

Year 2012 (08 Numbers)

- 1. Dr.Dinesh N: Present a paper on Imagery Training for dermatologists in non-pharmacological (psychological) interventions in dermatology, held at Kasturba Medical college, Manipal university, Karnataka, from 17th- 18th November 2012.
- 2. Ms.Sahana Madhyastha Delivered a lecture on organizational Stress Management for supervisory level employees of Manipal Technologies Ltd., Manipal on 7th February, 2012. Delivered a lecture on stress management and balancing work and personal life for mid management employees of Manipal Technologies Ltd., Manipal in May, 2012.
- 3. Delivered a lecture on Cognitive Behaviour Therapy in Depression in a workshop



- organized by Dr. A.V. Baliga Hospital on 10th October 2012 (World Mental Health Day)
- 4. Dr.Johnson Alex Invited speaker on Learning Disability Management at the National Conference of Pstchotherapy and counseling organized by SPSA calict Kerala form January 23-25 2012
- 5. Invited chief guest and delivered a keynote address on "Challenges and Significance of Psychology in the new era" at Psychoday celebration 2012 organized by KE Collage Mannanam Kottayam Keral and PAAM (Psychology Alumni Association Mannanam Invited speaker on "Assessment and Management of Learning Disabilities" organized by Kerala Kaumadi daily in Kannur Kerala 19th May 2012
- 6. Invited guest speaker on Identification and Management of Learning Disability at Madhava Kripa School, Manipal University Manipal
- Invited speaker on Psychosocial aspects of Pulmonary Rehabilitation at SOAHS, Dept of Respiratory Therapy –Pulmonary Rehabilitation update -2012 on 29th September 2012
- 8. Dr.Shweta RaiConducted a session on "Applications of Biofeedback" in workshop on Training programme for dermatologists in non pharmacological (psychological) interventions in dermatology, held at Kasturba Medical college, Manipal university, Karnataka, from 17th- 18th November 2012.

Year 2014 (02 Numbers)

- 1. Dr. Shweta Rai Paper titled "Early Maladaptive Schema in Somatoform Disorder" in 40th National Annual Conference of Indian Association of Clinical Psychologists NACIACP 2014
- 2. Ms. Sahana Madhyastha Paper titled "Stress and its Determinants in Medical Students" in 40th National Annual Conference of Indian Association of Clinical Psychologists NACIACP 2014

Department of Health Information Management

Year 2012 (02 Numbers)

- 1. Ms. Reshmi B, participated in national conference organized by 56th Annual National Conference of Indian Public Health Association, Kerala, from 10 12 February, 2012 & presented a paper "Acceptability of two community based health insurance schemesin Udupi district of Karnataka"
- 2. Ms. Reshmi B, participated in national conference Evidence based public health in low & middle income countries, Manipal from 7 -8 nov, 2012, & presented a poster "Systematic review on factors affecting takeup of community based health insurance in south Asian countries"

Year 2014 (02)

- 1) Rajesh Kumar Sinha "Changing Scenario of health information management in delivering quality healthcare" MEDRECON 2014
- 2) Dola Saha, "changing human resource requirements for health information management in India- challenges ahead" MEDRECON 2014

Dept. of Speech & Hearing

Year 2012 (24 Numbers)

 Akhila.S, Jeena John, Hari Prakash, Dr.B.Rajashekhar Charactersitics of DP fine structure & threshold fine structure in normal hearing individuals. ISHACON, January 19-21st, Hyderabad



- 2. Sadanand Gore, Prakruthi Shetty,Remya.M,Dr.Krishna, Knowledge ,attitude& practices about paediatric hearing loss among E.n.t.s,Paediatrician, General Physicians &Trainees, ISHACON, January 19-21st, Hyderabad
- Remya.M, Dr.Venkatraja Aithal, Dr.B.Rajashekhar. Outcome of awareness training on feeding stratergies in parents of cerebral palsy children ISHACON, January 19-21st, Hyderabad
- 4. Kiran. Gopeekrishnan Validation & preliminary standarization of stroke & Aphasia quality of life(SAQOL:39)scale in Kannada ISHACON, January 19-21st, Hyderabad
- 5. Hari.C,Rinnu Joseph,Hari Prakash, Dr.B.Rajashekhar. Latency intensity function for speech evoked auditory brainstem responses in normal hearing Individuals ISHACON, January 19-21st, Hyderabad
- 6. Maya Verma, Usha Devadas, Dr.B.Rajashekha. Vocal loading in dubbing artist, ISHACON, January 19-21st, Hyderabad
- Pratiti Giri, Jeny Sara Thomas, Sunila John, Dr.B.Rajashekhar Long term outcome of lactic acidosis on speech and Lang development ISHACON, January 19-21st, Hyderabad
- 8. Krithika Lakshmy, Dr.Venkatraja Aithal, Dr.B.Rajashekhar Radiation in laryngectomomae: A possible hindrance to successful surgical voice restoration in geriatric population. ISHACON, January 19-21st, Hyderabad
- 9. Prasanna V, Sunila John, Dr.B.Rajashekhar, Effect of mand training on negative behaviors and verbal behaviour development: a care study. ISHACON, January 19-21st, Hyderabad
- 10. Manisha Hegde,Archana G , Sunila John, Dr. Veena K D Dr. B. Rajashekhar Profile of phonological process in kanada speaking children with Downs Syndrome. ISHACON, January 19-21st, Hyderabad
- 11. Dr. Venkatraja Aithal, Vaidyanathan R., Dr.B.Rajashekhar "Development of interrogatives in Tulu speaking children" ISHACON, January 19-21st, Hyderabad
- 12. Veena KD, Rajashekhar Pointing gesture as a transition to spoken word development an exploratory study UGC National seminar on Language and Cognitive processes, 23-24 January, 2012
- 13. Sunila John, Rajashekhar Influence of socioeconomic status on verbal recall in children UGC National seminar on Language and Cognitive processes, 23-24 January, 2012
- 14. Sachin, L.C., Venkataraja Aithal U, B Rajashekhar., Sunila John., S<u>wathi Shetty.</u>, <u>S</u>hahin Nishad "Quality of life in tracheoesophageal speakers A Retrospective study" Laryngology update-2012, Annual conference of Laryngology and Voice Association held at KDAH, Mumbai during 4th-5th Feb 2012.
- 15. Jinu Anna George, Archana G, Dr. B. Rajashekhar ABR as a effective tool in diagnosis of upper brain stem lesion a case report Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- 16. Rukmangathan, Archana G, Mr. Hariprakash P, Dr. B. Rajashekhar Effect of progressive filtering of speech stimulus of speech ABR and its correlation with behavioral perception Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- 17. Safaa Asif, Archana G, Dr. B Rajashekhar Jugular Schwanoma A case report Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- 18. Nikita Lewis, Archana. Autism or hearing loss: Determining the cause of delay in expressive language skills in congenital rubella syndrome Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- 19. Aju Abraham, Hari Prakash P, Dr. B Rajashekhar Latency- intensity function for speech evoked late latency responses in normal hearing individuals Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal



- 20. Analisa P, Ayas Mohd. SECAP evidence on the processing of speech and non-speech stimuli through hearing aids Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- 21. Antony, Ayas Mohd. Auditory neuropathy in Friedreich Ataxia Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- 22. Neha Sodi, Ayas Mohd, Dr. Kanaka G Subcortical processing of speech in noise using speech evoked ABR in normal hearing adults Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal,
- 23. Ishita Mitra, Ayas Mohd. Subcortical representation of speech sounds in premature infants Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- 24. Andrea O, Ayas Mohd. Does late identification of hearing loss lead to irreversible cortical reorganization Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal,

Year 2013 (10 Numbers)

- 1. Snithin Sasheendran, Dr. Usha Devadas, Mr. Manoj M. Optimum pitch training in puberphonics using musical notes- treatment outcomes. 1st 3rd February, 45th ISHACON 2013, Chennai.
- 2. Vasudha Sharma, Dr. Usha Devadas. Post-operative rehabilitation in hemimandibulectomy-case report. 1st 3rd February, 45th ISHACON 2013, Chennai.
- 3. Praveena, J., Krishna, Y. Identifying speaker from disguised speech using aural perception & mel-frequency cepstral co-efficient. 1st 3rd February, 45th ISHACON 2013, Chennai.
- 4. Megha Mohan, Lavya A R, Sunila John, Hari Prakash P, B. Rajashekhar. Language switching in Tulu-Kannada sequential bilingual adults using event related potentials. 1st 3rd February, 45th ISHACON 2013, Chennai.
- 5. Reshma George, Mereen Rose Babu, Sunila John, Kanaka G, B. Rajashekhar. Effect of elicitation task on rate of speech in typically developing Malayalam speaking children between 4-6 years. 1st 3rd February, 45th ISHACON 2013, Chennai.
- Amritha Mohan, Anusree A K, Sunila John, B Rajashekhar. Knowledge and attitude of autism among health workers. "Blowing beyond Horizon", 14-16th March NIEPMD, Chennai
- 7. Krishna Kumari, Gayathri G, Shivani Tiwari and Kiran S. Language and Literacy profile in Kannada speaking children with SLI. 1st 3rd February, 45th ISHACON 2013, Chennai.
- 8. Himaja P, Alisha Dhamani, Archana G, B Rajashekhar. Effect of multi-talker babble over speech noise and its implications a comparative study. 1st 3rd February, 45th ISHACON 2013, Chennai.
- 9. Sharavathi R, Hariprakash P, B Rajashekhar. Effect of complexity of visual distracters and variable attention on auditory P300. 1st 3rd February, 45th ISHACON 2013, Chennai.
- 10. Rukmangathan T M, Praveena J, Hari Prakash P. Effect of amplification on language outcomes in children with auditory dysynchrony. 1st 3rd February, 45th ISHACON 2013, Chennai.

Year 2014 (12 Numbers)

- 1. Divya T, Lipsa S, Kiran, Aithal U V, Rajashekar B. Radiation effect on the TE Puncture Impeding Clinical Decision Making. 7-9 Feb, Kochi, 46th ISHACON
- 2. Gunjawate. D, Aithal U.V, Rajshekhar, B. High pitch phonation as a method of clinical evaluation of voice in trained singers A preliminary study. 7-9 Feb, Kochi, 46th ISHACON



- 3. Ravi R, Gunjawate. D, Mohd A, Rajshekhar, B. Occupational Stress among Audiologists practicing in India. 7-9 Feb, Kochi, 46th ISHACON
- 4. Prajna K, Aithal _U V, Rajashekar B. Sudden Enlargement of TE Puncture in a Geriatric TE Speaker A challenging situation in the Indian Scenario. 7-9 Feb, Kochi, 46th ISHACON
- 5. Janet J, Tina J, Kiran, Aithal _U V, Rajashekar B. Symptomatic Management of Prosthetic-Voice Complications in TEP Speakers with Recurrent Neopharyngeal Stricture: A Case Study.
- 6. Gunjawate. D, Aithal U.V, Rajshekhar, B. Acoustic analysis of Taar Saptak in Indian Classical Trained Singers. Frontiers of Research on Speech and Music (International Symposium) (FRSM-2014); 13-14, March 2014 at Mysore
- 7. Archana G, Krishna Y, Rajashekar B. Computerized auditory training module for individual with HI. Emerging trends towards innovation in health care and science in INDIA on 7th march 2014
- 8. Dr. Venkataraja Aithal U & Dr. Gopee Krishnan. Stress Buster. Emerging trends towards innovation in health care and science in INDIA on 7th march 2014
- 9. Greeshma T, Archana G. Olfactory neuroblastoma: a case report. Manipal University students research forum 2014 (April)
- 10. Jinu G, Archana G. Hyperacusis a case report. Manipal University students research forum 2014 (April)
- 11. Himaja, Kishan. Short term effects of Amplification on Working Memory in the Elderly. Manipal University students research forum 2014 (April)
- 12. Bhargavi P G, Archana G. Adult Aural Rehabilitation Is it required? Focused Group Discussion. Indian Speech and Hearing Association Tamil Nadu at Yercaud, 20-21 Sept, 2014

Dept of Optometry

Year 2012 (04)

- 1. Dr. Ramesh S Ve, Developmental and validation of Ocular Digital Adapter (OcuDA) Low cost anterior ocular imaging tool Innovation Day MUTBI Manipal University –Oral presentation
- 2. Mr. Chandan S Spectacle Dispensing Software in Innovation Day MUTBI Manipal Unoversity Oral Presentation on December 2012
- 3. Mr. Chandan S Effects on Filters on vision in 37th All India Optometric Conference oral presentation –
- 4. Mr. Avik Ray Recent advances –in contact lens essential for a beginner on March 2012

Year 2013 (05)

- 1. Dr. Ramesh SVe Manipal Remote refraction Program –study the efficacy of custom developed remotely operated vision and refractive error screening method in a hospital and community based population –in Pondicherry
- 2. Dr. Ramesh Sve- Performance and perceptions of objective structured practical examination for clinical optometry examination in chennai
- 3. Dr. Ramesh SVe –Students and Faculty driven Social entrepreneurship Model for dchool Eye care services: The manipal VARES chapter –in 12th Dr.EV memorial scientific session Elite School of Optometry National on March 2013 in chennai
- 4. Dr. Ramesh Sve –Ocular Digital Adapter –A Cost effective anterior eye imaging device Innovators Compitition on May 2013 in New Delhi
- 5. Mr. Avik Ry Optomed Recent innovations in vision 2020 in Bhopal

Year 2014 (02)



- 1. Ms. Krithica S Effect of Optical defocus on vanishing and conventional optotypes 13TH Dr. EV memorial Scientific session Elite school of Optometry I Chennai
- 2. Ms. Judy Jose: Awareness Knowledge and barriers to loe vision services 13th Dr. EV Memorial Scientific session Elite school of Optometry in chennai

Department of Occupational Therapy

Year 2012 (04 Numbers)

- 1. Ms. Vinita Acharya has contributed to the scientific program by presenting a scientific paper on "Problem Identification Grid Assessment Tool for Acute Mental Health Settings" at 49th National Conference of AIOTA held at Goa from 16th Jan, 2012 to 18th Jan 2012.
- 2. Ms. Sumedha Kamath has contributed to the scientific program by presenting a scientific paper on "Static Progressive Mitten Hand Splint" at 49th National Conference of AIOTA held at Goa from 16th Jan, 2012 to 18th Jan 2012.
- 3. Mr. Sanjiv Kumar has contributed to the scientific program by presenting a scientific paper on "Modified Thumb Opponence Splint" at 49th National Conference of AIOTA held at Goa from 16th Jan, 2012 to 18th Jan 2012.
- 4. Mr. Koushik Sau has presented scientific paper in the annual meet of Alumni Association of National Institute for the Orthopaedically Handicapped(NIOH) held on 22nd Jan, 2012 at NIOH, Kolkata. Topics of the presentation: "A Portfolio A Powerful Tool for Professional Development".

Year 2013 (04 Numbers)

- Mr. Koushik Sau presented paper title "Activity selection An Occupational Therapy Perspective" on XXXI Annual National Conference of Indian Society of Professional Social Work held organized by Department of Psychiatry, Kasturba Medical college, manipal university, Manipal, Karnataka From 3rd to 5th January 2013
- 2. Mr. Koushik Sau Presented paper title "Activities for stroke rehabilitation" on Annual meet of Alumni Association of National Institute for the Orthopedically handicapped held on 27th January, 2013 AT NIOH, Kolkata.
- 3. Mrs. Vinita Acharya presented a scientific paper on "psychosocial occupational Therapy practice in India: where is the evidence? A systemic Review" on Golden Jubilee annual national conference of All India Occupational Therapists Association (AIOTA) held on 26th .27th &28th February, 2013 Trivandrum, Kerala.
- 4. Mr. V. Guruprasad personated a scientific poster in the TB awareness poster competition on the theme "Stop TB in my lifetime" organized by Manipal college of nursing Manipal & Kasturba Hospital Manipal on 23rd march 2013.

Year 2014 (04 Numbers)

- 1. Dr. Shovan Saha presented a paper title "Getting to Know Low Temperature Thermoplastic as a Splinting Medium" at 3rd Annual National Conference of Hand therapy held at hotel tip top plaza, thane, Maharashtra, India from 13th to 14th September, 2014.
- 2. Dr. Shovan Saha presented a paper title "Understanding Puzzle Called Contracture" at 3rd Annual National Conference of Hand therapy held at hotel tip top plaza, Thane, Maharashtra, India from 13th to 14th September, 2014.
- 3. Dr. Shovan Saha presented a paper title "Rehabilitation of complex hand injuries" at 38th Annual conference of Indian society for surgery of the hand, held at Dr. TMA Pai International Convocation Centre, Mangalore 15th November 2014.
- 4. Mr. Guruprasad V presented a poster titled "Caregiver Board" in innovation day Manipal University on 20th December, 2014 at Manipal.



Department of Nuclear Medicine

Year 2012 (01)

1. Dr.Shivanand Bhushan (oral Paper presentation) 21st- 22nd January 2012 National symposium on Genomics 2012, "Safety management of hazardous radioactive Chemical materials to protect human health and environment: Insight into regulatory framework of current UGC Guidelines."

Year 2014

1. Mrs.Vasumathi: 11th to 14th Dec 2014, Participated and Poster Presented "Retrospective study of differentiated thyroid cancer patients at a tertiary hospital in coastal Karnataka" in the 46th Annual National conference of Society of Nuclear Medicine in India 2011, organized by Saha Institute of Nuclear Physics, Kolkata

22Iii. Conference: International

Department of Physiotherapy

Year 2012 (04 Numbers)

- 1. Dr Kavitha Raja attended and presented scientific paper at international conference Asia Pacific conference in Geriatric care in October 2012.
- 2. Senthil Kumaran D attended and presented scientific paper at international conference Asia Pacific conference in Geriatric care in October 2012.
- 3. Parul attended and presented scientific paper at international conference Asia Pacific conference in Geriatric care in October 2012.
- 4. Mrs. Nivedita S Prabhu attended the Cardiac rehabilitation training program organized by the European Association of Cardiac Rehabilitation and Prevention (EACPR European Society of Cardiology) held at Bern, Switzerland September 2012

Year 2013

- 1. Mrs Preetha has given a Poster presentation "Postural sway changes across various trimesters during pregnancy" in RCOG ,World Congress,Hyderabad, March 28-30,2014
- 2. Mr. Abraham Samuel Babu has Presented a talk on "Exercise testing in pulmonary hypertension" for a webinar organised by the **Pulmonary Hypertension Association, USA** on December, 2013
- 3. Mr. Abraham Samuel Babu has Presented talk on "at the Global Congress on Physical Activity at the Scientific Sessions of the American Heart Association, Dallas, Texas, November 16th-20th, 2013
- 4. Mr. Abraham Samuel Babu has Presented a talk on "Exercise induced pulmonary hypertension What is it and what do we do about it?" for a webinar organised by the **Pulmonary Hypertension Association, USA** on August 15th, 2013
- 5. Dr. G Arun Maiya has participated in the Pain Refresher Course held on 2nd May 2013 at Max Atria at Singapore Expo, Singapore
- 6. Mr. Ganesh as successfully completed IHTC training from December 1st to 31st, 2013 held at National blood centre, Kualalumpur, Malaysia.
- 7. Mr. John Solomon presented a poster entitled comparison between visual, auditory and visuoauditory cueing on timing of movement at the IXth International Conference on progress in motor control under the auspices of the International Society of Motor control July 13-16, 2013, Motreal, Canada.



Year 2014

- 1. Dr. G Arun Maiya has participated as a resource person in the "International conference on Musculoskeletal & Manual Physical Therapy" oragnised by Faculty of Physiotherapy in association with Institute of Therapeutic Sciences, Michigan, USA held at Sri Ramachandra University from 3rd to 5th July 2014.
- 2. Dr. G Arun Maiya has participated as a presenter in the international conference on environmental and occupational health (ICEOH) on 8th & 9th April 2014 at Putrajaya Marriott Hotel, Malaysia.
- 3. Dr. Vaishali K has delivered a guest lecture on "Role of Physiotherapists in Laryngectomy Rehabilitation" as a part of Pre-conference Seminar, workshop held at Manipal from 30-31 December 2014.
- 4. Dr. Vaishali K has participated in MIDPULMOCON 2014, the midterm conference organized by Dept. of Pulmonary Medicine, KMC, Manipal on 12th Oct 2014.
- 5. Dr. Bhamini K Rao has delivered a lecture on "Physiotherapist's Perspectives" in 47 ISHACON, a National Level conference organised by Indian Speech & Hearing Association held at Manipal from 30th to 31st December 2014
- 6. Dr, Bhamini K Rao has participated as delegate in the ISSHCON 2014 from 14th to 16th November 2014 held at Dr. TMA Pai International Convention Centre, Mangalore and has also chaired a session for the same on 15th h November 2014
- 7. Dr. John Solomon has attended the 8th World Congress for Neuro rehabilitation hosted I Istanbul, Turkiye, at International Convention & exhibition
- 8. Mr. Senthil Kumaran D has participated in Asia Pasific Stroke conference held on Sep 12-14, 2014, in Taipei, Taiwan
- 9. Mr. Girish N has participated in Asia Pasific Stroke conference held on Sep 12-14, 2014, in Taipei, Taiwan

Department of Occupational Therapy

Year 2012 (03 Numbers)

- Mr. Shovan Saha has presented a scientific paper in the Physical Therapy, Occupational Therapy, Prosthetics and Orthotics, Speech Language Pathology Conference (POPS) held on 16 to 17 October 2012, Riyadh, Arabia. Topic of the presentation: "perspectives on contracture".
- 2. Dr. Sebestina Anita Dsouza has presented the paper "The Effectiveness of Balance Training under Task Conditions in Older Adults at Risk for Falling, UBC Robson Square, Vancouver, Canada.
- Dr. Sebestina Anita D'souza presented a scientific paper on "on site exercise 3. programs for computer related musculoskeletal problems in bank employees: a Quasi experimental study in international conference on environment & occupational health organized by department of public Health, Manipal University & ROHC- NIOH, at Manipal, Karnataka from 20 – 22 December 2012.

Year 2013 (03 Numbers)

- 1) Mr. Shovan Saha presented a poster title "Outcome of Corrective Metal Hand Splints" at the 9th Triennial Congress of the international Federation of Societies for Hand Therapy Held March 4th -8th, 2013 at the India Expo Centre, Greater Noida, New Delhi, India
- 2) Mr. Shovan Saha presented a scientific paper title " Developing a Device to Improve Forearm Rotation" at the 9th Triennial Congress of the international



- Federation of Societies for Hand Therapy Held March 4th -8th , 2013 at the India Expo Centre, Greater Noida, New Delhi , India
- 3) Mr. C Shashidhar Rao presented a paper on "Content Validity and Reliability of Tasks to Elicit Adaptive Responses to Swing" in International Conference on Developmental Pediatrics and childhood Disability in 21st Century.

Department of Health Information Management

Year 2012 (03 Numbers)

- 1. Ms. Dola Saha participated in international conference HBMeU Annual Congress 2012, Dubai, from 31st January to 2nd February 2012 & presented a paper "Perception of medical students about electronic discharge summaries"
- 2. Ms. Reshmi B, participated in international conference HBMeU Annual Congress 2012, Dubai, from 31st January to 2nd February 2012 & presented a paper "HIS implementation in Tertiary care hospital"
- 3. Ms. Geena Mary S, participated in international conference HBMeU Annual Congress 2012, Dubai, from 31st January to 2nd February 2012 & presented a paper "Mhealth; potential subsegment of e-health for better health information delivery: A pilot study among pregnant Indian Women"

Year 2013

- 1. Dr. Roopalekha J, presented paper "Determinants of depression among informal caregivers of persons with dementia" at International research conference organized by International association of academicians and researchers at Bangkok, in March, 2013
- 2. Dr. Rajesh Kumar Sinha presented paper "Evaluation of user acceptance of an EHR" at International research conference organized by International association of academicians and researchers at Bangkok, in March, 2013
- 3. Ms. Dola Saha presented paper "Awareness and practice of students about using mobile phone in healthcare delivery" at International research conference organized by International association of academicians and researchers at Bangkok, in March, 2013

Year 2014

1. Dr. Roopalekha J, presented paper Awareness perception and acceptability of EMR among nurses of a tertiary care hospital in India Global Health care 2014 organized by Global Science and technology forum at Singapore in June 2014

Department of Medical Laboratory Technology

Year 2012 (01 Number)

1. Ms. Saleena Ummer V, the platform presentation paper entitled "Urinary α -Glutathione-s-transferase variations in cisplatin treated cancer patients with and without kidney injury" at "International Conference on BIOSCIENCE, BIOCHEMISTRY and BIOINFORMATICS, held in Chennai on March, 2012 (received best paper award)

Year 2013 (04 Numbers)

- 1. Saleena Ummer, Evaluation of Cystatin C in urine and serum for the early detection of acute kidney injury due to cisplatin chemotherapy an observational cohort study, International NCD research Meet, February 2013 at Manipal
- 2. Attended and presented poster on 'screening selected urinary organic acids In patients with suspected inborn errors of metabolism' at 2nd international



- Conference on Inborn Errors of Metabolism (IEMCON) from 4th 7th April, 2013 at "Auditorium, Dr. R.M.L. Hospital & PGIMER, New Delhi, INDIA
- 3. Attended and presented poster on 'Urinary thin layer chromatography in children with suspected inherited energy metabolism disorders' in 6th International conference on Genetic and Molecular Diagnosis in Modern Medicine (GMDMM 2013) organized by Department of Genetics, Vasavi Medical and Research Centre, Hyerabad from 8th to 10th February 2013.
- 4. Rinu John M , the proportion of acute kidney injury in patients underwent cardiac surgery an evaluation using egfr and akin criteria, International NCD research Meet, February 2013 at Manipal

Year 2014 (01 Number)

1. Saleena Ummer, Urinary Neutrophil Gelatinase Associated Lipocalin (uNGAL) detects early Kidney Injury due to Cisplatin Chemotherapy – An Observational Cohort Study, International NCD research Meet, January 2014 at Manipal

Department of Speech and Hearing

Year 2012 (03 Numbers)

- 1. Sunila John, B Rajashekhar. Error Production During Word Retrieval In Typically Developing Malayalam Speaking Children. 19-22nd July, 13th Annual Conference, PECERA, at NTU, Singapore
- 2. Dr. Venkataraja Aithal, Dr. Vaidhyanathan, Dr.B Rajashekhar. Acquisition of different case markers in Tulu speaking normal children. 19-22nd July, 13th Annual Conference, PECERA, at NTU, Singapore
- 3. Snithin Sasheendran & Krishna. Y. "Dichotic Sentence Identification test findings in different anatomical lesions". 11th Asia Pacific Congress on Deafness 2012, 26 28 July 2012, Singapore

Year 2013 (02 Numbers)

- 1. Gopee Krishnan, Shivani Tiwari, & Kiran, S. Two routes to read in Kannada? Evidence from bi-literate (Kannada-English) persons with brain damage. 51st Annual Meet of the Academy of Aphasia at Lucerne, Switzerland from 20-22 October, 2013
- 2. Tiwari, Gopee Krishnan, & Kiran, S. Manifestation of surface agraphia in an alphasyllabary: Evidence from Kannada-English bi-literates with acquired brain damage. 51st Annual Meet of the Academy of Aphasia at Lucerne, Switzerland from 20-22 October, 2013

Department of Clinical Psychology

Year 2012 (01 Numbers)

1. JapneetAhluwalia. Presented a paper & poster in 30th International Congress of Psychology (ICP 2012) held at Cape Town, South Africa from 22nd -27th July 2012. "Stigma And Discrimination Faced By Asymptomatic 'Schizophrenics'"

Department of Respiratory Therapy

Year 2012 (02 Numbers)

- Saumy Johnson. Noninvasive ventilation. Srilankan Medical Association. Colombo. October. 2012
- 2. Saumy Johnson, Clinical outcome in patients with NIV, Hongkong, China, November 2012



Department of Optometry

Year 2012

- 1. Ramesh S Ve- Efficacy of remotely controlled computerized visual acuity chart-IX general assembly International Agency for Prevention of Blindness –in Hyderabad
- 2. Krithica.S, Development and Validation of Amblyopia Awareness questionnaire IX general assembly International Agency for Prevention of Blindness in Hyderabad
- **3.** Premjit Bhakat- Overnight swelling with Silicone hydrogel contact lens- IX general assembly International Agency for Prevention of Blindness in Hyderabad
- **4.** Jyothi Thomas- Accuracy and saftey of Goldman Applanation Tonometry over Daily disposable soft CL- IX general assembly International Agency for Prevention of Blindness- Hyderabad, India

Year 2013

- 1. Ramesh S Ve Association of Lifestyle, Geographical, Systemic and Ocular Riskfactors with Prevalence of Cataract in a Rural and an Urban South Indian Population: The Chennai Glaucoma Study- International Conference on Envirounment and Occupational Health Manipal
- 2. Ramesh S Ve Point Wise Linear Regression Assessment Of Perimetric Progression With Standard Automated Perimetry And Frequency Doubling Perimetry In Glaucoma: A Population Based Study -5th World Glaucoma Congress 2013 –Vancouver Canada
- 3. Nijil Sanker- Comparison of ocular parameters between Dravidian and Mongoloid persons in a University population in South India Asia-ARVO in New Delhi

Year 2014

- 1. Dr. Ramesh S Ve -Association of Research in Vision and Ophthalmology (ARVO) 2014 ISIE Imaging conference, Assessment of Retinal Nerve Fiber layer with color and red free images using Smartscope Fundus Camera –May 2014 –Florida USA
- 2. Ramesh S Ve -ARVO 2014, Variability of Intraocular Pressure with Increasing collar pressure due to tight tie among obese and normal adults, May 2014 –Florisa USA

21. Details of patents and income generated

- 1. Invention Award of USD 200 Received from Intellectual Venture Asia for the Submitted Invention ID: In-812125 Titled Dynamic Chromatoscintigraphy Methods Through Manipal University and M/s Intellectual Venture, Bangalore for Global Patenting in April 2011.
- 2. Ramesh S Ve, Vijay Varada, Krithica S and Nijil Sanker.- Wearable Ocular Helath Monitoring Dress Part and thereof. Manipal University Technology and Business Incubator. intellectual properties, Chennai: 3291/CHE/2014 IN 2014

22. Areas of consultancy and income generated

- ➤ In additions to Clinical Services Provided at Kasturba Hospital, Manipal, SOAHSis actively providing services at Dr TMA Pai Hospital Udupi where the 30% of the total income generated is used for the Academic Advancement of faculty members.
- ➤ Department of Health Information Management received an amount of Rs. 5 Lakhs as a consultation fee from University of Botha for the Launch of B.Sc. HIA program.



23. Faculty selected nationally/ internationally to visit other laboratories in India and abroad (2013-2014)

| Sl. | Name of faculty member | Visited laboratories in India and abroad. | |
|-----|------------------------|--|--|
| No. | | | |
| 1. | Ms. Angel | COMDEALL, Bangalore (2014) | |
| 2. | Mr. Ramesh S Ve | July 2013: School of Optometry and Vision Science, | |
| | | University of Waterloo, Canada | |
| | | a. Dr. William Bobier's Lab | |
| | | b. Dr. John Flanagan's Lab | |
| | | c. Centre for Contact Lens Research (CCLR) | |
| 3. | Ms. Jyothi Thomas | August 2013: | |
| | | a. Contact lens and basic science research lab at | |
| | | Dept. of Optometry, University of New South | |
| | | Wales | |
| | | b. Preclinical lab at Dept. of Optometry, | |
| | | Melbourne University | |
| | | c. Preclinical lab at Australian College of | |
| | | Optometry | |
| | | d. Preclinical lab at Optometry dept., Deakins | |
| | | University | |

24. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

| Sl. No | Name of faculty member | Institutions/Committee/Councils |
|-----------|----------------------------|--|
| 1 | Dr. Rajesh Kumar Sinha | Reviewer for Journal of Systems Science and Systems Engineering, An Official Journal of Systems Engineering Society of China. Reviewer for Bulletin of the World Health Organization on eHealth Initiative, Geneva. Reviewer for "The Internet Journal of Allied Health Sciences and Practice", Reviewer for Telemedicine and eHealth. |
| 2 | Dr. Rooplekha Jathanna | Reviewer for EMC Health Science Research Journal, British Journal. |
| 3 | Mr. Ramesh S Ve | Educational Institute Representative (2011-2013)- Executive Board Member- Indian Optometric Association Optometric Glaucoma Society, Supranational Glaucoma Society, World Glaucoma Association. Institutional Research Committee member, School of Allied Health Sciences Honorary Secretary (2012-2015) - Executive Board Member-Association of Schools and Colleges of Optometry- India. |
| 4 | Mr. Abraham Samuel Babu | Pulmonary Hypertension Association publication committee (USA) Task force on Exercise in PAH, Pulmonary |



| | | Vascular Research Institute (UK) 3. Editorial board – Indian Journal of Physiotherapy and Occupational Therapy 4. Peer reviewer – Clinical Rheumatology, Lung India, Disability and Rehabilitation, Circulation: Heart Failure, Mayo Clinic Proceedings, Biomarkers in Medicine |
|----|----------------------------|---|
| 5 | Dr. G Arun Maiya | Editor of IAP journal "physiotherapy". Editorial member of (JOPT) journal of occupational therapy & physiotherapy India. Member of the international society of physiotherapy journal editors (ISPJE). |
| 6 | Ms. Saumy Johnson | Indian journal of Respiratory Care, an official journal of Indian Association of Respiratory Care |
| 7 | Mr. Ramesh Unnikrishnan | Indian journal of Respiratory Care, an official journal of Indian Association of Respiratory Care |
| 8 | Ms. Tisha Ann Skariah | Indian journal of Respiratory Care, an official journal of Indian Association of Respiratory Care Treasurer |
| 9 | Dr. B. Rajashekhar | Member of RCI National Expert Committee on Hearing Impairment, RCI Member of the Advisory Council of NIMH, Secunderabad Member of the Advisory Council of AYJNIHH, Mumbai Member of EC of AIISH, Mysore RCI syllabus revision committee member Academic Council, SRM Journal of Indian Speech and Hearing Association Editorial board Founder president of ISHA-Manipal chapter |
| 10 | Dr. Venkataraja Aithal U | EC Member, Indian Speech and Hearing Association Reviewer – Folia Phoniatrica and Logopedica (Karger Publications) Reviewer – Biomedical Signal Processing & Control (Elsevier) Hon. Secretary of ISHA-Manipal chapter EC Member of Asia Pacific Society of Speech Language and Hearing APSSLH |
| 11 | Dr. Krishna Y | Hon. Gen. Secretary, Indian Speech and Hearing Association Mentor, STEP Program, American Speech and Hearing Association Subject expert, The National Initiative for Allied Health Sciences Member of EC of AIISH, Mysore Vice president of ISHA-Manipal Chapter |
| 12 | Dr. Gopee Krishnan | 1. President, Kerala Chapter, Indian Speech and |



| | | Hearing Association Member of Editorial Board of International Journal of Speech-Language Pathology and Audiology Editor, Journal of Indian Speech and Hearing Association | |
|-----|--------------------------------|---|--|
| 13 | Mr. Shovan Saha | EC Member of Academic Council of Occupational Therapy (ACOT) for 2012-2014 Vice Precedent in Society for Hand Therapist in India. Editorial board member of Indian Journal of Physiotherapy and Occupational Therapy (International Journal). Editorial board member of "Journal of Geriatric Care and Research (International Journal). Mmember of Ad-hoc Board of studies for paramedical courses at Goa University Secretary of All Indian Occupational Therapist Association for the year 2010-2012 | |
| 14 | Dr. Sebestina Anita D'souza | Editorial board member of "The Indian Journal of Occupational Therapy | |
| 15 | Mr. Chavan Shishidhar Rao | Editorial board member of "The Indian Journal of Occupational Therapy | |
| 16 | Mr. sanjiv Kumar | Reviewer of Journal of Society for wound care and research. | |
| 17 | Mr. Koushik Sau | Co-opted as EC member of All Indian Occupational Therapist Association for the year 2010-2012 | |
| 18 | Dr. Shivanand Bhushan | Eastern chapter of Society of Medical Radiation Technology India (EC-SMRTI) Nuclear Medicine Physicists Association of India (NMPAI) | |
| 18 | Dr. Saleena Ummer | Member of Board of Studies, Clinical Vocational courses, Texila Career College, Texila American University | |
| 19. | Ms. Jyothi Thomas | BOS Member – Goa University for 2013-15 Member of the Curriculum committee Task force- Ministry of Health & Family welfare New Delhi | |
| 20. | Dr. Bhamini Krishna Rao | Member Of National Initiative For Allied Health Sciences – Task Force Unit Member (Ministry of Health & Family Welfare) | |

25. Faculty Recharging Strategies

- Faculties are encouraged to attend Conferences, Workshop and Continuing Professional Education Programmesof their respective specialty. University provides financial support of Rs. 50,000 annually to attend these professional activities.
- ➤ Institution is conducting various Professional Development Programme, especially in the area of research.
- Faculty members are encouraged to publish scientific publications in various journals. Thereby faculty members are encouraged to accumulate publications points for Dr. TMA Pai research incentives.

26. Student projects



- Percentage of students who have done in-house projects including interdepartmental projects 100 per cent (100%)
- Percentage of students doing projects in collaboration with other universities / industry/ institute
 O Percent (0%)

27. Awards/ recognitions received at the national and international level by

Faculty members -

1. Ramesh S Ve

- Received the Gold Medal for Best innovation at the Innovators Competition for DST-Lockheed Martin India Innovation Growth Programme 2013. April 29- May 2nd 2013, Federation of Indian Chambers of Commerce and Industry, New Delhi.
- Received the Indo-US Public Health Research Fellowship 2013. 6 month Public Health Research fellowship a supported by Indo-US Science and technology forum and Public Health Federation of India. Fellowship starts November 2013 at Dana Center for Preventive Ophthalmology; Wilmer Eye Institute, Johns Hopkins University, Baltimore.
- 2. **Jyothi Thomas** Received "Australian Leadership Awards Fellowship" funded by Brien Holden Vision Institute Foundation, University of New South Wales, Sydney (August 2013).

3. Dr. G Arun Maiya

- UKIERI (UK-India Educational Research Initiative) travel grant by British Council in 2012. First Indian PT to get the grant.
- Certified Clinical exercise specialist workshop and certification program of American College of Sports Medicine (ACSM) in Singapore 2011
- SCS (Spinal Cord Society) gold medal award in the field of rehabilitation at international spinal cord society conference held at New Delhi in 2008 and spinal cord society fellowship at UK

4. Mr. Manikandan

- Third Prize for the innovative product titled 'Reaction timer for assessing lower limb (leg) reaction time' in the First Innovation Day event organized by Manipal University on December 2012.
- Chattanooga Biotech award for the Second best senior scientific paper award for the project titled "Orthotic effect of leaf spring AFO on temporal parameters of gait in patients with hemiparesis' in 48th Annual conference of IAP held on January 2010, Mangalore

5. Mr. Kalyan

- Won best innovative idea for presenting the idea on Innovation day for the protype presentation on Speech enabled chest vibrometer
- Best idea award for the prototype on integrated respiratory apparatus
- Participated in competitions held at national level for innovative ideas
- Participated in Lockheed Martin-India Innovation growth program and stood one among top 50 innovative ideas submitted in 2010



6. Dr. B Rajashekhar

- CARF & Prof. Bellur Rajashekhar Chair in Head & Neck Cancer Research and Voice Restoration at Manipal University,
- Laryngology and Voice Association (SLP) award, 2013
- Dr. Manoharan Oration award, TANISHA, Yercaud;
- Acoustic Society of India Oration award;
- **7. Dr. UV Aithal -** Alumni Award 2011, Alumni Association of U Kamala Bai High School, Kadiyali, Udupi)
- 8. **Dr. Shivani Tiwari** Received Travel grant/award from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India, to attend and present my research at the 51st Annual Meet of Academy of Aphasia held at Lucerne Switzerland during 19 23 October 2013.

9. Mr. Shovan Saha

- Received "Professional Excellence Award" from All India Occupational therapist Association (AIOTA) at the 50th Annual National Conference of AIOTA (OTICON 2013) as recognition of his outstanding contribution to occupational therapy and AIOTA.
- Mr. Shovan Saha is selected as Hand therapy Educator by International Societies for hand Therapy. November 2012
- Certificate Course In Hand Splinting recognized as post graduate hand therapy education program by International Federation of Societies for Hand Therapy
- **10. Dr. Sebestina Anita D'souza -** was awarded as a Winner of Best Scientific Paper for Kamala V. Nimbkar Trophy on the subject of "Computer Related Injuries: Awareness & Health Behaviors in Computer Users" in the 48th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Anna Auditorium, Chepauk, Chennai, on 9th, 10th & 11th of January 2011.
- 11. **Mrs. Vinita Acharya** Awarded the best entry in the contest "It happened in my classroom" organized in connection with teachers day celebration, 2013
- **12. Saleena Ummer -** Won best paper award for the platform presentation in the International Conference on Bioscience, Biochemistry and Bioinformatics, 2012 at Chennai in 2012
- 13. Dr.Shivanand Bhushan Prestigious award of MICNM (Member of Indian College of Nuclear Medicine) An academic wing of Society of Nuclear Medicine for year 2012. Award felicitation held during ICNM convocation on 13th Dec 2013 at Mumbai.
- **14. Dr Fiddy Davis -** Distinguished Service Award Research by the Indian Association of Physiotherapists at the national conference 2015

Students

- A. Analisa P, Ayas Mohd., Best paper (Oral presentation) SECAP evidence on the processing of speech and non-speech stimuli through hearing aids, Manipal AUDICON 2012, 16-17th Nov, 2012, SOAHS, Manipal
- B. Safaa Asif, Archana G, Dr. B Rajashekhar Best paper (Oral presentation), Jugular Schwanoma A case report, Manipal AUDICON 2012, 16-17th Nov.



2012, SOAHS, Manipal

C. Sanjivan GautamConferred with Nepal Vidhya Bhushan "Ka", "Kha" and "Ga" by the president of Nepal

28. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| # | Resource person | Topic | Date, year | Source of |
|----|---|--|---|---|
| # | Resource person | Topic | Date, year | funding |
| 1. | Dr. Shiv Shankar Dr. Prathibha Karanth | Update on audiological practices Orientation to COM- DEALL | 27.02.2012 | - - |
| 2. | In House – Dr. B. Rajashekhar, Dr. Venkataraja Aithal U, Dr.Usha Devadas, Dr. Balakrishnan External- Dr. Blom, Dr. Gurmit B | LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy | 9-10 th Oct, 2012, | Shreyaas, Coimbatore (National) |
| 3. | Mr.Prasanna Patil, BERNAFON- Hearing aids Ms.Anupriya, Starkey Hearing aids Mr.Achiah, ALPS- Hearing aids | National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology' | 16-17 th Nov, 2012, | Hearing Aid Industries (International) |
| 4. | Dr. Anantha Padmanabha | Orientation program on VAGHMI and SSL | 05 Dec 2012, | - |
| 5. | Dr. Rita Vats | Behavior Modification in Autism | 28 March 2013, | - |
| 6. | In House – Dr. Gopee Krishnan, Mr. Kiran S, Dr. Aparna Pai External - Dr. Thomas Bak, Dr. Suvarna Alladi, Mr. Sunil Kumar | Aphentia 2013 – A Seminar on Comprehensive Assessment of Aphasia and Dementia | 12 April 2013, | Dept of Speech and Hearing |
| 7. | Resource Persons: Dr. Ajay Bhandarkar, Dr. B. Rajashekar, Dr. U V Aithal, Dr. Usha, Ms. Sheela | World Voice Day | 26 April 2014 at Shirdi Sai Baba Hall | Dept of Speech and Hearing |
| 8. | Dr. Leslie Lewis Ms. Bhargavi Ms. Angel S | Current Trends in Pediatric Hearing Assessment – I (Seminar convened by Ms. Archana) | 30 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 9. | Mr. Kishan MM Dr. Sivaprasad Reddy Ms. Anupriya | Advances in Hearing Aid Selection and Programming | 30 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter |



| | | | I | I |
|----|---|--|---|---|
| | Dr. Kanaka G | (Seminar convened by Mr. Kishan M M) | | of ISHA |
| 10 | Ms. Archana Mr. Dinesh Hearing Assessment – II | | 30 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 11 | Dr. Usha Dalvi Dr. Bhamini Dr. Shayan Saha (Seminar convened by Dr. | | 30 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 12 | Dr. Pratibha Karanth Dr. Apoorva Pauranik Dr. Amith Sitharam Dr. Manikandan Dr. Gopeekrishnan | Aphasia (Seminar convened by Dr. Gopee Krishnan) | 30 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 13 | Dr. Christopher Sudhakar | Infection Control in ASLP Practice (Seminar convened by Dr. Krishna Y) | 31 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 14 | Kiran S Dr. Shashidhar | Assessment of Acquired Reading and Writing Impairments (Seminar convened by Mr. Kiran S) | 31 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 15 | Dr. Balakrishnan Dr. Vaishali Dr. B. Premalatha Dr. B. Rajashekhar Dr. Rehan Kazi Dr. Eric Blom | Laryngectomy: Team Approach (Seminar convened by Dr. Venkataraja Aithal U and Sheela S) | 31 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 16 | Ms. Sheela Dr. Venkataraja Aithal U Dr. B. Rajashekhar | Laryngectomee: An Overview (Workshop convened by Dr. Venkataraja Aithal U and Sheela S) | 31 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 17 | Dr. Suresh T Dr. John S Dr. Sashidharan | Assessment and Management of Balance Disorders – A Team Approach (Seminar convened by Dr. Krishna Y) | 31 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 18 | Dr. Usha Devadas Dr. R. Balakrishnan Dr. Prakash Boominathan Dr. Manjiree Ghokale Mr. Dinesh | Teachers as Professional Voice Users: Issues, Assessment and Management of Voice Problems in Teachers (Seminar convened by Dr. Usha Devadas) | 31 Dec, 2014, Interact Halls, Manipal | Dept of Speech and Hearing & Manipal Chapter of ISHA |
| 19 | Mr. Shashidhar Rao | "Occupational Therapy: a Global Perspective | 24 th January 2012. | |
| 20 | Dr. Bhaskrannand Kumar Dr. Anil Bhat Mr. Shovan Saha Mr. Sanjiv Kumar | "The Art & Science of Hand Splinting" | 29 th and 30 th October 2012 | Heritage health care |



| | Ms. Sumedha | | | |
|----|--|---|---|---|
| | Kamath | | th. | |
| 21 | | Resume Writing for Allied | 18 th February | RCM Health |
| | Health care Health Professional for | | 2013 | care Services, |
| 22 | American companies | | 1 st October | USA |
| 22 | | | 1 st October 2013 | RCM Health care Services, |
| | Health Care | Licensing Process for US for Occupational Therapy | 2013 | USA |
| | | students and job | | OSA |
| | | opportunities in us for | | |
| | | occupational therapy | | |
| | | graduates | | |
| 23 | | Collaborative Coaching | 23 th to 24 th | |
| | Cada | Model for children with | January 2014 | |
| | Dr. Divya Sood | sensory processing | | |
| | Dr. Mary Butler | dysfunction & Emerging | | |
| | | of practice in vision rehabilitation | | |
| 24 | Dr. Sebestina Anita | Capacity Building for the | 24 th to 26 th | |
| | D'souza Dr. C | Occupational Therapy | November | |
| | Shashidhar Rao | Researcher | 2014 | |
| | Mrs. Vinita Acharya | | | |
| 25 | | Occupational Therapy in | 27 th to 29 th | |
| | D'souza | stroke rehabilitation: An | November | |
| | Mr. Koushik Sau | Evidence based approach | 2014 | |
| | | | | |
| 26 | Mr. Guruprasad V | International collection on | Sant 2013 | Dr TMA Dai |
| 26 | Organised by Dr. G | International collocuim on Exercise Science | Sept 2013 | Dr. TMA Pai Endowment |
| 26 | - | International collocuim on Exercise Science | Sept 2013 | Dr. TMA Pai Endowment Chair |
| 26 | Organised by Dr. G | | Sept 2013 29 th & 30 th | Endowment |
| 26 | Organised by Dr. G Arun Maiya | Exercise Science | 29 th & 30 th November | Endowment Chair Dr. TMA Pai Endowment |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya | Exercise Science National Grant writing workshop | 29 th & 30 th November 2014 | Endowment Chair Dr. TMA Pai Endowment Chair |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd | Endowment Chair Dr. TMA Pai Endowment Chair Dept of |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: | Exercise Science National Grant writing workshop | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John Solomon | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: Dr John Solomon Dr | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John Solomon | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: Dr John Solomon Dr Manikandan | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: Dr John Solomon Dr Manikandan Mr. Senthil Kumaran D Dr Bhamini | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John Solomon • Dr Manikandan • Mr. Senthil Kumaran D • Dr Bhamini Krishna Rao | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John Solomon • Dr Manikandan • Mr. Senthil Kumaran D • Dr Bhamini Krishna Rao • Mr. Akash | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John Solomon • Dr Manikandan • Mr. Senthil Kumaran D • Dr Bhamini Krishna Rao • Mr. Akash • Department | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John Solomon • Dr Manikandan • Mr. Senthil Kumaran D • Dr Bhamini Krishna Rao • Mr. Akash • Department Occupational | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: • Dr John Solomon • Dr Manikandan • Mr. Senthil Kumaran D • Dr Bhamini Krishna Rao • Mr. Akash • Department Occupational Therapy: | Exercise Science National Grant writing workshop Evaluation and | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: | Exercise Science National Grant writing workshop Evalutation and management of Spasticity | 29 th & 30 th November 2014 23 rd November 2014 | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University Canada |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: | Exercise Science National Grant writing workshop Evalutation and management of Spasticity CME on Rehabilitation of | 29 th & 30 th November 2014 23 rd November | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University Canada Nova nordisk |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: | Exercise Science National Grant writing workshop Evalutation and management of Spasticity | 29 th & 30 th November 2014 23 rd November 2014 | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University Canada |
| 26 | Organised by Dr. G Arun Maiya Organised by Dr. G Arun Maiya Dept of Physiotherapy: | Exercise Science National Grant writing workshop Evalutation and management of Spasticity CME on Rehabilitation of | 29 th & 30 th November 2014 23 rd November 2014 | Endowment Chair Dr. TMA Pai Endowment Chair Dept of Physiotherapy & Mc. Gill University Canada Nova nordisk Hemophilia |



| Mr. Ranganath | | |
|-----------------------------------|--|--|
| G | | |
| Mr. Rajesh | | |
| Navada | | |
| Other department | | |
| faculty | | |
| Dr. Annamma | | |
| Kurien, | | |
| Associate Dean, | | |
| MMMC | | |
| Dr. Dinesh | | |
| Nayak, | | |
| Peadiatrics | | |
| • Dr. Girish | | |
| Katta, | | |
| Genetics | | |
| Mr. Guruprasad | | |
| V | | |
| Mr. Sanjeev | | |
| Kumar | | |

List the faculty who have undergone staff development programmes during the last five years (Refresher courses, orientation programmes and staff training conducted by the university and other institutions)

a) Faculty

Physiotherapy

- 1. Divya Mohan Attended the Workshop on Pedagogic and Personal Effectiveness Conducted at Kasturba Medical College, Manipal from First to sixth June 2010.
- 2. Dr. Vaishali K has completed certificate course in Bioethics jointly organized by KMC, MU, Manipal and CDSA, held between October December 2013.
- 3. Dr. Vaishali K has participated in workshop on "Counselling skills for teachers" on 15 & 16th April 2013 organised by Student Affairs, MU
- 4. Dr. Bhamini K Rao has attended a Pearson Clinical Assessment Workshop held on 24th and 25th August 2013 and is trained on the administration, scoring and interpretation of Bayley Scales of Infant and Toddler Development Third Edition
- 5. Dr. Bhamini K Rao has successfully completed NDT/Bobath Certificate Course in the Management and Treatment of Children with Cerebral Palsy and Other Neuromotor Disorders from 16th Sept to October 2013 held in Goa.

Occupational Therapy:

Year 2010

1. Mr Guru Prasad attended the workshop on 'Pedagogic and Personal Effectiveness' conducted held from 15-19 June 2010 conducted by KMC, Manipal.

Year 2011 (27 Numbers)

1. Mrs. Sebestina Anita D'Souza for participating in COTE on "Providing Occupational Therapy Services in the Schools: What's different' held on 9th January 2011 at the 48th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Chennai.



- 2. Mr. Koushik Sau for participating in COTE on "providing Occupational Therapy Services in the Schools: What's different' held on 9th January 2011 at the 48th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Chennai.
- **3.** Mr. Shovan Saha for participating in COTE on "providing Occupational Therapy Services in the Schools: What's different' held on 9th January 2011 at the 48th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Chennai.
- **4.** Mrs. Sebestina Anita D'Souza for participating as a delegate in the 48th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Chennai, held on 9th, 10th & 11th January, 2011
- 5. Mr. Koushik Sau for participating as a delegate in the 48th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Chennai, held on 9th, 10th & 11th January, 2011
- **6.** Mr. Shovan Saha for participating as a delegate in the 48th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Chennai, held on 9th, 10th & 11th January, 2011
- 7. Mr. Koushik Sau participated in "Personality Development Workshop" on Sunday 20th march, 2011. Organized by Rotaract Club, Manipal University, and Manipal.
- **8.** Mr. Bijay Kumar Nayak for participating as a delegate in the "Pulmonary Rehabilitation Update Workshop" on 2nd May 2011. Organized by Department of Respiratory Therapy, Manipal College of Allied Health Sciences, Manipal.
- **9.** Mr. Shovan Saha participated at a workshop on "Situational Review Report Writing" of National Initiative for Allied Health Services (NIAHS) on 4th to 6th July, 2011 at MCOAHS Manipal, Valley View Fortune Inn, and Manipal.
- **10.** Mr. Koushik Sau participated at a workshop on "Situational Review Report Writing" of National Initiative for Allied Health Services (NIAHS) on 4th to 6th july, 2011 at MCOAHS Manipal, Valley View Fortune Inn, Manipal.
- **11.** Mr. Koushik Sau for participating in COTE on "Work hardening programme for lower limb amputation for qualified Occupational Therapists' held on 27th July to 28th July 2011 at the Swami Vivekanand National Institute of Rehabilitation Training And Research, Cuttack.
- **12.** Mrs. Vinita Acharya participated in "Handwriting Training" on 27th July to 28th July, 2011. Conducted by ADAPT, Mumbai with the support of MAITS, UK.
- **13.** Mrs. Sebestina Anita D'souza participated at a workshop on "Situational Review Report Writing" of National Initiative for Allied Health Services (NIAHS) on 4th to 6th July, 2011 at MCOAHS Manipal, Valley View Fortune Inn, and Manipal.
- **14.** Mr. Shashidhar Rao participated at a workshop on "Situational Review Report Writing" of National Initiative for Allied Health Services (NIAHS) on 4th to 6th July, 2011 at MCOAHS Manipal, Valley View Fortune Inn, and Manipal.
- **15.** Mr. Shashidhar Rao participated at a workshop on "Credit Based Evaluation system held on 27th May, 2011 at MCOAHS Manipal.
- **16.** Mr. Shovan Saha participated at a workshop on "Credit Based Evaluation system held on 27th May, 2011 at MCOAHS Manipal.
- **17.** Mrs. Sebestina Anita D' Souza participated at a workshop on "Credit Based Evaluation system held on 27th May, 2011 at MCOAHS Manipal.
- **18.** Mr. Bijay Kumar Nayak participated in the Continuing Occupational Therapy Education Program on Occupational Therapy In Hand Rehabilitation on 5thth to 7th September, 2011 at National Institute for the Orthopaedically Handicapped, Kolkata.
- **19.** Mrs. Banumathe KR. Participated at a workshop on "Pedagogic & Personal Effectiveness on 26th to 30th September, 2011 at Manipal Centre for Personal & Professional Development 2nd floor, Health Sciences Library, Manipal,.



- **20.** Mr. Shashidhar Rao participated in the Faculty Development Programme in teaching Entrepreneurship on 19th to 24th September, 2011Organized by Manipal Institute of Management Manipal University, Sponsored by All India Council for Technical education
- **21.** Mr. Shashidhar Rao participated at a one day workshop on "Problem Based Learning" on 1st October, 2011 at Manipal Centre for Professional & Personal Development, Manipal University, and Manipal.
- **22.** Mrs. Vinita Acharya participated at a one day workshop on "Problem Based Learning" on 1st October, 2011 at Manipal Centre for Professional & Personal Development, Manipal University, and Manipal.
- **23.** Ms. Deena Dimple D' Souza participated at a workshop on "Pedagogic & Personal Effectiveness on 10th to 14th October, 2011 at Manipal Centre for Personal & Professional Development 2nd floor, Health Sciences Library, Manipal,.
- **24.** Mr. Kaushik Sau participated the COTE program on GeriCare-2011, 8th & 9th November, 2011 to mark the event of World Occupational Therapy Day conducted by Dept. of Occupational Therapy, Manipal College of Allied Health Sciences, and Manipal.
- **25.** Ms. Banumathe K.R participated Personality development Program "Transmind "Treasure yourself on 12 september, 2011 at Manipal.
- **26.** Mr. Sanjiv Kumar has successfully completed the Certified Course in "Bio Statistics, Epidemiology and Research Methodology "conducted by the Department of Statistics, Manipal University Manipal from January to June 2011
- 27. Mr. Koushik Sau has successfully completed the Certified Course in "Bio Statistics, Epidemiology and Research Methodology "conducted by the Department of Statistics, Manipal University Manipal from January to June 2011

Year 2012 (37 Numbers)

- 1. Mrs. Sebestina Anita D'souza has participated in the workshop on Qualitative Research Methods for Physicians Jan, 30th to Feb, 3rd, 2012 at Indian Institute of Public Health Delhi.
- 2. Mr. Shovan Saha has attended (2 hours) pre-conference COTE on "Role of Occupational Therapy in Medico-Legal Practice in UK" Conducted by Dr. Gazala Makda held on 16th Jan 2012 at the 49th AIOTA National Conference held at Madgaon, Goa.
- 3. Ms. Sumedha Kamath has attended (2 hours) pre-conference COTE on "Role of Occupational Therapy in Medico-Legal Practice in UK" Conducted by Dr. Gazala Makda held on 16th Jan 2012 at the 49th AIOTA National Conference held at Madgaon, Goa.
- 4. Mr. Sanjiv Kumar has attended the short-term training programme on "Addressing Barriers in the Environment and Universal Design" from 19th Jan, 2012 to 21st Jan 2012. Conducted by Lokvishwas Pratisthan Teacher's Training Centre, Ponda-Goa.
- 5. Mr. Sanjiv Kumar has attended (2 hours) pre-conference COTE on "Role of Occupational Therapy in Medico-Legal Practice in UK" Conducted by Dr. Gazala Makda held on 16th Jan 2012 at the 49th AIOTA National Conference held at Madgaon, Goa.
- 6. Mr. Koushik Sau has attended (2 hours) pre-conference COTE on "Role of Occupational Therapy in Medico-Legal Practice in UK" Conducted by Dr. Gazala Makda held on 16th Jan 2012 at the 49th AIOTA National Conference held at Madgaon, Goa.
- 7. Mr. Shovan Saha has attended the COTE Program on 'Occupational Therapy: A Global Perspective' organized by Dept. of Occupational Therapy, MCOAHS, Manipal University, held on 24th January 2012.



- 8. Mr. Chavan Shashidhar Rao has attended the COTE Program on 'Occupational Therapy: A Global Perspective' organized by Dept. of Occupational Therapy, MCOAHS, Manipal University, held on 24th January 2012.
- 9. Mrs. Sebestina D'souza has attended the COTE Program on 'Occupational Therapy: A Global Perspective' organized by Dept. of Occupational Therapy, MCOAHS, Manipal University, held on 24th January 2012.
- 10. Mr. Sanjiv Kumar has attended the COTE Program on 'Occupational Therapy: A Global Perspective' organized by Dept. of Occupational Therapy, MCOAHS, Manipal University, held on 24th January 2012.
- 11. Mr. Bijay Kumar Nayak has attended the COTE Program on 'Occupational Therapy: A Global Perspective' organized by Dept. of Occupational Therapy, MCOAHS, Manipal University, held on 24th January 2012.
- 12. Mr. D. Sridhar has attended the COTE Program on 'Occupational Therapy: A Global Perspective' organized by Dept. of Occupational Therapy, MCOAHS, Manipal University, held on 24th January 2012.
- 13. Mrs. Banumathe KR has attended the COTE Program on 'Occupational Therapy: A Global Perspective' organized by Dept. of Occupational Therapy, MCOAHS, Manipal University, held on 24th January 2012.
- 14. Mrs. Vinita Acharya has attended the guest lecture on "Research Grant Writing" delivered by Dr. Unnikrishnan as a part of faculty development program on 27th February 2012. Organized by Manipal College of Allied Health Sciences.
- 15. Mr. Chavan Shashidhar Rao has attended the guest lecture on "Research Grant Writing" delivered by Dr. Unnikrishnan as a part of faculty development program on 27th February 2012. Organized by Manipal College of Allied Health Sciences.
- 16. Mr. Shovan Saha has attended the guest lecture on "Research Grant Writing" delivered by Dr. Unnikrishnan as a part of faculty development program on 27th February 2012. Organized by Manipal College of Allied Health Sciences.
- 17. Mrs. Banumathe K.R. has attended the guest lecture on "Research Grant Writing" delivered by Dr. Unnikrishnan as a part of faculty development program on 27th February 2012. Organized by Manipal College of Allied Health Sciences.
- 18. Mr. Koushik Sau has attended the guest lecture on "Research Grant Writing" delivered by Dr. Unnikrishnan as a part of faculty development program on 27th February 2012. Organized by Manipal College of Allied Health Sciences.
- 19. Mr. Sanjiv Kumar has attended the guest lecture on "Research Grant Writing" delivered by Dr. Unnikrishnan as a part of faculty development program on 27th February 2012. Organized by Manipal College of Allied Health Sciences.
- 20. Dr. Sebestina D'souza has attended the guest lecture on "Research Grant Writing" delivered by Dr. Unnikrishnan as a part of faculty development program on 27th February 2012. Organized by Manipal College of Allied Health Sciences.
- 21. Mr. D. Sridhar participated in "Teacher as Leader Workshop on Academic Leadership" on 22nd March, 2012. Organized by Manipal Centre for Professional and Personal Development (MCPD).
- 22. Mr. Bijay Kumar Nayak participated in "Teacher as Leader Workshop on Academic Leadership" on 22nd March, 2012. Organized by Manipal Centre for Professional and Personal Development (MCPD).
- 23. Mr. Koushik Sau has attended 2 days workshop on "Foot Conditions in Leprosy" held at Premananda Memorial Leprosy Hospital, Kolkata on 27th & 28th March, 2012.
- 24. Mrs. Vinita Acharya has attended (2 hours) pre-conference COTE on "Role of Occupational Therapy in Medico-Legal Practice in UK" Conducted by Dr. Gazala Makda held on 16th Jan 2012 at the 49th AIOTA National Conference held at Madgaon, Goa.



- 25. Mr. Koushik Sau has attended 5 days workshop on "Pedagogic & Personal Effectiveness" held at Medical Education Department, 2nd floor, Health Sciences Library, University building, Manipal on 10th to 14th July, 2012.
- 26. Dr. Sebestina D'souza participated in the "SEARCH" the information literacy skills workshop on 28th August 2012 organized by manipal centre for professional and personal development.
- 27. Mr. Shovan Saha has attended COTE program (10 hours) on "The Art & Science of Hand Splinting" held on 29th & 30th Oct, 2012 organized by Dept. of Occupational Therapy, MCOAHS, and Manipal.
- 28. Mr. Sanjiv Kumar has attended COTE program (10 hours) on "The Art & Science of Hand Splinting" held on 29th & 30th Oct, 2012 organized by Dept. of Occupational Therapy, MCOAHS, Manipal.
- 29. Mrs. Vinita Acharya participated in the Workshop on "Teacher as Communication" on 16th Nov, 2012 organized by Manipal Centre for Professional and Personal Development.
- 30. Mrs. Vinita Acharya has attended the Postgraduate Academic Programme Psychiatry Update 2012 from 10th Nov, 2102 to 11th Nov, 2012 conducted by the Dept. of Psychiatry, KMC, Manipal
- 31. Ms. Sumedha Kamath has attended COTE program (10 hours) on "The Art & Science of Hand Splinting" held on 29th & 30th Oct, 2012 organized by Dept. of Occupational Therapy, MCOAHS, and Manipal.
- 32. Mrs. Vinita Acharya has participated in the workshop on instrumental development workshop, held at Biostatistics Resource and Training Centre (BRTC), Christian Medical College (CMC) Vellore, India from 22nd to 24th November 2012.
- 33. Mr. Guruprasad V. has participated in the workshop on instrumental development workshop, held at Biostatistics Resource and Training Centre (BRTC), Christian Medical College (CMC) Vellore, India from 22nd to 24th November 2012.
- 34. Dr. Sebestina Anita Dsouza has participated in two day workshop on copy editing organized by manipal university press, Manipal on November, 23 24,
- 35. Mr. D Sridhar has participated in the workshop on instrumental development workshop, held at Biostatistics Resource and Training Centre (BRTC), Christian Medical College (CMC) Vellore, India from 19th November to 22nd November 2012
- 36. Mr. Sanjiv Kumar participated in COTE on "Physical Agent Modalities: As an Adjunct To Occupational Therapy" on December 21- 23, 2012 at Santosh Hospital , Ghaziabad , UP, India Organized by Acedemic Council Of occupational Therapy in collaboration with Santosh group of Institute.
- 37. Ms. Sumedha Kamath has attended 3 day workshop on "Wheelchair & Prescription for person with Neurological Disorders following world health Organization (WHO) guidelines from 26th to 28th November 2012 at Mobility INDIA, Bangalore.

Year 2013 (23 Numbers)

- 1) Mr. Shovan Saha has participated in the "CME Course on Current Concepts in Hand Therapy" held at right Hospital on 27th January 2013.
- 2) Mrs. Vinita Acharya has participated in the seminar on "Resume writing for Allied Health Professional for American Companies" conducted by department of occupational therapy, MCOAHS, Manipal at Manipal on 18th February, 2013.
- 3) Mr. Shovan Saha has participated in the seminar on "Resume writing for Allied Health Professional for American Companies" conducted by department of occupational therapy, MCOAHS, Manipal at Manipal on 18th February, 2013



- **4)** Mr. Koushik Sau has participated in the seminar on "Resume writing for Allied Health Professional for American Companies" conducted by department of occupational therapy, MCOAHS, Manipal at Manipal on 18th February, 2013.
- 5) Mr. Sanjiv Kumar has participated in the seminar on "Resume writing for Allied Health Professional for American Companies" conducted by department of occupational therapy, MCOAHS, Manipal at Manipal on 18th February, 2013
- 6) Mr. V. Guruprasad has participated in the seminar on "Resume writing for Allied Health Professional for American Companies" conducted by department of occupational therapy, MCOAHS, Manipal at Manipal on 18th February, 2013
- 7) Ms. Sumedha Kamath has participated in the seminar on "Resume writing for Allied Health Professional for American Companies" conducted by department of occupational therapy, MCOAHS, Manipal at Manipal on 18th February, 2013
- 8) Mr. Shovan Saha has participated pre conference Continued Occupational Therapy Education (COTE) on "Translating research into publication and application in occupational therapy practice" in the 50th annual national conference of AIOTA held at Trivandrum, Kerala from 26th February, 2013
- 9) Mrs. Vinita Acharya has participated pre conference Continued Occupational Therapy Education (COTE) on "Translating research into publication and application in occupational therapy practice" in the 50th annual national conference of AIOTA held at Trivandrum, Kerala from 26th February, 2013
- **10**) Dr. Sebestina Anita D'Souza participated in the Workshop on "counseling skills for teachers" on 11th & 12th March, 2013 organized by department of student Affairs.
- **11**) Mr. Guruprasad V. Participated in the workshop on qualitative research method and analysis, held at biostatistics resource and training centre (BRTC), Christian Medical College (CMC), Vellore, India from May 13th 2013 to May 15th 2013.
- **12**) Mr. Koushik Sau Participated in the workshop on "How to write and publish a scientific article" Conducted by the department of pharmacology, kasturba Medical College, Manipal on 17th & 18th may 2013.
- **13**) Ms. Sumedha Kamath P Participated in the workshop on "How to write and publish a scientific article" Conducted by the department of pharmacology, Kasturba Medical college, Manipal on 17th & 18th may 2013.
- **14)** Mr. Sanjiv Kumar participated in the workshop on "Ethical issues in biomedical research" on 29th and 30th may 2013. Jointly organized by Manipal centre for professional and personal development (MCPD), MU and department of hospital Administration, KMC Manipal.
- 15) Mr. Koushik Sau Participated in the Half-Day Workshop on BMJ Case Reports "How To Get Your Cases Published" Conducted by the SEARCH The Health Science Library & Department of Library & Information Science, Kasturba Medical College, Manipal University in association with BMJ publishing group on 25th June 2013.
- **16**) Dr. Sebestina A D'Souza participated in the workshop on "Curriculum Design" organized by Manipal Centre for Professional and Personal Development (MCDP), Manipal University, on 9th July, 2013.
- 17) Mrs. Sumedha Kamath participated in the workshop "Pedagogic and Personal Effectiveness" organized by Manipal Centre for Professional And Personal Development (MCDP), Manipal University from 22nd to 26th July, 2013.
- **18)** Mr. C. Shashidhar Rao participated in the national workshop on "survey Research & statistical Analysis" organized by the department of statistics, Manipal university, Manipal during 12-14 August, 2013.
- **19**) Mrs. Vinita Acharya participated in the national workshop on "survey Research & statistical Analysis" organized by the department of statistics, Manipal university, Manipal during 12-14 August, 2013.



- **20**) Mr. Shovan Saha participated ICF workshop on 3rd to 4th December 2013 in cochin (Kerala), India
- **21**) Mrs Vinita A Acharya participated in the "Capacity Building Workshop On Qualitative Data Analysis" organized by department of public health Department of Statistics Manipal university, India and university of Groningen , The Netherlands
- **22**) Mrs. K.R Banumathe has participated in two day workshop on cognitive Rehabilitation on 14th and 15th December, 2013 organized by department of clinical Psychology, SOAHS, Manipal university
- **23**) Mrs. Shalini Quadros has participated in two day workshop on cognitive Rehabilitation on 14th and 15th December, 2013 organized by department of clinical Psychology, SOAHS, Manipal university

Year 2014 (12 Numbers)

- 1. Mr. Sanjiv Kumar has participated as delegate in workshop titled "Emerging Trends towards Innovation in Health Care and Science in India" organized by School of Allied Health Science, at Manipal university on 7th march 2014.
- 2. Dr. Shovan Saha has participated as delegate in workshop titled "Emerging Trends towards Innovation in Health Care and Science in India" organized by School of Allied Health Science, at Manipal university on 7th march 2014.
- 3. Mrs. Shalini Quadros has participated as delegate at the "National Conference on Research and Services in Psychiatry Rehabilitation: Focus on Recovery" organized by the psychiatric rehabilitation services, NIMHANS, Bangalore on 8th and 9th March, 2014.
- 4. Dr. Shovan Saha has participated in the Continuing Occupational Therapy Education (COTE) and work shop on Fundamentals of splinting on 29th march, 2014 organized by SRM College of occupational Therapy, SRM University.
- 5. Dr. Sebestina Anita D'souza has participated in the half day "Mini Workshop for Postgraduate Dissertation Guides" held on 27th July 2014 Between 2.00 to 5.00 pm at Kasturba Medical College, Manipal University, Manipal.
- 6. Mrs. Vinita A. Acharya has participated in the half day "Mini Workshop for Postgraduate Dissertation Guides" held on 27th July 2014 Between 2.00 to 5.00 pm at Kasturba Medical College, Manipal University, Manipal.
- 7. Dr. Shovan Saha has participated in the half day "Mini Workshop for Postgraduate Dissertation Guides" held on 27th July 2014 Between 2.00 to 5.00 pm at Kasturba Medical College, Manipal University, Manipal.
- 8. Mrs. Vinita Acharya has attended the one day Workshop on Copy Editing Organized by Manipal University Press (MUP), Manipal on October 27, 2014 at the department of European studies, Manipal University, We appreciate her active participation in the workshop.
- 9. Dr. Sebestina Anita Dsouza has successfully completing the training programme on "Nurturing an Effective Work Place" for the head of the departments of institutions of Manipal university conducted by TAPMI during October 17th to 18th, 2014 at Manipal.
- 10. Mrs. Vinita Acharya has participated in the "National Grant Writing workshop for Health Professionals" held on 29th & 30th November 2014, Manipal University, Manipal 576104.
- 11. Dr. Sebestina Anita D'souza has participated in the "National Grant Writing workshop for Health Professionals" held on 29th & 30th November 2014, Manipal University, Manipal 576104.
- 12. Mr. Sridhar D. has attended the half day workshop on "How to get published?" organized by the SEARCH the health science library and department of library &



information Science, KMC, Manipal University, Manipal is association with BMJ publishing group held on 10th, December, 2014.

Medical Laboratory Technology

- 1. Asha Patil participated in training programme on 'Laboratory Quality Management and Internal Audit' as per ISO 15189:2007 from 5-8 April at Centre for Electronic Testing Engineering, STQC Directorate, Department of Information Technology, Government of India ETDC, Peenya, Bangalore, Karnataka.
- 2. Vivek Raghavan attended the workshop on 'Credit Based Evaluation System' conducted by Manipal College of Allied Health Sciences on 27 May 2011.
- 3. Saleena Ummer attended the workshop on 'Credit Based Evaluation System' conducted by Manipal College of Allied Health Sciences on 27 May 2011.
- 4. Saritha Kamath U attended the workshop on 'Credit Based Evaluation System' conducted by Manipal College of Allied Health Sciences on 27 May 2011.
- 5. Kusumakshi attended the workshop on 'Credit Based Evaluation System' conducted by Manipal College of Allied Health Sciences on 27 May 2011.
- 6. Vivek Raghavan attended a workshop on 'Situational Review Report Writing' conducted by Ministry of Health and Family Welfare, Government of India and Public Health Foundation of India Initiative, National Initiative for Allied Health Services (NIAHS) on 4-6 July 2011.
- 7. Kusumakshi attended a workshop on 'Situational Review Report Writing' conducted by Ministry of Health and Family Welfare, Government of India and Public Health Foundation of India Initiative, National Initiative for Allied Health Services (NIAHS) on 4-6 July 2011.
- 8. Vivek Raghavan attended a workshop on 'Safety issue in Hospital towards quality patient care-II' organized by Department of Hospital Administration, KMC, Manipal, in association with Academy of Hospital Administration Mangalore on 27 August 2011.
- 9. Saleena Ummer attended a workshop on 'Safety issue in Hospital towards quality patient care-II' organized by Department of Hospital Administration, KMC, Manipal, in association with Academy of Hospital Administration Mangalore on 27 August 2011
- 10. Kusumakshi attended a workshop on 'Safety issue in Hospital towards quality patient care-II' organized by Department of Hospital Administration, KMC, Manipal, in association with Academy of Hospital Administration Mangalore on 27 August 2011.
- 11. Saleena Ummer V attended the Pubmed Basics training progamme organized by MCPD, Manipal University on 28 July 2011.
- 12. Saleena Ummer attended workshop on 'Problem based Learning' organized by MCPD on third October 2011.
- 13. SarithaKamath U attended workshop on 'Problem based Learning' organized by MCPD on third October 2011.
- 14. Ms. Asha Patil attended Transfusion Medicine CME-2011 "Towards Safer Transfusions", conducted by Voluntary Blood Bank , Kasturba Medical College& Hospital, MU ,Manipal on 30TH of January 2011
- 15. Ms. Kusumakshi attended Certificate course in biostatistics, epidemiology and research methodology, conducted by the department of Statistic, Manipal University from January 2011 to June 2011.
- 16. Ms. Asha Patil attended "Importance Of QC to seek Accreditations and QC Concepts" organized by Bio-Rad Laboratories (India) Pvt. Ltd & Department of Biochemistry on 22nd January 2011 held at KMC, Melaka Manipal Medical College & Kasturba Medical College International Centre



- 1. Ms. Asha Patil attended Certificate course in biostatistics, epidemiology and research methodology, conducted by the department of Statistic, Manipal University from August 2011 to January 2012.
- 2. Ms. Asha Patil attended the training programme on Laboratory Diagnosis for Haemophilia held at Christian Medical College, Vellore, Chennai from 5th March to 10th March 2012

2013

- 1. Saritha Kamath U attended workshop on "How to write and publish scientific articles" conducted by Dept. of Pharmacology KMC, Manipal on 17th and 18th May 2013
- 2. Kusumakshi attended workshop on "How to write and publish scientific articles" conducted by Dept. of Pharmacology KMC, Manipal on 17th and 18th May 2013
- 3. Vivek Raghavan attended workshop on "How to write and publish scientific articles" conducted by Dept. of Pharmacology KMC, Manipal on 17th and 18th May 2013
- 4. Saritha Kamath U attended and completed successfully Internal Auditor Course on Integrated Management System (ISO 9001: 2008 & ISO 14001: 2004) on 1st 3rd July 2013
- 5. Ms. Saritha Kamath attended ICMR Sponsored Workshop/ CME on laboratory diagnostic technique in inborn errors of metabolism organised by the department of biochemistry, KMC Manipal and Melaka Manipal Medical College Manipal held on 30th September and 1st October 2013.
- 6. Ms. Asha Patil attended ICMR Sponsored Workshop/ CME on laboratory diagnostic technique in inborn errors of metabolism organised by the department of biochemistry, KMC Manipal and Melaka Manipal Medical College Manipal held on 30th September and 1st October 2013.
- 7. Ms. Asha Patil participated as a trainer in the Basic coagulation training cum workshop programme from 23rd October to 26th October 2013 held at Manipal University, Manipal.

- 1. Saritha Kamath U attended awareness programme on clinical chemistry trainee council conducted by KMC Manipal University, Manipal held on 1st February 2014
- Ms. Saritha Kamath participated in Workshop on Systematic Reiews and Metaanalysis, organised by Public Health Evidence South Asia (PHESA) & Dr. TMA. Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health. 22-23 November, 2014
- 3. Ms. Kusumakshi participated in Workshop on Systematic Reiews and Meta-analysis, organised by Public Health Evidence South Asia (PHESA) & Dr. TMA. Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health. 22-23 November, 2014
- 4. Ms. Asha Patil participated in Workshop on Systematic Reiews and Meta-analysis, organised by Public Health Evidence South Asia (PHESA) & Dr. TMA. Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health. 22-23 November, 2014



- 5. Ms Asha Patil attended the Pedagogic and Personal Effectiveness workshop for health science Teachers- March 2014.
- 6. Saleena Ummer participated in the training programme "Nurturing an effective workplace" for the heads of the departments of the instituitions of Manipal University, on Oct 2014

Health Information Management

2011

- 1. Rajesh Kumar Sinha participated in 'Situational Review Report Writing: National Initiative of Allied Health Science' Organized by Public Health Foundation of India in association with Ministry of Health and Family Welfare from 4-6 July 2011 at Manipal, India.
- 2. Roopalekha Jathanna participated in workshop on 'Credit Based Evaluation System' on 27 May 2011 conducted by Manipal University, Manipal.
- 3. B Reshmi participated in Faculty Development Progamme in Teaching Entrepreneurship conducted by Manipal Institute of Management and All India Council of Technical Education, New Delhi on 19-24 September 2011.
- 4. Dola Saha participated in Faculty Development Progamme in Teaching Entrepreneurship conducted by Manipal Institute of Management and All India Council of Technical Education, New Delhi on 19-24 September 2011.
- 5. Sabu KM participated in workshop on 'safety issue in Hospital towards quality patient care II' organized by Department of Hospital Administration, KMC, Manipal in association with the Academy of Hospital Administration Mangalore Manipal chapter on 27 August 2011.
- 6. Sabu KM participated in workshop on 'Situational Review Report Writing National Initiative for Allied Health Services (NIAHS)' organized by Ministry of Health and Family Welfare, Government of India and Public Health Foundation of India at Manipal on 4-6 July 2011.
- 7. Sabu KM Participated in workshop on 'safety issue in Hospital towards quality patient care I' Organized by Department of Hospital Administration, KMC, Manipal in association with the Academy of Hospital Administration Mangalore Manipal chapter on 25 June 2011.
- 8. B Reshmi participated in Workshop on 'Non Communicable Diseases conducted by Manipal University in collaboration with University of Alabama at Birmingham, USA, July 2011.

2012

- 1. B.Reshmi, Workshop on "Research Grant Writing", organised by Manipal College of Allied Health Sciences, Manipal University as a Faculty Development Program on 27.02.2012
- 2. B.Reshmi Workshop on "Healthcare Financing" organised by the Department of Community Medicine, KMC ,Manipal from 27-29th June 2012

- 1. Dola Saha and B.Reshmi. Workshop on "Curriculum Design and Development", organised by Manipal Centre for Professional Development, Manipal on the 9th of July 2013.
- 2. B.Reshmi and Dola Saha. Workshop on "Curriculum Design and Development ", organised by Manipal Centre for Professional Development, Manipal on the 9th of July 2013.



- 1. B.Reshmi, "National Grant Writing Workshop" organised by T.M.A.Pai Endowment Chair on Exercise Therapy and Health Promotion, Physiotherapy, School of Allied Health Sciences, Manipal University on 28th and 29th of November 2014.
- 2. Dr. Roopalekha Jathanna attended, Certifying training program "IMS Training" organized by Manipal University, in 2013
- 3. Ms. Dola Saha attended, Certifying training program "IMS Training" organized by Manipal University, in 2013
- 4. Dr. Roopalekha Jathanna attended worshop on faculty development program "Nurturing an effective work place" organized by TAPMI, in 2014

Optometry

2011

- 1. Mrs Jyothi Thomas and Mr Premjit Bhakat attended the workshop on training Optometry educators 'Eye Teach' organized by International Centre for Eye Care Education on 18-19 October 2011 at Hyderabad.
- 2. Mr Chandan S and Mr Avik Ray attended a workshop on Rose CL K training on October 2011 at Mumbai.
- 3. Mr Nijil Sanker AU completed the certificate course on 'Biostatistics, Epidemiology and Research Methodology' on January-June 2011, Manipal.
- 4. Mrs Jyothi Thomas, Mr Nijil Sanker attended the workshop on 'Credit Based Evaluation' conducted by SOAHS on 27 May 2011.

Speech and Hearing

2010

- 1. Mr Muhammed Ayas attended the workshop on Pedagogic and Personal effectiveness held on 11-15 January 2010 conducted by KMC, Manipal.
- 2. Ms. Kanaka attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from July Dec 2010
- 3. Mr. Ayas attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from July Dec 2010

- 1. Hariprakash Attended workshop "MATLAB applications in Speech & Hearing" conducted by SOAHS, Manipal on 22-26th March, 2011
- 2. Deepthi K J Attended workshop "MATLAB applications in Speech & Hearing" conducted by SOAHS, Manipal on 22-26th March, 2011
- 3. Dr. U V Aithal Attended workshop "MATLAB applications in Speech & Hearing" conducted by SOAHS, Manipal on 22-26th March, 2011
- 4. Dr. Krishna Y Attended workshop "MATLAB applications in Speech & Hearing" conducted by SOAHS, Manipal on 22-26th March, 2011
- 5. Ms. Sunila John underwent training in Integrated Management System Internal Auditor Training from 1-4 Aug 2011
- 6. Ms. Angel attended a workshop on Pedagogy and Personal Effectiveness by Dept of Medical Education, Manipal, July 2011
- 7. Ms. Deepthi attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from July Dec 2011
- 8. Mr. Hariprakash attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from July Dec 2011



- 9. Mr. Kishan attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from July Dec 2011
- 10. Ms. Archana attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from July – Dec 2011

- 1. Bhargavi attended a faculty development program on "Research Grant Writing" on 27 Feb 2012 at Manipal
- 2. Mr. Hariprakash National Workshop on Getting Started with MATLAB and Simulink (GSMS 2012), MIT, Manipal, 12-14 July 2012
- 3. Archana National Workshop on Getting Started with MATLAB and Simulink (GSMS 2012), MIT, Manipal, 12-14 July 2012
- 4. Dr. B Rajashekhar - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 5. Dr. U V Aithal - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 6. Dr. Krishna - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 7. Dr. Kanaka - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 8. Dr. Veena - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 9. Dr. Gopeekrishnan - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 10. Dr. Usha - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 11. Ms. Shivani - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 12. Ms. Rama Prabhu - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 13. Mr. Hariprakash - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 14. Ms. Sunila LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 15. Mr. Kishan - LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 16. Mr. Ayas LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 17. Ms. Archana LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 18. Ms. Angel LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 19. Ms. Bhargavi LARYCARE-2 International workshop on voice rehabilitation after Laryngectomy, 9-10th Oct, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 20. Dr. B Rajashekhar National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 21. Dr. U V Aithal National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal



- 22. Dr. Krishna National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 23. Dr. Kanaka National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 24. Dr. Veena National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 25. Dr. Gopeekrishnan National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 26. Dr. Usha National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 27. Ms. Shivani National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 28. Ms. Rama Prabhu National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 29. Mr. Hariprakash National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 30. Ms. Sunila National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 31. Mr. Kisha National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal n
- 32. Mr. Ayas National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 33. Ms. Archana National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 34. Ms. Angel National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 35. Ms. Bhargavi National seminar on 'Recent Advances in Auditory Evoked Potentials and Hearing Aid Technology', 16-17th Nov, 2012, Dept of Speech & Hearing, SOAHS, Manipal
- 36. Ms. Bhargavi attended a workshop on Pedagogy and Personal Effectiveness by Dept of Medical Education, Manipal, July 2012
- 37. Ms. Angel attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from Aug2012 Jan 2013
- 38. Ms. Bhargavi attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal from Aug 2012 Jan 2013

1. Dr Usha Devadas – CRE on Principles of Physiologic Voice Therapy by Dr. Joseph Stemple on 16th April, 2013 at KMC, Mangalore



- 2. Dr. U V Aithal Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 3. Dr. Krishna Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 4. Dr. Kanaka Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 5. Dr. Veena Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 6. Dr. Gopeekrishnan Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 7. Dr. Usha Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 8. Ms. Shivani Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 9. Ms. Rama Prabhu Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 10. Mr. Hariprakash Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 11. Ms. Sunila— Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 12. Mr. Kishan Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 13. Mr. Ayas Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 14. Ms. Archana Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 15. Ms. Angel Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 16. Ms. Bhargavi Aphentia 2013 A Seminar on Comprehensive Assessment of Aphasia and Dementia on 12 April 2013 at Manipal.
- 17. Angel Selvakumar Workshop on Publishing in Biomedical Journals, organized by the Dr. TMA Pai Endowment Chair in Exercise and Health Promotion, Physiotherapy, SOAHS, Manipal University, Manipal on 25 Sept, 2013

- 1. Dr. Gopee Krishnan attended Cognition:Cell to System, a two day symposium on 21-22 Feb 2014 at Manipal
- 2. Dr. Venkataraja Aithal U attended Cognition:Cell to System, a two day symposium on 21-22 Feb 2014 at Manipal
- 3. Dr. Veena K D attended Cognition:Cell to System, a two day symposium on 21-22 Feb 2014 at Manipal
- 4. Dr. Usha Devadas attended Cognition:Cell to System, a two day symposium on 21-22 Feb 2014 at Manipal
- 5. Ms. Sunila John attended Cognition:Cell to System, a two day symposium on 21-22 Feb 2014 at Manipal
- 6. Dr. Gopee Krishnan participated in the workshop "Emerging Trends towards Innovation in Health care and Science in India", Manipal on 7th March, 2014
- 7. Ms. Bhargavi participated in the workshop "Emerging Trends towards Innovation in Health care and Science in India", Manipal on 7th March, 2014
- 8. Ms. Sheela participated in the workshop "Emerging Trends towards Innovation in Health care and Science in India", Manipal on 7th March, 2014
- 9. Dr. Venkataraja Aithal U attended a Half Day Mini Workshop for Postgraduate Dissertation Guides on 14 June 2014 at KMC, MU



- 10. Dr. Venkataraja Aithal U attended Workshop on "Effective Electronic Communication" held at MCPD on 28th December, 2013.
- 11. Ms. Sheela attended a workshop on Pedagogy and Personal Effectiveness by Dept of Medical Education, Manipal, 25-28 August, 2014
- 12. Ms. Bhargavi P G participated in a CNE program on Nutrition & Wellness for Health on 6 Sept 2014, at KMC, Manipal
- 13. Dr. U V Aithal attended a training program on Nurturing an Effective Work Place conducted by TAPMI during 17-18 October, 2014 at Manipal
- 14. Dr. Venkataraja Aithal U attended a workshop on Systematic Reviews and Meta-Analysis conducted by Public Health Evidence South Asia (PHESA) and Dr. TMA Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health, Manipal University, Manipal on 22, 23 Nov, 2014.
- 15. Ms. Shivani Tiwari attended a workshop on Systematic Reviews and Meta-Analysis conducted by Public Health Evidence South Asia (PHESA) and Dr. TMA Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health, Manipal University, Manipal on 22, 23 Nov, 2014.
- 16. Dr. Usha attended a workshop on Systematic Reviews and Meta-Analysis conducted by Public Health Evidence South Asia (PHESA) and Dr. TMA Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health, Manipal University, Manipal on 22, 23 Nov, 2014.
- 17. Dr. Sunila John attended a workshop on Systematic Reviews and Meta-Analysis conducted by Public Health Evidence South Asia (PHESA) and Dr. TMA Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health, Manipal University, Manipal on 22, 23 Nov, 2014.
- 18. Ms. Sheela attended a workshop on Systematic Reviews and Meta-Analysis conducted by Public Health Evidence South Asia (PHESA) and Dr. TMA Pai Endowment Chair in Systematic Reviews and Evidence Based Public Health, Manipal University, Manipal on 22, 23 Nov, 2014.
- 19. Dr. Venkataraja Aithal U attended a National Grant Writing Workshop for Health Professionals on 29, 30 Nov, 2014 at Manipal University, Manipal (Organized by Dr. TMA Pai Endowment Chair in Exercise Science and Health Promotion, Physiotherapy).
- 20. Dr. Gopee Krishnan attended a National Grant Writing Workshop for Health Professionals on 29, 30 Nov, 2014 at Manipal University, Manipal (Organized by Dr. TMA Pai Endowment Chair in Exercise Science and Health Promotion, Physiotherapy).
- 21. Dr. Sunila John attended a National Grant Writing Workshop for Health Professionals on 29, 30 Nov, 2014 at Manipal University, Manipal (Organized by Dr. TMA Pai Endowment Chair in Exercise Science and Health Promotion, Physiotherapy).
- 22. Ms. Sheela attended a National Grant Writing Workshop for Health Professionals on 29, 30 Nov, 2014 at Manipal University, Manipal (Organized by Dr. TMA Pai Endowment Chair in Exercise Science and Health Promotion, Physiotherapy).
- 23. Angel attended a Faculty Development Program on Soft Skills Training on 19 December 2014 organized by SOAHS
- 24. Bhargavi attended a Faculty Development Program on Soft Skills Training on 19 December 2014 organized by SOAHS
- 25. Sheela attended a Faculty Development Program on Soft Skills Training on 19 December 2014 organized by SOAHS
- 26. Ms. Sheela attended a Certificate Course in Statistics, Epidemiology and Research Methodology conducted by Dept of Statistics, Manipal in 2014
- 27. Dr. B. Rajashekhar attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014



- 28. Dr. U V Aithal attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 29. Dr. Y. Krishna attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 30. Dr. Kanaka attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 31. Dr. Veena attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 32. Ms. Rama Prabhu attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 33. Dr. Usha Devdas attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 34. Mr. Hari Prakash attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 35. Ms. Archana attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 36. Ms. Shivani Tiwari attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 37. Dr. Gopee Krishnan attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 38. Mr. Kishan M attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 39. Dr. Sunila John attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 40. Ms. Angel attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 41. Ms. Bhargavi attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 42. Ms. Sheela attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014
- 43. Ms. Rekha attended Preconference of 47 ISHACON 2015 held at Manipal on 30-31 December, 2014

Nuclear Medicine

- 1. Participated in training programme on 'Pubmed Basics' organized by RFFC, MCPD, and Manipal on 28 July 2011.
- 2. Participated at a workshop on 'Situational Review Report Writing' under the National Initiative for Allied Health Services (NIAHS) in partnership with Public Health Foundation of India (PHFI) at SOAHS, Manipal on 4-6 July 2011.
- 3. Participated in workshop on Credit Based Evaluation System held on 27 May 2011 by Manipal College of Allied Health Sciences (SOAHS), Manipal.
- 4. Completed training course on 'Radioimmunoassay Techniques and their Clinical applications' conducted by Radiopharmaceuticals Division, BARC, Mumbai during 15-26 March 2011.
- 5. Participated in workshop on 'Pedagogic and Personal Effectiveness' conducted by Department of Medical Education KMC, Manipal during 15-19 February 2011.
- 6. Attended one day training series in Epidemiology and Biostatistics and one day workshop on Research Methodology and Biostatistics organized by department of Community Medicine, KMC, Manipal on 5-6 October 2010.



- 7. Organized and Participated in work shop on 'Medical Cyclotron and PET-CT' organized by Indian College of Nuclear Medicine and Manipal University, Manipal on 24-25 April 2010.
- 8. Participated in 'Pedagogic and Personal Effectiveness Workshop' conducted by Department of Medical Education KMC, Manipal on 23-27 November 2009.
- 9. Participated in preconference workshop on 'Ultrasound, CT and MRI' on seventh January 2009 and 62nd Indian Radiological and Imaging Association (IRIA) Annual Conference hosted by Bihar Chapter of IRIA on 7-11 January 2009 at S K Memorial Hall, Patna.
- 10. Participated in Clinical Excellence Programme on Clinical Trials on 7 September 2008 at SCADA Business centre, Patna.
- 11. Participated in one day CME on Breast Imaging on second March 2008 jointly organized by IRIA Bihar Chapter and Department of Radiology and RCC IGIMS, Patna.
- 12. Participated in one day Appraisal Programme for Radiological Safety Officers serving in Ind auditorium Mumbai on 17 April 2006.
- 13. 7-10 March 2008: Participated in the National Workshop on Radio isotopes in biology in Mangalore University, Mangalore, and Karnataka.
- 14. 29-30 Sep 2009: Participated in the workshop on 'Research Methodology and Biostatistics' conducted by Department of Community Medicine KMC, Manipal, and Karnataka.
- 15. 24-25 April 2010: Participated in Workshop on 'Medical Cyclotron and PET-CT' organized by Indian College of Nuclear Medicine and Manipal University, Manipal.
- 16. 15 -19 June 2010: Participated in 'Pedagogic and Personal Effectiveness Workshop' conducted by Department of Medical Education, KMC, Manipal.
- 17. 16-18 September 2010: Participated in 'A Short Course in Error Analysis and its Applications' held at Department of Statistics, KMC, Manipal University, Manipal.
- 18. 25-27 March 2011: Participated in 'National Workshop on Predictive Mathematical models in Science and Engineering' organized by the Department of Mathematics, Manipal Institute of Technology, Manipal.
- 19. 27 May 2011: Participated in workshop on 'Credit Based Evaluation System' organized by Manipal college of Allied Health sciences, Manipal University, Manipal.
- 20. First October 2011: Participated in workshop on 'Problem Based Learning' organized by the Medical Centre for Professional and Personal development (MCPD), KMC, and Manipal.
- 21. March 2006: Participated in 'Teaching learning workshop' held by Department of
- 22. 7-10 March 2008: Participated in the National Workshop on Radio isotopes in Biology in Mangalore University, Mangalore, and Karnataka.
- 23. Sep 2009: Participated in the workshop on 'Protocol Writing and Research Methodology' conducted by Department of Community Medicine, KMC, Manipal, Karnataka.
- 24. 24-25 April 2010: Organized and participated in workshop on 'Medical Cyclotron and PET-CT' organized by Indian College of Nuclear Medicine and Manipal University, Manipal.
- 25. 16-18 September 2010: Participated in 'A Short Course in Error Analysis and its Applications' held at Department of Statistics, Manipal University, Manipal.
- 26. March 2011: Attended one day workshop on ¹⁷⁷Lu as a therapeutic radionuclide and ¹⁷⁷Lu-DOTATATE for neuroendocrine treatment' held at Bhabha Atomic Research Centre, Mumbai.
- 27. March 2011: Participated in 'Pedagogic and Personal Effectiveness Workshop' conducted by Department of Medical Education, KMC, Manipal.



- 28. July 2011: Participated in a workshop on 'Situational Review Report Writing' under the National Initiative for Allied Health Services (NIAHS) in partnership with Public Health Foundation of India (PHFI) at SOAHS, Manipal.
- 29. Attended three day workshop on radiation safety by Thyrocare limited held on 28-30 October 2011 at thyrocare limited in Navi-mumbai.
- 30. Attended the workshop by ICNM held on 28 August 2009 at PGIMER, Chandigarh.
- 31. Attended the Conference on 'Update on PET/CT- Applications in Current Medical Diagnosis' held on 29-30 August 2009 at PGIMER, Chandigarh.
- 32. Attended the XXX Annual Conference of IABMS (Indian Association of Bio-Medical Scientists) held on 18-20 November 2009 at DIHAR (DRDO), Chandigarh.
- 33. Attended the preconference workshop on 'Recent developments in Nuclear Medicine' held on 18 November 2009 at DIHAR (DRDO), Chandigarh.
- 34. Attended the 42nd Annual Conference of Society Nuclear Medicine (India) held on 11-14 November 2010 at PGIMER Chandigarh, India.
- 35. Attended the two day workshop on Radiation Safety in Nuclear Medicine organized at Institute of Nuclear Medicine DRDO, New Delhi.
- 36. Attended the International symposium on advanced diagnostics in medical physics and PET/CT medical cyclotron, organized jointly by the American Associations of Medical Physicist and All India Institute of Medical Sciences in New Delhi.
- 37. Participated in the 13th Annual Conference of Southern Chapter, Society of Nuclear Medicine, India.

Renal replacement therapy and Dialysis technology department:

- 1. Participated in the peritoneal dialysis work shop on 31st March 2013.
- 2. Attended CME on "Renal replacement therapy in acute kidney injury" on 15th March 2014.
- 3. Attended National expert Taskforce Meet 2014. Conducted by Ministry of health and family welfare Government of India & NIAHS on 4th & 5th September 2014.
- 4. Attended Manipal Cordiology Update 2014 conference on 1st November 2014.
- 5. Attended workshop on "How to published?" by Health Sciences Library and department of Library and Information Science, KMC, Mu, Manipal on 10th December 2014

Medical Imaging Technology

2013

- 1. Rahul P Kotian attended Pedagogic and Personal Effectiveness for Teachers
- 2. Winniecia Dkhar_attended Pedagogic and Personal Effectiveness for Teachers

Exercise and Sports Sciences

- 1. Mr Prabu attended the workshop on 'Pedagogic and Personal Effectiveness' conducted by Manipal Centre for Professional development held from 24-28th July 2012
- 2. Mr Prabu Completed certification course on Biostatistics, epidemiology an research methodology conducted by the department of Biostatistics, Manipal University held from February to June 2015
- 3. Mr Prabu attended the international symposium on Physical activity and health promotion during life course conducted by University of Jyvaskyla from Jan21st 23rd 2013
- 4. Mr Prabu attended the international symposium on Physical fitness and training adaptations: Scientific basis in practical applications in sport, conducted by University of Jyvaskyla from Nov 21st 23rd 2012
- 5. Mr Prabu attended the international congress on enhancement of physical activity and motor skills conducted by University of Jyvaskyla from Nov $1^{st} 3^{rd}$ 2012



- 6. Mr Prabu attended the national workshop on getting started with MATLAB and SIMULINK conducted by department of mathematics, Manipal University from 12-14th July 2012
- 7. Dr Fiddy and Mr Prabu attended the International workshop on Epidemiology and biostatistics organized by Ohio state University and Department of Public health from 16th 20th December 2011
- 8. Dr Fiddy attended the workshop on counselling skills for teachers conducted by Department of Student Affairs, Manipal University from 19-20th February 2014

b) Non-teaching staff:

Year 2010

Mr B Ramakrishna Nayak and Ms Prameela V K attended the training programme on quality initiatives conducted by Manipal University on 18-19 June 2010.

Year 2011 (01 Numbers)

Ms. Yogitha participated Personality development Program "Transmind "Treasure yourself on 12th September, 2011 at Manipal.

31. Code of ethics for research followed by the departments

All doctoral protocols and thesis works are presented to the Institutional Research Cell (IRC) and with suggested modification/correction the candidate would appear for ethical clearance of Manipal University. Post graduate research works are presented to IRC and those requiring ethical clearance are further referred to the Ethics Committee approval. The IRC is also aimed at facilitating more publications and patent filing through appropriate training program. To distribute information regarding available grants/fellowships. Schedule meetings for all conference presentation requiring institutional funding for attending and to approve based on appropriate guidelines. To conduct workshop and CME to increase the research potential of the institution.

32. Student profile course-wise (2013-2014) admission

| | Applications | Ad | lmitted |
|--------------------------------|--------------|--------|---------|
| CourseName of the course | Received | Female | Male |
| BPT | | 30 | 06 |
| BPT Bridge Programme | | 12 | 04 |
| BASLP | | 18 | 03 |
| ВОТ | | 11 | 04 |
| BOT Lateral | | 02 | - |
| Bachelor of Clinical Optometry | | 13 | 07 |
| BSc C V T | | 14 | 06 |
| BSc M I T | 1,100 | 07 | 04 |
| BSc N M T | | 03 | 06 |
| BSc M L T | | 06 | 04 |
| BSc MRT | | 02 | 06 |
| BSc R T | | 20 | 10 |
| BSc Perfusion Technology | | 04 | 06 |
| BSc RRT and DT | | 07 | 07 |
| BSc HIA | | 06 | 01 |
| Lateral BSc MLT | | 01 | 01 |



| MOT | 07 | 02 |
|----------------------------------|----|----|
| MSc MLT | 05 | 04 |
| Moptom | 03 | 03 |
| MSc MRP | 04 | 01 |
| MSc HHIA | 01 | 01 |
| Masters in Respiratory Therapy | 01 | 0 |
| MASLP | 17 | 03 |
| MSc MIT | 06 | 06 |
| MSc NMT | 0 | 03 |
| MSc NMT Lateral | - | 01 |
| MPT and | 15 | 04 |
| MPT Sports and Biomechanics | - | - |
| MSc Echocardiography (M.Sc.CVT) | 02 | 01 |
| MSc RRT and DT | 0 | 0 |
| MPhil Clinical Psychology | 11 | 0 |

33. Diversity of students

Gender-wise list of UG Students

| Gender | Number of students |
|--------|--------------------|
| Male | 182 |
| Female | 437 |
| Total | 619 |

Gender-wise list of PG Students

| Gender | Number of students |
|--------|--------------------|
| Female | 140 |
| Male | 44 |
| Total | 184 |

Gender-wise list of Super specialty (MPhil Clinical Psychology) students

| Gender | Number of students |
|--------|--------------------|
| Female | 17 |
| Male | 2 |
| Total | 19 |

State-wise list of UG students

| Sl. No. | Name of the state | Number of students |
|---------|-------------------|--------------------|
| 01 | Karnataka | 157 |
| 02 | Uttar Pradesh | 08 |
| 03 | Maharashtra | 57 |
| 04 | Tamil Nadu | 15 |
| 05 | Kerala | 207 |

EVALUATIVE REPORT OF THE DEPARTMENT



| 06 | Himachal Pradesh | 02 |
|----|----------------------|-----|
| 07 | Uttarkhand | 0 |
| 08 | Jharkand | 04 |
| 09 | Bihar | 09 |
| 10 | Sikkim | 05 |
| 11 | Delhi | 04 |
| 12 | Andhra Pradesh | 09 |
| 13 | Gujarat | 07 |
| 14 | Meghalaya | 09 |
| 15 | Rajasthan | 06 |
| 16 | Haryana | 0 |
| 17 | Punjab | 03 |
| 18 | Chatisgarh | 01 |
| 19 | West Bengal | 05 |
| 20 | Madhya Pradesh | 04 |
| 21 | Assam | 02 |
| 22 | Goa | 11 |
| 23 | Jammu and Kashmir | 02 |
| 24 | Orissa | 03 |
| 25 | Mizoram | 03 |
| 26 | Uttaranchal | 0 |
| 27 | Dadra & Nagar Haveli | 01 |
| | Grand total | 534 |

State-wise list of PG students

| Sl.No. | NAME OF THE STATE | NUMBER OF STUDENTS |
|--------|-------------------|--------------------|
| 01 | Kerala | 51 |
| 02 | Bihar | 01 |
| 03 | Andhra Pradesh | 05 |
| 04 | Karnataka | 41 |
| 05 | Delhi | 02 |
| 06 | Tamil Nadu | 12 |
| 07 | Gujarat | 06 |
| 08 | Orissa | 04 |
| 09 | Uttar Pradesh | 04 |

EVALUATIVE REPORT OF THE DEPARTMENT



| 10 | West Bengal | 02 |
|----|-------------------|-----|
| 11 | Jammu and Kashmir | 01 |
| 12 | Uttarkhand | 01 |
| 13 | Maharashtra | 26 |
| 14 | Chattisgarh | 02 |
| 15 | Assam | 03 |
| 16 | Jharkhand | 0 |
| 17 | Madhya Pradesh | 02 |
| 18 | Goa | 03 |
| 19 | Mizoram | 01 |
| 20 | Himachal Pradesh | 02 |
| 21 | Manipur | 01 |
| 22 | Sikkim | 03 |
| 23 | Meghalaya | 04 |
| | Total | 177 |

Nationality-wise list of UG students

| Sl.No. | Nationality | Number of students |
|--------|--------------|--------------------|
| 01 | India | 534 |
| 02 | Kuwait | 01 |
| 03 | Oman | 13 |
| 05 | Kenya | 07 |
| 04 | Nepal | 02 |
| 05 | Saudi Arabia | 0 |
| 06 | Nigeria | 04 |
| 07 | Thailand | |
| 08 | Tanzania | 08 |
| 09 | Canada | 03 |
| 10 | UAE | - |
| 11 | Iran | 07 |
| 12 | South Africa | 01 |
| 13 | Mauritious | 03 |
| 14 | Yemen | 0 |
| 15 | Malaysia | 18 |
| 16 | Bahrain | - |
| 17 | Seychelles | 01 |
| | NRI | |

EVALUATIVE REPORT OF THE DEPARTMENT

| | HUNNA WEL | |
|-----|-----------|-----|
| | | |
| | TTT | |
| | Manipal | |
| NSI | PIRED BY | 116 |

| 18 | Kerala | 05 |
|----|---------------|-----|
| 19 | Goa | 01 |
| 20 | Gujarat | 06 |
| 21 | Maharashtra | 02 |
| | Chatisgarh | 01 |
| | Andra Pradesh | 01 |
| | Karnataka | 01 |
| 22 | Total | 619 |

Nationality-wise list of PG students

| Sl.No. | Nationality | Number of students |
|--------|----------------|--------------------|
| 01 | Indian | 177 |
| 02 | Afghanisthan | 01 |
| 03 | Malaysia | 02 |
| 04 | UAE | |
| 05 | Nepal | 02 |
| | NRI | |
| | Andhra Pradesh | 01 |
| | Goa | 01 |
| | Total | 184 |

State-wise list of super specialty students

| Sl. No. | Name of the State | Number of Students |
|---------|-------------------|--------------------|
| 01 | Kerala | 7 |
| 02 | Maharashtra | 2 |
| 03 | Madhya Pradesh | 1 |
| 04 | Uttar Pradesh | 1 |
| 05 | Andhra Pradesh | 1 |
| 06 | Karnataka | 4 |
| 07 | Delhi | 2 |
| 09 | Total | 18 |

Nationality-wise list of Super speciality students

| Sl.No. | Nationality | Number of students |
|--------|-------------|--------------------|
| | NRI | |
| 01 | Kerala | 01 |
| | | |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.



NET: 6 Students JRF: 2 Students Defence Service: 1

35. Student progression

| Student progression | Percentage (%) against enrolled |
|---|---------------------------------|
| UG to PG | 29 |
| PG to MPhil | - |
| PG to PhD | - |
| PhDto Post-Doctoral | - |
| EmployedCampus selectionOther than campus recruitment | 100 |
| Entrepreneurs | Nil |

36. Diversity of staff

| Percentage (%) of faculty who are graduates | | |
|---|----|--|
| of the same University | 69 | |
| from other universities within the State | 12 | |
| from universities belonging to other States | 19 | |
| from universities outside the country | 0 | |

37. Number of faculty members who were awarded PhD, DSc and DLitt during the assessment period

- ightharpoonup PhD 30 (2003 2013)
- > 2014: 06

38. Present details of infrastructural facilities with regard to

- a) Library Department library facility and access to central library
- b) Internet facilities for staff and students yes both LAN and wifi connectivity
- c) Total number of class rooms 15
- d) Class rooms with ICT facility 08
- e) Students' laboratories All Departments
- f) Research laboratories -02

39. List of Doctoral, Post-Doctoral students and Research Associates

a) from the host University

List of Doctoral students and Research Associates

| Regd. | Title | Investigator | Guide | Awarded / |
|-------|-------|--------------|-------|-----------|
|-------|-------|--------------|-------|-----------|



| | | | | ongoing (Manipal University) |
|------|---|--|--|------------------------------------|
| 2004 | Acoustic analysis of Telugu vowels | Mr Krishna Y | Dr B Rajashekar | Awarded |
| 2005 | Tulu syntax screening test | Venkataraja Aithal U | Dr Vaidyanathan, Dr B Rajashekar | Awarded |
| 2005 | Quality of life in adult and elderly with cochlear implant | of life in adult and Ms G Kanaka Dr B Rajashekar | | Awarded |
| 2005 | Development of Ms Veena KD Communicative Gestures and Speech in children during 8-18 months | | Dr B Rajashekar | Awarded |
| 2006 | Prevalence and nature of voice problems in call center operators | Ms Usha Devadas | J | |
| 2012 | Design and Development of Customized Decision Support System in Oncology | Mr. Rajesh Kumar Sinha | Dr. M S Vidyasagar Dr. M Manohara Pai | Awarded |
| 2007 | An appraisal of lexical retrieval skills in subjects with right hemisphere damage | Mr Gopee Krishnan | Dr Prathibha Karanth Dr B Rajashekar | Awarded |
| 2008 | Acceptability of community based health insurance schemes in Karnataka | Dr B Reshmi | Dr. N Sreekumaran Nair | Awarded |
| 2009 | Developmental changes in verbal fluency output of Malayalam speaking children | Ms Sunila John | Dr B Rajashekar | Awarded |
| 2009 | Effect of Low Level Helium Neon (He-Ne) Laser Therapy in the prevention and treatment of radiation/chemoradiotherap y induced oral mucositis in head and neck cancer patients- A Randonmised Controlled Trail | Mr. Ajay Prasad Gautam | Dr. G Arun Maiya | Completed |
| 2010 | Effects of aerobic exercise training on Diabetic peripheral neuropathy – A Randomised controlled trial" | Mr. Snehil Dixit | Dr. G Arun Maiya | Completed |
| 2010 | An investigation into the morphosyntactic deficits in kannada- English bilingual children with specific language impairment | Ms Shivani Tiwari | Dr Prathibha Karanth Dr B Rajashekar | Awarded |
| 2011 | Effect of Sensorineural Hearing Loss on Speech | Mr Hari Prakash | Dr B Rajashekar | Ongoing |



| | Evoked Cortical Auditory | | | |
|------|--|----------------------|--|---------|
| | Potentials | | | |
| 2011 | Comparison of electrophysiological measures of brainstem timing changes in young, middle aged and older adults | Mr Ayas Mohammed | Dr B Rajashekar | Ongoing |
| 2011 | Effectiveness of a Health Information Management Module for strengthening the Health Information Practices among Primary Level Health Care Personnel | Ms Dola Saha | Dr B Unnikrishnan | Ongoing |
| 2013 | Comparison of temporal processing speech perception and quality of life through multi channel and channel free hearing aid in hearing impaired | Mr. Kishan | Dr. B Rajashekar | Ongoing |
| 2013 | Efficacy of novel structured aural rehabilitation modeule in Kannada for adults with hearing impairment | Ms. Archana | Dr. Y Krishna, Dr. B. Rajashekar | Ongoing |
| 2013 | Development of a protocol for screening visual impairment in children aged 3 to 6 years | Ms. Jyothi Thomas | Dr. Parikshith Gogate Dr. B Rajashekhar | Ongoing |
| 2014 | Aerodynamic and perceptual measures in non indwelling and indwelling tracheo-esophageal prosthetic voice | Ms. Sheela | Dr. U V Aithal, Dr. B. Rajashekar | Ongoing |

Research Associates: AS ON 2012

| # | Title | Principal Investigator(s) | Co- investigators | Research staff | Funding agency |
|----|--|--|---|--|--|
| 1. | The Central Alexias and Agraphias in Semi-syllabic orthography | Dr Gopee Krishnan | Ms Shivani Tiwari Dr B Rajashekar Dr Shyamala KC | Mr Kiran S Ms Manita T Ms Prakrithi | Department of Science and Technology, Government of India |
| 2. | Reading-related eye movements in semi- syllabic and alphabetic orthographies | Dr Gopee Krishnan | Ms Shivani Tiwari Dr B Rajashekar Dr Shyamala KC | Ms Priya | Department of Science and Technology, Government of India |
| 3. | Unravelling the overlapping features of Autism spectrum | Ms Shivani Tiwari and Dr Prathibha | Dr Gopee Krishnan Dr B | To be appointed | Indian Council of Medical |



| | Disorders and Specific Language Impairment | Karanth | Rajashekar | | Research, Government of India |
|----|--|----------------------|---|---------------------------|--|
| 4. | Development and standarisation of phonological process analysis test in Tulu | Dr. Veena KD | Dr. Sunila John Dr. Venkataraja Aithal U Dr. B. Rajashekhar | Prajna | Indian Council of Social Science Research |
| | Metabolic equivalence of common physical activities in rural Udupi Taluk | Dr. Arun G Maiya | Dr. Sundar Kumar | Mrs. Radhika Jadav | ICMR |
| | Prevalence and physiotherapy intervention for pelvic floor dysfunction in women of Udupi Taluk | Dr. Bhamini K Rao | Mrs. Shubha R Nayak Dr. Pratap Kumar Dr. Veena Kamath Dr. Asha Kamath | Mrs. Sahana Suraj | ICMR |
| | Design and development of a pain relieveing instrument, | Dr. Arun G Maiya | | Mr. Stephen Samel Babu | Department of Science & technology, Govt of India |

b) From other universities

Nil

40. Number of postgraduate students getting financial assistance from the University.

11

41. Was any assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. To offer the Postgraduate programmes, the Graduate Alumni feedback was taken and based on the feedback new programme has been initiated.

42. Does the department obtain feedback from –

Yes. Once in six months.

a. Faculty members on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. The department obtains feedback from the faculty members and the visiting faculty members and other experts invited for seminars, workshops and guest lectures. Based on the feedback changes are made in curriculum and teaching-learning-evaluation.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Feedback is taken from students semester-wise and year-wise and by considering



their suggestions necessary modification are done in curriculum and teaching learning evaluation. Respective heads of the department discuss the student's feedback with concerned faculty and necessary changes are made if required.

c. Alumni and employers on the programmes offered and how does the department utilizes the feedback?

Feedback is taken from Alumni, employers and the members of Boards of Studies. They express their views on the programme offered. The suggestions given by them are taken into consideration when modifying the programme as per industry need.

43. List the distinguished alumni of the department (maximum 10)

- 1. Nimma Purna Chander Reddy- (MSc MIT), Clinical S.M.E (Subject Matter Expert), Siemens Research Suite, Apollo health street, Hyderabad.
- 2. Mr. Nagendra Upadhyaya, Team Leader, Accenture, Bangalore
- 3. Ms. Avishikta Sarkar, Business Analyst Healthcare Application Management at DELL
- 4. Sanjivan Gautam: Researcher, National Cancer Institute (NCI) National Institutes of Health (NIH) US Department of Health and Human Services Bethesda, USA
- 5. KiranCahllagundla: Indian Badminton team, IPL, ICL
- 6. S.N Badrinath: Indian Hockey Team
- 7. Richa Agnihothri, Coviden PVT LTD

Dept of Speech and Hearing

- 1. Archana Rao, Speech Language Pathologist, Lawrenceville, NJ, USA
- 2. Venkataraja Aithal U., Professor and Head, Dept of Speech and Hearing, SOAHS
- 3. Anusha Ayyar, Octave, Speech and Hearing Center, Bangalore
- 4. Akhilesh P.M. Principal, Father Muller College of Speech and Hearing.
- 5. Anupriya Head Audiological Services at Starkey Labs India Pvt Ltd
- 6. Elizabeth Rachel Oommen, Assistant Professor Speech-Language Pathology and Audiology Calvin College, Michigan
- 7. Dr. Imran Dhamani - Senior Audiologist at Australian Hearing, Rockhampton Area, Australia
- 8. Dr. Saloni Krishnan, Post Doctoral Research Associate, Birkbeck, University of London
- 9. Rashida Hassuji, HearWell Audiology Clinic, Tanzania
- 10. Ms. Namita Gehani, Clinical Audiologist at Associates in Hearing Healthcare, NJ, USA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

| Sl. No | Department | Name of the Program | | Experts Details | | |
|-----------|-------------------------------------|--------------------------------------|---------------------|------------------------|--|--|
| 1 | Health Information Management | Continuing Information Program | Health Education | • | Dr. G D Mogli, CEO & MD, Dr,. Mogli Healthcare Consultancy, Hyderabad. Dr. S N Sarbadhikari, Project Director at Centre for Health Informatics for National Health Portal Dr. Dhaval Ms. Seeme Kurian, | |



| | Г | I | |
|---|------------------------|---|--|
| | | | Administration Manager at Fathima Healthcare Group, UAE. Dr. Krishna Kothai, Research Director, Azeem Premji University, Bangalore Dr. Nagraj, Professor & Head, Department of Community Medicine, Kamineni Medical College, Hyderabad. Dr. Seena Biju, Asst. Prof. TAPMI, ManipalSix Sigma in Healthcare Mr. Anil Paul Jacob, Sr Manager — Marketing "issues and challenges in hospital marketing-lessons from KH, Manipal Mr. Jibu Thomas, Operations Manager, KH, Manipal "Hospital Operations, challenges experienced — based lessons ICD 10-2014, on 25 th October, 2014 |
| | | | |
| 2 | MLT | Explore, the annual CME | Experts from Becton Dickinson India |
| | | on Clinical laboratory | Pvt Ltd., Coulter Diagnostics pvt Ltd |
| | | Science – an update | |
| 3 | Optometry | Special lecture | Prasad Sawant Yeshwant Saoji Dr.PremNandhini Dr. Shrikant Bharadwaj |
| | ~ | A 1 1 | Dr.L S Varadarajan |
| 4 | Physiotherapy | Workshop on Exercise Testing and Prescription 2012 | |
| | | Colloquium - 2013 | |
| | | Manual Therapy | Deepak Kumar, KiranCahllagundla |
| | | ❖ NDT | Raj Kumar, Sri Ram Bhat |
| | _ | Sports | KannanPughazhandi |
| 5 | Respiratory therapy | 17th Annual Congress of the Indian Society of Critical Care Medicine & International Critical Care Congress (Criticare 2011)" at Delhi 18th Annual Congress of the Indian Society of Critical Care Medicine & International Critical Care Congress (Criticare 2012)" at Pune | |



| | I | | | |
|---|---------|-----|-----------------------------|---------------------------------------|
| | | | 19th Annual Congress of | |
| | | | the Indian Society of | |
| | | | Critical Care Medicine & | |
| | | | International Critical Care | |
| | | | Congress (Criticare 2013)" | |
| | | | at Kolkata | |
| 6 | Speech | and | Aphentia 2013 – A | Dr. Aparna Pai, Associate Prof, Dept |
| | Hearing | | Seminar on | of Neurology, KMC |
| | | | Comprehensive | Dr. Thomas Bak, Professor, |
| | | | Assessment of Aphasia | University of Edinburgh |
| | | | and Dementia, 2013 | Dr. Suvarna Alladi, Asso. Prof, |
| | | | | NIMS, Hyderabad |
| | | | | Mr. Sunil Kumar, Research Fellow, |
| | | | | AIISH, Myore |
| | | | Behavior Modification in | Dr. Rita Vats, Director, Wellbeing |
| | | | Autism, 2013 | Research & Rehabilitation Centre, |
| | | | · | Delhi |
| | | | Orientation program on | Dr. Anantha Padmanabha, Bangalore |
| | | | VAGHMI and SSL, 2012 | |
| | | | LARYCARE-2 | Dr. Eric Blom, Center for Ear, Nose |
| | | | International workshop on | & Throat & Allergy, Indianapolis |
| | | | voice rehabilitation after | Dr. Gurmit B – Tata Memorial |
| | | | Laryngectomy, 2012 | Center, Mumbai |
| | | | Update on audiological | Dr. Shiv Shankar, Prof, Dept of |
| | | | practices, 2012 | Speech Pathology and Audiology, |
| | | | • | NIMHANS, Bangalore |
| | | | Online lecture on | Dr. Shirit Yarkony DMD, Elixir |
| | | | Technological Advances in | Research, Medical Director |
| | | | the Management of | , |
| | | | Dysphagia, 2011 | |
| | | | Short term workshop on | Dr Sandeep Pathak, Military Hospital, |
| | | | MATLAB application for | Washington DC, USA |
| | | | speech & hearing, 2011 | |
| | | | Challenges of Audiology | Dr. Rathna, Former Director, AIISH, |
| | | | and speech language | Mysore& AYJNIHH, Mumbai |
| | | | services in India - An | |
| | | | Interactive Session, 2011 | |
| | | | APD – Recent | Vishweshwara Bhat, USA |
| | | | developments, 2010 | ŕ |
| | | | HearLab, 2010 | Shridhar Krishna Murthy |
| | | | Communication disorders | B. Subramaniyam& |
| | | | in Cleft lip & Palate: | Chithra R, SRMC, Chennai |
| | | | Assessment & | |
| | | | Management, 2010 | |
| | | | Research designs and | Dr MN Hegde, Prof of Speech- |
| | | | Evidence based practice in | Language Pathology, Dept of |
| | | | speech language | Communicative Disorders, California |
| | | | pathology, 2010 | State University, Fresno |
| | | | Signal processing & | Dr Sandeep Pathak, Military Hospital, |
| | | | speech perception, 2010 | Washington DC, USA |
| | | | Cochlea beyond 2010, | Mr. Apoory, Cochlear, India |
| | | | 2010 | ripoort, coomen, muin |
| | | | Evidence Based Practice | Dr MN Hegde, Prof of Speech- |
| | | | EVIDENCE DASEU FIACUCE | ועו ועו זופעוב, דוטו טו Speecil- |



| | | A 170 1 | T 5.1. |
|---|-------------------------|--|---|
| | | And Trends in Management of Communication Disorders, | Language Pathology, Dept of Communicative Disorders, California State University, Fresno |
| | | 2009 | |
| | | Balance Disorders – New Techniques of Diagnosis, 2009 | Ms. Michelle Petrak |
| | | Dysphagia & Its Management, 2009 | Elizabeth Rachel Oommen, Ohio University |
| | | Dysphagia – Evaluation & Intervention, 2008 | Veena Mohan, CCC-SLP, USA |
| 7 | Occupational Therapy | Seminar on Resume Writing for Allied Health Professional for American companies" | Expert from RCM healthcare Services, USA delivered Lecturer |
| | | Interaction with Post graduate and Inters of Department of occupational therapy | Dr. Brenton Kortman, Flinders University, Australia |
| 8 | Clinical Psychology | Guest Lecture -2008 | Dr.Sam Manickam, Professor of Clinical Psychology, Department of Psychiatry, JSS Medical College, Mysore delivered a talk on "An Introduction to Gestalt Therapy" and interacted with the faculty members and trainees, on December 22, 08. |
| | | Guest Lecture -2009 | Dr. Keshav, Asst. Professor, NIMHANS, Bangalore gave a series of guest lecture on Nueropsychology, from 27th June to 29th June, 2009. |
| | | Guest Lecture -2010 | Guest Lecture by Prof Dr. Rahmattullah Khan Bin, Professor of Psychology, University of Pendidikan Sulthan Idris, Malasia. Guest Lecture on 'Issues and Problems of Private Practice' by |
| | | G . I | Dr. E D Joseph, Clinical Psychologist, Kerala |
| | | Guest Lecture 2011 | Dr. Jamuna Rajeswaran, (Associate Professor, Department of Clinical Psychology, NIMHANS) delivered a Guest Lecture on "Neuropsychological assessment and issues related to Disability Assessment" on 2nd December, 2011". |
| | | Workshop & Guest | Neurofeedback Workshop on |
| | | <u> </u> | |



| | Lecture -2012 | December 2012 |
|---|---------------|---|
| | | Dr.Promodu , Guest Lecture on Sex therapy |
| | Lecture -2013 | Lecture by Dr.Maju Mathew Koola, faculty Sheppard Pratt health systems, Baltimore USA on Academic Carrier: publish or perish on 15th July 2013 at 12.00 clock |
| Renal Replacement Therapy and Dialysis Technology | Lecture2013 | Lecture by Dr.Thiagarajan Thandavan SRM Medical college and hospital, SRM University Chenni |

45. List the teaching methods adopted by the faculty members for different programmes.

- Like using Audiovisual Unit, various teaching learning methods: assisgnments, quiz, presentations, clinical examinations are utilized as applicable.
- Attending Pedagogy workshop: Faculty of SOAHS attend the pedagogy training workshop conducted by Manipal Center for Personal and Professional Development for upgrading their teaching skills.

46. How does the Department ensure that programme objectives are constantly met and learning outcomes are monitored?

- > Periodic audit as per IMS audit
- Regular BoS meet once in six months

47. Highlight the participation of students and faculty members in extension activities.

| Sl. | Department | Name of the | Details | | |
|-----|-------------|-------------------|--|--|--|
| No | | Program | | | |
| 1 | All Dept.of | Voluntary student | Few students from various departments of | | |
| | SOAHS | organisations | SOAHS participate in VSO programs. | | |
| 2 | Clinical | Yearly Medical | Medical Camp in Brahmavar -1 Faculty & 2 | | |
| | Psychology | Camp | students | | |
| | , 0, | 1 | Medical camps in Emmadi, | | |
| | | | Gaidimani, Muthoor, Maadari, | | |
| | | | Thalloor, Muduru | | |
| | | | Asha Nilaya Medical Camp | | |
| | | | Medical Camp organized by Sarva | | |
| | | | Shikshana Abhiyana, Department of Public | | |
| | | | Instruction, Udupi District in association | | |
| | | | with Kasturba Hospital Manipal from 10th | | |
| | | | June to 14th June 2013 – 5 Faculty members | | |
| | | | & 7 M.Phil trainees attended | | |
| | | Weekly Students | s Weekly Program – Student Counseling | | |
| | | Counselling | | | |
| | | School mental | in Govt Higher secondary School, Bailur & | | |



| | | health program | Govt middle school Jarkala |
|---|---------------|--|---|
| 3 | Medical Lab | 1 8 | VSO Activities |
| | Technology | Blood donation | Interns, BSc MLT and DMLT students |
| | | camps | attend Blood Donation camps organized by |
| | | 1 | Blood Bank, Kasturba Hospital manipal at |
| | | | various places in and around Manipal and |
| 4 | Optometry | School Screening | A cross-sectional study across eleven |
| 7 | Optomeny | Program: | schools from both urban and rural parts of |
| | | VARES Study | Udupi taluk was conducted to report the |
| | | VIIILD Stady | magnitude of visual impairment among the |
| | | | school children. Totally 1784 school |
| | | | children between the age group of 5-15 |
| | | | years participated in the study. |
| | | Monthly | Community Eye screening camps |
| | | organized Eye | |
| | | camps organized | |
| | | by O.E.U Institute | |
| | | of | |
| | | Ophthalomology, | |
| | | Kasturba Hospital, Manipal at various | |
| | | places around | |
| | | Udupi-Manipal | |
| | | Medical camp | Eye screening camp-vision, refraction and |
| | | with Social | community eye screening |
| | | welfare | |
| | | committee, KMC | |
| | | at Mahalasa | |
| | | Exports for | |
| | | cashew factory | |
| 5 | Optometry | workers | Eye screening camp |
| 3 | Optomeny | Royal embassy | Lyc screening camp |
| | | site; Manipal | |
| | | Free Medical | CSI Boys Boarding Home, Mission |
| | | Check up | Coumpound Udupi |
| | | 1 | 1 1 |
| | | Social welfare | Bijapuri Slum Area |
| | | committee of | |
| | | Manipal | |
| | | University | |
| 6 | Physiotherapy | School health | 15 schools have been visited in and around |
| | | programme | Udupi by CBR team. |
| | | Monthly/ Yearly | Strocke Camp, Diabetes Camp, School |
| | | Physiotherapy | Camp and Field Visit |
| | | Screening Camp | |
| | | Awareness and | women's health awareness and screening |
| | | screening camp for women. | camp, school health education camp for teachers |
| 5 | Respiratory | Sleep study camp | Manipal |
|) | therapy | 2012 | wampar |
| | anorup j | PFT camps | Udyavara |
| | 1 | T~ | <u> </u> |



| | | | Malpe |
|---|--------------------|---------------------------------|---|
| 6 | Speech and Hearing | Yearly Sarva Shiksha Abhiyan | Nearby Taluks |
| | Hearing | Camp | |
| | | Yearly Hearing | NGO's and Schools |
| | | screening program | |
| | | Yearly Camp for | Udupi |
| | | Red Cross Society | |
| | | and District Health Office | |
| 7 | Exercise and | Federation cup | Faculty students served as volunteers for the |
| | Sports | athletics (1-4 th | the National Anti Doping Agency |
| | Sciences | May 2015) | |

48. Give details of 'beyond syllabus scholarly activities' of the Department. Nil

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

- ➤ The Rehabilitation Council of India has awarded 'excellent' grading to the Department of Speech and Hearing and the SOAHS for its training programme and contribution to the welfare of the hearing impaired.
- Nuclear Medicine Atomic Energy Regulatory Body
- Occupational Therapy All India Occupational Therapists Association
- > Physiotherapy Indian Association of Physiotherapists (IAP), Life Member of WCPT
- Respiratory Therapy Indian Association of Respiratory care.
- ➤ ISO 14001-2004+ Cor. 1:2009 Certified
- ➤ ISO 9001:2008 Certified
- Ranked number three amongst All Allied Health Colleges in India Source The Week
- ➤ Department of Optometry Member of Association for Schools and Colleges of Optometry, Associate member of World Council of Optometry.
- MSc exercise and sports sciences is affiliated to the European Coillege of Sports Sciences

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Department were strengthened with highly competent and dedicated faculty members thereby promoting the training and research facility at the Department. Patentable product development and continued emphasis on publishing all good quality research work from faculty members and students is promoted.

51. Future plans of the Department.

- Start collaborative research with other institution of MU and foreign University.
- Start short term/certificate programmes by all departments of SOAHS.
- > Start interdisciplinary programmes with support of other constituent colleges of Manipal University.
- Initiate new collaborations, especially to establish Allied Health Sciences programme in partnership with foreign universities.
- Attract/invite more international firms/organizations to the college for facilitating student's international project and placements.



- Establish consultancy services by SOAHS in the Allied Health domain.
- 52. Detail any five strengths, weaknesses, opportunities and challenges (SWOC) of the department.

Strengths

- The first full pledged institution in the country for Allied Health Education.
- ➤ Highly dedicated and qualified faculty members (> 30 per cent completed PhD and 60 per cent registered their PhD).
- The Institution is attached with modern equipment, infrastructure and multispecialty hospital.
- Various community outreach programmes for quality training of both UG and PG.

Threats

- ➤ Competition from other Allied Health Institutions.
- Lack of clinical facility provided solely by Allied Health Specialty.
- > Difficulty in obtaining extramural research grant from national and international body for Allied Health research work.

Opportunities

- Strenthening the international Collaboration and Collaboration with both Government and other organizations.
- ➤ Capacity building Modernizing the existing facilities for effective training and research at both Undergraduate and Postgraduate level.
- To strengthen the institution as one of the best training colleges in the country.

Challenges:

- > To sustain the quality of training.
- As attrition rate of faculty is very high to retain the competent faculty members.



School of Life Sciences (SOLS) Manipal

- 1. Name of the Department: Division of Biotechnology
- Year of establishment: 2003
- 3. Is the Department part of a school/faculty of the university?

Yes, part of the School of Life Sciences (SOLS), KMC Manipal

- 4. Names of programmes / courses offered (UG, PG, MPhil, PhD, Integrated Masters, Integrated PhD, etc.)
 - BSc Biotechnology
 - MSc Medical Biotechnology
 - MSc Molecular Biology and Human Genetics
 - MSc Bioinformatics
 - PG Diploma in Cellular and Molecular Diagnostics
 - Certificate Course in Bioinformatics
 - PhD

5. Interdisciplinary courses and departments involved

| Name of Course | Departments involved | |
|--------------------------------------|--|--|
| BSc Biotechnology | KMC, MIT, MCOPS, Biostatistics, Computer and | |
| BSC Biotechnology | Information Sciences | |
| MSc Medical Biotechnology | MCOPS, Biostatistics | |
| MSc Molecular Biology and Human | KMC, Biostatistics | |
| Genetics | | |
| MSc Bioinformatics | Biostatistics, Computer and Information Sciences | |
| Certificate Course in Bioinformatics | Computer and Information Sciences | |
| PhD | KMC, MCOPS, Biostatistics | |

| MSc Nursing |) | | |
|--------------|---------|------------|-----------------------|
| MSc | Medical | Laboratory | |
| Technology(1 | MLT) | | |
| MSc Biocher | nistry | | Faculty members, SOLS |
| MD (Patholo | gy) | | |
| BSc Nursing | | | |
| MBBS | | | |
| BDS | | | |

6. Courses in collaboration with other universities, industries, foreign institutions, etc.



MSc Medical Biotechnology, MSc Molecular Biology and Human Genetics and MSc Bioinformatics students have an option to undergo training and research work under Erasmus Mundus program of the European Union at Joseph Fourier University (France), University of Barcelona (Spain) and University of Turin (Italy).

MSc Bioinformatics course has an option of training and research work at the Maastricht University, the Netherlands.

MSc Medical Biotechnology and MSc Molecular Biology and Human Genetics students have an option to do training at Queensland University of Technology (Brisbane) and Flinders University (Adelaide), Australia

MSc Medical Biotechnology and MSc Molecular Biology and Human Genetics students have an option to study at Lancaster University, UK

BSc Biotechnology course has an option of training at Flinders University, Adelaide, Australia

BSc Biotechnology course has an option of training at University Medical College, Utrecht, the Netherlands

BSc Biotechnology course has an option of training at Lancaster University, Lancaster, UK

7. Details of programmes / courses discontinued, if any, with reasons - None

8. Annual/Semester/Choice Based Credit System

BSc Biotechnology, MSc Bioinformatics, MSc Medical Biotechnology, MSc Molecular Biology and Human Genetics, PG Diploma in Cellular and Molecular Diagnostics – Semester System

9. Participation of the department in the courses offered by other departments

- 1. Genetics classes for BSc Nursing, BDS, MBBS at constituent institutions of Manipal University
- 2. Radiation Biology classes for BSc Medical Radiation Technology, MSc Medical Radiation Physics at constituent institutions of Manipal University
- 3. Molecular Biology classes for MSc MLT programme and MSc Biochemistry programme at constituent institutions of Manipal University
- 4. Molecular Biology practical training to MD (Pathology) students of constituent institutions of Manipal University.



10. Number of teaching posts sanctioned and filled (Professors/Associate **Professors/Assistant Professors)**

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professor | 4 | 4 |
| Associate Professors | 5 | 5 |
| Assistant Professors | 9 | 9 |
| Lecturer | 3 | 3 |

11. Faculty profile with name, qualification, designation and specialisation (DSc/DLitt/ PhD/MPhil, etc.)

| # | Name | Qualification | Designation | Specialization | Number of Years of Experience | No. of PhD students guided for the last four years |
|----|-------------------------|---------------|------------------------------------|---|-------------------------------------|---|
| 1 | K Satyamoorthy | PhD | Professor, Director and Head | Biochemistry, Cancer Biology | 14 | 6 |
| 2 | PM Gopinath | PhD | Professor, Senior Scientist | Human Genetics | 13 | 1 |
| 3 | Gopalakrishna Bhat | PhD | Professor | Biochemistry | 28 | 0 |
| 4 | Padmalatha S Rai | PhD | Professor | Plant Biology, Pharmaco-genomics | 13 | 3 |
| 5 | KP Guruprasad | PhD | Assoc. Prof. | Cell Biology, Ageing Research | 11 | 2 |
| 6 | Saadi Abdul Vahab | PhD | Assoc. Prof. | Molecular Biology, Cancer Research | 09 | 2 |
| 7 | Moka Rajasekhar | PhD | Assoc. Prof. | Human Cytogenetics | 10 | 2 |
| 8 | A Muthusamy | PhD | Assoc. Prof. | Plant Biology, Plant Tissue Culture | 09 | 3 |
| 9 | Herman Sunilkumar | PhD | Assoc. Prof. | Biochemistry, Lead Toxicology | 09 | 1 |
| 10 | Murali TS | PhD | Asst. Prof. | Mycology, Microbiology | 07 | 3 |
| 11 | Vasudevan TG | PhD | Asst. Prof. | Microbiology, Industrial Biotechnology | 07 | 0 |
| 12 | Roopa Nayak | PhD | Asst. Prof. | Chemistry | 07 | 0 |
| 13 | Vidhu Sankar Babu | PhD | Asst. Prof. | Plant Tissue Culture | 07 | 2 |
| 14 | KS Babitha | PhD | Asst. Prof. | Chemistry | 06 | 0 |
| 15 | Shama Prasada K | PhD | Asst. Prof. | Cancer Epigenetics | 06 | 0 |
| 16 | Manjunath B Joshi | PhD | Asst. Prof. | Cell Signalling | 04 | 3 |
| 17 | Bobby Paul | PhD | Asst. Prof. | Bioinformatics | 04 | 0 |
| 18 | Sanjiban Chakrabarty | PhD | Asst. Prof. | Biotechnology | 01 | 0 |
| 19 | Bharath Prasad AS | MSc | Lecturer | Microbiology, Animal Tissue Culture | 07 | 0 |
| 20 | Manoj Bhat | MSc | Lecturer | Bioinformatics | 06 | 0 |
| 21 | Sandeep Mallya | MSc | Lecturer | Bioinformatics | 01 | 0 |

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

| Name | Location |
|-------------------|--|
| Dr K Thangaraj | Centre for Cellular and Molecular Biology, Hyderabad |
| Dr SP Thyagarajan | Sri Ramachandra University, Chennai |
| Dr K Dharmalingam | Madurai Kamaraj University, Madurai |



| Dr RNK Bamezai | Jawaharlal Nehru University, New Delhi |
|---------------------------|--|
| Dr Keshav K Singh | Roswell Park Cancer Institute, New York |
| Dr Ross T Barnard | Queensland University, Australia |
| Dr Angela Brand | Maastricht University, the Netherlands |
| Dr Arun Balakrishnan | Piramal Life Sciences, Mumbai |
| Dr KH Sreedhara Swamy | Ambar Lok Rachana CHS Ltd., Mumbai |
| Dr Daniel B Oerther | Missouri University of Science and Technology, Rolla |
| Dr Randeep Singh | Philips, Bangalore |
| Dr. Raviraja N. Seetharam | Stempeutics Research Pvt. Ltd, Manipal |

${\bf 13.\ Percentage\ of\ classes\ taken\ by\ temporary\ faculty-programme-wise\ information}$

None

14. Programme-wise Student Teacher Ratio

BSc Biotechnology -4:1

MSc Medical Biotechnology -1:1

MSc Molecular Biology and Human Genetics -1:1

MSc Bioinformatics -1:1.5

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

| Details | Sanctioned | Filled |
|----------------------|------------|--------|
| Technical Staff | 25 | 25 |
| Administrative Staff | 9 | 9 |

16. Research thrust areas recognized by funding agencies

Pharmacogenomics, Translational Research, Biodosimetry

17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

No. of faculty with on-going projects – 4

| # | PI | Year | Name of the project | Name of the funding agency (all National) | Total grant received (sanctioned) (in rupees) |
|---|--------------------|------|---|---|---|
| 1 | Dr. K Satyamoorthy | 2012 | Deregulation of miRNAs in cervical Cancer: control by DNA Methylation and copy Number Variations | DBT | 54,73,600 (77,35,000) |



| 2 | Dr. K Satyamoorthy | 2012 | Epigenetic status of pro/anti apoptotic activity of age-related genes involved in breast cancer | DBT | 25,91,000 (28,50,000) |
|----|----------------------|------|---|---------------------|-------------------------------|
| 3 | Dr. K Satyamoorthy | 2012 | Design and expression of humanized antibodies against soluble Interleukin- 6R, soluble gpl30 in Bacterial and Animal Cell lines | DBT | 69,55,000 (147,40,000) |
| 4 | Dr. K Satyamoorthy | 2012 | Population Based Human Genetic Variations and Impact on Radiation Effect | DST (Indo-Japan) | 2,70,000 (3,50,000) |
| 5 | Dr. K Satyamoorthy | 2012 | Development of probes based on a human BAC libray for the diagnosis of disease for use in situhybridization in microaaray | DBT | 9,48,000 (29,00,000) |
| 6 | Dr. K Satyamoorthy | 2013 | DST-FIST Program | DST | 50,77,877 (56,00,000) |
| 7 | Dr. KP Guruprasad | 2013 | Multidisciplinary approach to understand ageing process in relation to DNA repair | VGST | 20,00,000 (60,00,000) |
| 8 | Dr. K Satyamoorthy | 2014 | Functional and Structural Characterization of Snake Venom Proteins from Bothrops atrox with Angiogenic Potential | DBT | 7,61,200 (33,21,000) |
| 9 | Dr Vidhu Sankar Babu | 2012 | Identification, molecular characterization of <i>Dendrobium</i> species of Western Ghats, their conservation for 'Moscatilin' screening and bioproduction through in vitro strategies | SERB | 18,50,000 (21,80,000) |
| 10 | Dr. Padmalatha Rai | 2014 | Epigenetic factors influencing bipolar disorders and therapeutic response to mood stabilizing drugs | ICMR | (39,78,600) |
| 11 | Dr. K Satyamoorthy | 2012 | Development of pharmacogenomics SNP database for critical candidate genes involved in drug response to schizophrenia | ICMR | 5,36,800 (5,36,000) |
| 12 | Dr. S Padmalatha Rai | 2012 | Development of reverse dot blot array for screening of single nucleotide polymorphisms and allele specific expression analysis in folate metabolism pathway genes | ICMR | 2,75,600 (2,76,000) |



| 13 | Dr. S Padmalatha Rai | 2014 | Pharmacogenomic variations of genes involved in type2 diabetes and their therapeutic response to oral hypoglycemic drugs | ICMR | 5,11,866 (5,12,000) |
|----|----------------------|------|--|------|----------------------------|
|----|----------------------|------|--|------|----------------------------|

18. Inter-institutional collaborative projects and grants received

a) All India collaboration b) International

| # | PI | Name of the project | Name of the institution involved (All-India) |
|---|-------------------|---|--|
| 1 | Dr K Satyamoorthy | Molecular and histological analysis of neurological disorders associated with mitochondrial mutations | Centre for Cellular and Molecular Biology, Hyderabad |
| 2 | Dr K Satyamoorthy | CORE -Pharmacogenomics | Industry partners |
| 3 | Dr KP Guruprasad | Role of Medhya Rasayana on ageing and stress-induced autophagy in hippocampus | SDM College of Ayurveda, Udupi |
| 4 | Dr K Satyamoorthy | Functional genomics for understanding holistic principles of Ayurveda therapeutics with asthma as a model | University of Pune |
| 5 | Dr K Satyamoorthy | Analysis of Molecular Signalling proteins and epigenetic factors responsible for regulation of PEPCK Expression | NEHU, Shillong ILS, Orissa |
| 6 | Dr A Muthusamy | Induction of Somaclonal Variations in Phyllanthus amarus Schum. and Thonn. And Phyllanthus urinaria Linn. by in vitro mutagenesis. Screening of mutant plants with enhanced secondary metabolites for biomedical applications | Bharathidasan University, Tamilnadu |
| 7 | Dr K Satyamoorthy | Epigenetic status of pro/anti apoptotic activity of age-related genes involved in breast cancer | NEHU, Shillong ILS, Orissa |
| 8 | Dr K Satyamoorthy | Design and expression of humanized antibodies against soluble interleukin-6R, soluble gpl30 in bacterial and animal cell lines | Industry (Bhat Biotech, Bangalore) |

| # | PI | Name of the project | Name of the institution involved (international) |
|---|-------------------|---|--|
| 1 | Dr K Satyamoorthy | The use of indigenous medicinal plants and commercialised herbal products | Medical Research Council, South Africa |
| 2 | Dr K Satyamoorthy | Identification of diagnostic and prognostic biomarkers to improve management of diabetic ulcers | Queensland University of Technology, Australia |

Grants received – same (as above Q17)

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.



| Funding Agency | Total Grants Received (in Rs.) | Total Grants Sanctioned (Rs.) |
|--------------------|--------------------------------|-------------------------------|
| DBT | 1,67,28,800 | 3,15,46,000 |
| DST | 62,63,877 | 74,98,000 |
| ICMR | 13,24,266 | 13,24,000 |
| SERB | 18,50,000 | 21,80,000 |
| Govt. of Karnataka | 20,00,000 | 60,00,000 |

(Details as given above for Q17)

20. Research facility / centre with

- state recognition—Biotechnology Finishing School
- national recognition TIFAC-CORE, DST, Government of India. Translational Research, DBT, GOI
- international recognition Nil

21. Special research laboratories sponsored by / created by industry or corporate **bodies** – Nil

22. Research output in last three years

| D | etails | 2012 | 2013 | 2014 |
|---------------------------|---------------------|------|------|------|
| Completed funded | d research projects | 4 | 7 | 3 |
| Completed non-fu projects | inded research | 0 | 0 | 0 |
| Completed PhD re | esearch projects | 0 | 1 | 5 |
| Completed PG res | search projects | 37 | 32 | 34 |
| Completed UG re | search projects | 16 | 26 | 27 |
| Publications | International | 21 | 17 | 32 |
| Publications | National | 0 | 2 | 3 |
| Books | | 1 | 0 | 0 |
| Chapters in books | | 6 | 0 | 0 |
| Conference | International | 20 | 27 | 14 |
| presentations | National | 3 | 28 | 14 |

Completed funded research projects

- 1. Programme Support on Transalational Research in Biomedical Sciences DBT
- 2. Development of fibre optic probe based low laser therapy (LLLT) for tissue generation -DRDO
- 3. Genomic variation analysis and Gene expression profilling of Human Dosha Prakriti based on principals of Ayurveda - DST



4. The use of Indigenous Medicinal Plants and commercialized herbal products in the biological response modulation of cancer associated Chemo and radiotherapy and its associated side effects amongst cancer patients - DST

2013

- Molecular and Histological analysis of neurological disorders associated with mitochondrial DNA Mutations - DBT
- 2. Identification of diagnostic and prognostic biomarkers to improve the management of diabetic ulcers DBT (Indo-Aus)
- 3. Genetic evaluation of patients with mental retardation in Udupi & D.K. district of Karnataka State ICMR
- 4. Role of Medhya Rasayana on Ageing and stress induced Autophagy in Hippocampus DST
- 5. Functional genomics for understanding holistic principles of Ayurveda therapeutics with asthama as a model DST
- 6. Biotechnology Finishing School-Govt of karnataka
- 7. VGST-Govt of Karnataka (Infrastructure)

2014

- 1. Analysis of Molecular signalling proteins and epigenetic factors responsible for regulation of PEPCK Expression DBT
- 2. Analysis of metabolites of endophytic fungi from C3, C4 and CAM plants for therapeutic applications DST
- 3. Induction of Somaclonal Variations in Phyllanthus amarus Schum. & Thonn. and Phyllanthus urinaria Linn. By in vitro mutagnesis. Screening of mutant plants with enhanced secondary metabolities for biomedical applications ICMR

Completed Ph.D. research projects

| # | Name (year) | Title of Dissertation |
|---|---------------------------------|--|
| 1 | Dr. Sanjiban Chakrabarty (2013) | Construction and Characterization of Human BAC Library |
| 2 | Dr. Ashok Kumar (2014) | Epigenetic Modulation due to Radiation Effect |
| 3 | Dr. Raghavendra Upadhya | Screening and Characterization of Novel Compounds from |
| 3 | (2014) | Marine Organisms for Biomedical Applications |
| 4 | Dr. P.B. Ravikiran (2014) | Wound Healing Potential of Nigella Sativa in Mice Exposed to |
| 4 | Di. 1 .B. Ravikiran (2014) | Different Doses of Gamma Radiation |
| | Dr. Reena Reshma D'Souza | Indian human bacterial artificial chromosome: library |
| 5 | | construction and its characterization with the genome of |
| | (2014) | Epstein-Barr virus transformed Lymphoblastoid cells |
| 6 | Dr. Branita Bai (2014) | Pharmacogenomics of Critical Candidate Genes involved in |
| 6 | Dr. Pranita Pai (2014) | Drug Response to Schizophrenia |

Completed PG research projects

| # | Name | Title of Dissertation |
|---|----------------------|---|
| 1 | Advait Subramanian | An investigation on host-pathogen sensing during infection with <i>Salmonella</i> |
| 2 | Nishan BS | Assessment of mitochondrial damage induced by alpha and beta endosulfan – an <i>in-vitro</i> study |
| 3 | Prathyush Deepth Roy | Profiling of CpG island Methylation using High Resolution Melting and Bisulfite sequencing in Kapha Pitta and Vata Prakriti |



| | | individuals |
|----|---------------------|---|
| 4 | Elect I. D | Autofluorescence Characterization of Cancer and Normal Cell |
| 4 | Elroy Joe Pereira | Lines |
| 5 | Akshaykumar A Nayak | Anti-infective activity of endophytes from Cucurbitaceae |
| 6 | Arshia Angural | Study of genetic variations in host factors and their interaction for Malaria susceptibility and resistance to parasite |
| 7 | Vandana Singh | Expression of cytokines in diabetic and non-diabetic wounds: implications in wound healing |
| 8 | Ankita Walvekar | Generating molecular reagents to study Indian Hedgehog mediated patterning in embryoid bodies derived from mouse embryonic stem cells |
| 9 | Rashmi R | Anticancer Compounds from Marine Actinomycetes: Detailed studies on the anti-cancer properties of Plicacetin |
| 10 | Pavithra R Shetty | Effect of Amalaki Rasayana on Telomere Length |
| 11 | Milton Roy | Screening and molecular characterization of ubiquitous endophytes |
| 12 | Nivya Tholar | Triplet primed PCR method in molecular diagnostic testing for Fragile X syndrome |
| 13 | Vishnu Chandran | Influence of Tetrathiomolybdate on the Radiosensitizing Effect of Cisplatin under oxic and hypoxic conditions |
| 14 | Dhanur P Iyer | Clinical Prognostic Studies of TOP2A Gene Expression in Anthracycline treated Breast Cancer Patients: A Retrospective Indian Cohort Study |
| 15 | Asna Tungekar | Development of a simpler and cost-effective method for Fluorescence in situ hybridization using Quantum Dots |
| 16 | Manpreet Patheja | Molecular Effects of Mood Stabilizing Drugs on Human Cultured Cells |
| 17 | Shruti Kumar | Relative Assessment of Photosynthetic Efficiency in Tropical Orchids Using Portable Photosynthesis Measuring System |
| 18 | Moonmun Kanoi | Molecular Evaluation of Single Nucleotide Polymorphism in Congenital Cataract |
| 19 | Akshaya Hegde | Role of N WASP binding proteins in EGF induced Vinculin patch assembly |
| 20 | Swathy PS | Investigating Natural Product Approaches to Target Pathways Implicated in Diabetes Using Cell Based Screening |
| 21 | Sandra M Daniel | Analysis of transgenic brinjal (<i>Solanum melongena</i> L. var. Mattu gulla) overexpressing Chitinase gene for fungal disease resistance |
| 22 | Geethasudheer R | Evaluation of Anti-diabetic Potential of Selected Medicinal Plants with Anti-inflammatory Activity |
| 23 | Vidya BG | Mutation Screening of ATM and p53 genes and Expression Analysis of DBC2 in Breast Cancer Patients |
| 24 | Amrita Shrivastava | Nuclear Architecture Studies in Models of Cellular Differentiation and Development |
| 25 | Apurva Lad | Neutrophil Activation Under Diabetic Conditions |
| 26 | Hitendra Negi | Genetic Polymorphisms and its Role in Radiotherapy Induced Acute Skin Reactions |
| 27 | Clelia D'Souza | Clinical Prognostic Studies to Validate Candidate ER-Alpha Pathway Genes using Gene Expression Profiling – An insight into the Receptor Crosstalk Biology |
| 28 | Shweta R Dadhich | Identification of Novel Anti-Cancer compounds from Natural Products and elucidating their multiple target activity potential using cell based High Throughput Screening |
| 29 | Abhinav Chaturvedi | Synthesis of Derivatives of Bipyridine and Characterization of its Anticancer Activity |
| 30 | Apeksha Mathur | Database Development and Web Designing for Autoimmune Disease and siRNA Tool Development |



| 31 | Nahush B. N | Pathway Centered Gene Expression Compendium |
|----|---------------------|---|
| 32 | Smirti Mishra | Tool Development for "Mining Association Relationship in Diabetes mellitus (type1 and type2) Peptide Sequences" and Promoter Finder |
| 33 | Manjari Uppal | Construction of database for structural variations and genes associated with telomeric and sub-telomeric regions in Homo sapiens |
| 34 | Nitin Mandloi | Copy number variations analysis for colorectal cancer using microarray based aCGH |
| 35 | Jayati Narle | In- Silico Analysis Of Pyrazinamide Resistance Of Mycobacterium Species |
| 36 | Amit Kumar Gupta | A Genome Assembly Pipeline for NGS(454) Sequenced Data and Genome Analysis of Coconut (<i>Cocos nucifera</i> L.) Phytoplasma |
| 37 | Mohammad Imran Shah | Tool Development for "Mining Association Relationship in Breast Cancer Peptide Sequences" and "Promoter Finder" |

| Comparative deconjugation activities of the papain protease mutant proteins from genotype 1 and 4 hep Vishal Menon Ushal Menon Ashish Kumar Smrithi Comparative deconjugation activities of the papain protease mutant proteins from genotype 1 and 4 hep Identification of T-box family protein targets respond fate commitment in the mesoderm Functional analysis of mismatch repair using in vitral assay Quantitative Estimation of Vitamin B7 (Biotin) in I HPLC and Genetic Variation in Biotinidase (BTD) | liles senstains |
|---|------------------|
| 2 Vishal Menon Identification of T-box family protein targets respo fate commitment in the mesoderm Functional analysis of mismatch repair using in vita assay Quantitative Estimation of Vitamin B7 (Biotin) in I | |
| fate commitment in the mesoderm Ashish Kumar Functional analysis of mismatch repair using in vital assay Quantitative Estimation of Vitamin B7 (Biotin) in I | |
| 3 Ashish Kumar Functional analysis of mismatch repair using in vita assay Quantitative Estimation of Vitamin B7 (Biotin) in I | nsible for cell |
| assay Quantitative Estimation of Vitamin B7 (Biotin) in I | 1 . 1 1 |
| Quantitative Estimation of Vitamin B7 (Biotin) in I | o heteroduplex |
| / Smrithi | 21 1 |
| HPLC and Genetic Variation in Biotinidase (B1D) | • |
| · · · · · · · · · · · · · · · · · · · | |
| 5 Abhinav Rathi FOX1 gene in mesenchymal stem cells & study of | 0 |
| pattern via computational biology & bioinformatics | |
| 6 Ritwik Ravi Strain improvement for over-production of novel se | econdary |
| metabolites from Streptomyces spp. | 0.1 |
| 7 Sawmya Kotian J Effect of endophytes on photosynthetic efficiency of | |
| 8 Melisa Jovita Andrade Elucidation of Melanocyte Differentiation Program | through |
| Induced Pluripotent Stem Cells (iPSCs) in Vitiligo | |
| 9 Vishnu Priya Profiling of inflammatory and endothelial markers | in a South |
| Indian diabetes population | |
| Copy number variation in CREB3, EPBH1 and KC | NN genes in |
| bipolar disorder | |
| Nayak Divya Shrinivas Role of Small Molecule Chaperones in Protein Structure A. Garage Structure | cture and |
| Function: A Case Study | |
| 12 Jyotsna Jayaram Kadri Cardiotoxicity of anti-angiogenic drugs in the Zebr | |
| 13 Lakshmy Ramakrishnan Novel vaccine candidate offering protection over all | 1 four serotypes |
| of dengue virus | |
| 14 Mohthash Musambil Development of molecular diagnostic procedure to | detect inherited |
| disorders | |
| 15 Uday Sannakki Laser induced fluorescence study of cervical cancer | er samples |
| Study of Differential Matrix metalloproteinases Ac | tivity in |
| 16 Sumana Vasista Study of Differential Watth Inctanoproteinases Ac Normal, Cancer Cell Lines and Wound Swabs | • |
| 17 Aveho Dilno V V Identification, Validation and Functional Evaluation | n of Aberrantly |
| 17 Aysha Dilna V K Methylated Genes In Human Cervical Cancer | · |
| Role of Flavanoids in Amelioration of Mitochondri | al Dysfunction |
| 18 Ajanta Paul induced by Mercury Toxicity: An in vitro study usi | • |
| Human Fibroblast Cells | - 1 |
| 19 Deepti Prasad The Exploration of Possible Targets of Antimicrob | ial Peptides |
| 20 Shweta Chakraborty Sorghum as an anticancer agent and its therapeutic | |



| 21 | Varsha Vivek | APOE4 association with dementia: comorbidity with diabetes and |
|----|------------------------|---|
| | V 41 5114 V 1 V 511 | hypertension |
| 22 | Alumelu J | Effect of Shankhpushpi extract on the DNA repair and neuronal |
| 22 | | differentiation |
| 22 | Apoorva Sreekanth Naik | Cloning and expression of Gene X coding for protein 'PX' in E. |
| 23 | | coli |
| 24 | Srija Moulik | Effect of molecule 'x' on the biofilm formation of Salmonella |
| 25 | Domonion avulu Hoouthi | Effect of Shankhpushpi rasayana on DNA repair and autophagy in |
| 23 | Ramanjaneyulu Usarthi | ischemic stress induced rats |
| 26 | F | Hyperglycemia induced Extracellular matrix (ECM) remodelling |
| 26 | Faraz | in neuronal cells: Role in diabetic neuropathy |
| 27 | Nakka Subrahmanyam | Visual Detection of Genetic Polymorphisms in Folate Metabolism |
| 27 | | Genes and its association with Acute Lymphoblastic Leukaemia |
| 28 | Swati Suresh Dudhal | Study the propensity of differentiation of mesenchymal stem cells |
| 28 | | into dopamine neurons |
| 20 | IZ1-11 | Role of pan-inflammatory molecules in chronic inflammatory |
| 29 | Kushika | disorders |
| | | A Novel Strategy to Simplify Molecular Diagnosis and Screening |
| 30 | Kunal Singh | of Myotonic Dystrophy Type I, the Most Commonly Inherited |
| | | Muscular Dystrophy |
| 21 | Arpitha G.G. | De novo Genome Assembly and Annotation of Staphylococcus |
| 31 | | aureus |
| 22 | Vibbo Nim | Genome Assembly of Staphylococcus aureus using Reference- |
| 32 | Vibha Nim | Based Method |

| # | Name | Title of Dissertation |
|----|-----------------------------|--|
| 1 | R Anush | Implication of TFAM, POLRMT gene mutation & copy number in mitochondrial disorders |
| 2 | Avika Roy | Humoral immune responses in macaques immunized with a novel HIV-1 lentivector-based DNA vaccine |
| 3 | Richa P Bhatt | Studying the mechanism of FMRP mediated Translation Regulation |
| 4 | Fathima Mohammed Ahamed | Effect of Botropase from <i>Bothrops atrox</i> and Crude Extract isolated from <i>Morinda</i> citrifolia L. on Blood Coagulation Process |
| 5 | Rohit Bharat | Functional importance of 6-Phospho gluconate dehydrogenase (6PGD) in MCF-7. A therapeutic target against breast cancer |
| 6 | Supriti Ghosh | Identification, Characterization and Functional Evaluation of Methylation Regulated Genes in Cervical Cancer |
| 7 | Vijetha Nagendra Prakash | Magnetic bead based extraction of human sperms from semen based on their hyaluronic acid binding ability |
| 8 | Geetha Shree N | The Role of Novel Stem Cell Markers and Tumor Suppressor Gene on Glioblastoma Multiforme Prognosis |
| 9 | Vibha Vyas Haridas | Model development for liver fibrosis |
| 10 | Komal Sharma | Resistance and virulence patterns among <i>Pseudomonas aeruginosa</i> isolates from diabetic foot ulcer infections |
| 11 | Garima Shahi | Diffusion Tensor Imaging and Voxel Based Morphometry Analysis on Trigeminal Neuralgia |
| 12 | Nishchal | Autofluorescence Imaging of Acidic and Basic Native PAGE |
| 13 | Namita Gidakatti | Development of a dried RT-PCR master mix for the molecular detection of major retroviruses from clinical samples |
| 14 | Himani Tripathi | Regulation of Luteinizing Hormone/Choriogonadotrophin Receptor (LH/CGR) in Rat Corpus Luteum |
| 15 | Amanda Grace Vaz | Development of an Immunoserological test against Malaria using Monoclonal antibodies |



| 16 | Kongo Atho Grace Audelene | Validation of single nucleotides polymorphism in various genes from exome sequence in chronic myeloid leukemia patients |
|----|------------------------------|---|
| | | Studies to understand the regulation and function of DDX5, an |
| 17 | Swati S Rao | RNA helicase in rat corpus luteum |
| | | Investigating a Possible Antiviral activity of Eukaryotic Initiation |
| 18 | Pratik Arvind Vyas | Factor 3-subunit f against Hepatitis C Virus |
| | | Association study of ASMT gene with Autism Spectrum Disorder |
| 19 | Mariet Mathew Stephen | in a South Indian Population |
| 20 | | Expression and Refolding of Engineered Eukaryotic Rieske |
| 20 | Zainub T Madarwala | Oxygenase Mutants |
| 21 | G : GM d | Functional characterization of quiescent stem cells in fresh water |
| 21 | Supriya S Murthy | cnidarian Hydra |
| 22 | Sandhya N | Role of iNKT Cells in Non-Alcoholic Fatty Liver Disease |
| 22 | W.P. D.L. | Role of Single Nucleotide Polymorphism in Breast Cancer |
| 23 | Valita P Lobo | Predisposition |
| | | DNA Base Excision Repair Modulation in PTCH1-/+ Dermal |
| 24 | Prakriti Haldia | Fibroblasts Isolated from Healthy Skin of Gorlin Syndrome |
| | | Patients |
| 25 | Chandni Lal | Expression of recombinant sIL-6r in mammalian cells |
| | Sharon Chechamma Varghese | Study of differential regulation of various zinc finger proteins in |
| 26 | | Pichia pastoris using real time PCR under different carbon source |
| 20 | | conditions and cloning of putative zinc finger transcription factor |
| | | PAS_0166 from <i>Pichia pastoris</i> |
| 27 | Suresh K | Screening of small molecules and standard compounds in |
| 21 | Suresii K | immunomodulation assays |
| 28 | A Y Mohammed Tariq | Detection of <i>Plasmodium falciparum</i> infection in human blood by |
| 20 | 7 1 Wohammed Tariq | using gold nano-particles |
| 29 | Prasanna Maratanger | Analysis of DNA Methylation and Duplication of SHANK3 Gene |
| 2) | Trasama Waratanger | CpG islands in Bipolar Disorder |
| 30 | Aditya Jain | 1-CMDb: Database for variation in human one carbon metabolism |
| | 7 Cartya Jam | pathway |
| | _ | Bioinformatic Analysis of <i>AerA</i> Gene Sequences; Cloning and |
| 31 | Suparna Roy | Expression of a Gene from Aeromonas hydrophila MTCC 646 and |
| | | Development of Perl Program for Biology use |
| 32 | Reshma | A study on evolution of protein domain |
| | | Architecture |
| 33 | Sheldon Pereira | Application of SAS and CDISC Standards in Oncology Trials |
| 34 | Pooja S | Gene Expression Analysis for Understanding Brain Functions |

Completed UG research projects 2012

| # | Name | Title of Dissertation |
|---|--------------------------|--|
| 1 | Chaitra Rao | Association of delta-amino levulinic acid dehydratase (ALAD) polymorphism on blood lead levels and understanding biology of lead effects using EBV transformed human B cells |
| 2 | Harshith | Role of Thymol in Mitigating Mercury Induced Cytotoxicity in Hepato-cellular Carcinoma (HepG2) Cells: A Post Treatment Scenario |
| 3 | Jitender Kumar | Studies on in vitro propagation of banana (Musa sp.) |
| 4 | Komal Sharma | Screening of subtle Chromosome rearrangements using high- resolution G-banding |
| 5 | Edward Mark Fernandes | In Vivo Laser Induced Fluorescence (LIF) as an objective tool to monitor wound healing following Low Level Laser Therapy |
| 6 | Priya Joshi | Impact of TCF7L2 Gene Variant on Risk of Type II Diabetes |



| 7 | Rohit Bharath | Quantification of <i>DAXX</i> and <i>CTSF</i> gene copy numbers using Multiplex Ligation Dependent Genome Amplification in Colorectal Cancer. |
|----|---------------------------------|---|
| 8 | Shilpa Patil | Analysis of extracellular matrix proteins under hypoxic conditions in hepatocarcinoma (HepG2) cell line |
| 9 | Vikram Singh Tomar | Identification and validation of differentially methylated genes in Breast Cancer |
| 10 | Mohamed Zahir Alimohamed | Analysis of plasmids from bacteria associated with Chronic Foot Ulcers |
| 11 | Sunaina Banerjee | Standardization and assessment of Enzyme Kinetics involved in malate oxidative decarboxylation in Plant Systems |
| 12 | Prakriti Haldia | Association Studies of <i>MDR1</i> gene with Schizophrenia and antipsychotic drug response |
| 13 | Zainub Madarwala | Diagnosing Huntington's chorea by characterization of CAG repeats in <i>HTT</i> gene |
| 14 | Abhishek Singh | In vitro regeneration and quantification of Alizarin and other secondary metabolites in <i>Rubia cordifolia</i> |
| 15 | Akshansh Bharadhwaj | Standardisation of culture and direct sensitivity testing of Mycobacterium tuberculosis to Rifampicin in specific liquid culture medium |
| 16 | Shashika Lavangi Wijesooriya | Incidence and etiology of sub-clinical mastitis in dairy cattle in Gampaha district, Sri Lanka |

| SI. No. | Name | Title of the project |
|------------|------------------------|--|
| 1. | Hina Ayesha Shafi | Implications of TFAM Gene Mutations in Relation to Mitochondrial Function |
| 2. | Pooja Shyamala Sridhar | Analysis of SOD, GST and TGF- β1 Plasma Levels, Their Single Nucleotide Polymorphisms and its Association with Radiotherapy Induced Adverse Reactions in Cancer Patients |
| 3. | Srujan C | Implications of bacterial toxins/metabolites and biofilms on chronic wound healing – An <i>in vitro</i> study |
| 4. | Ravi Nepali | Role of Shankapushpi on DNA repair capacity in Human Neuroblastoma Cells |
| 5. | Yashika Khandelwal | Standardization of the Molecular Diversity in <i>Dendrobium</i> Plant (hybrid <i>vs D. ovatum</i>) |
| 6. | Satyam Srivastava | Molecular Characterization of pathogens Associated with Diabetic Foot Ulcer |
| 7. | Anindita Mitra | Screening of Single Nucleotide Polymorphisms in Il-6 gene |
| 8. | Geetika Datta | Genetic Predictors of Chemoradiotherapy Induced Acute Skin Toxicities |
| 9. | Apoorva Jnana | Effect of 2 deoxy D glucose on repair of radiation induced damage in normal cells |
| 10. | Pradeep Harish | Genetic basis of different growth rates in size selected zebra fish |
| 11. | Shikha Srivastava | Molecular Detection Of <i>Plasmodium vivax</i> In Human Blood |
| 12. | Amrisha Singh | Identification and Validation of Aberrant DNA Methylation Marks in Cervical Cancer |
| 13. | Shubhi Sinha | Identification and Validation of Polymorphism in Promoter of PEPCK Isoforms |
| 14. | Surabhi Mishra | Genetics of Congenital Heart Diseases |
| 15. | Anusha Acharya | Predictive Potential of Fluorescence Spectroscopy as an Objective Tool to Evaluate Wound Granulation Tissues |
| 16. | Somyasree | Promoter DNA Methylation of Developmental Genes in Prakriti Samples |
| 17. | Fernandes Nikita | Association of Polymorphism in δ-ALAD Gene with Blood |



| | Darlene | Lead Levels and Its Effect on Genetic Damage |
|-----|-------------------|--|
| 18. | Maya Roy | Synthesis and Characterization of New Bivalent metal Chelators as Anticancer Targets and their mechanism of action |
| 19. | Anjali D Talreja | Association Study of <i>SLC30A8</i> Polymorphism (rs13266634) with Type 2 Diabetes |
| 20. | Pranoy Kumar Sahu | Understanding the Metabolic Processes involved in Neuritogenesis using high throughput Metabolomics Approach |
| 21. | Ayushi Rai | To Study the Association of Methylation of <i>ABCB1</i> and <i>ADRB2</i> gene Methylation with Malaria |
| 22. | Aparna Sinha | Occurrence and Identification of Fungal and Bacterial Diseases in Brinjal (<i>Solanum melongena L.</i>) var. Mattu Gulla |
| 23 | Ann Isaac | Investigation of the Effect of Vitamin-E on The Cytotoxicity and Activity of Camptothecin on a Cancer Cell Line |
| 24 | Rituraj James | Analysis of Next-Generation Sequencing Data for Antibiotic Resistant Strain of Staphylococcus Aureus |
| 25 | Prashanth Singh | Analysis of Integration, Origin & in vivo Differentiation in Induced Pluripotent Stem Cells |
| 26 | Vunnam Chaithanya | Copy Number Variation Analysis of Candidate Genes in Bipolar Disorder |

| SI. No. | Name | Title of the project |
|------------|--------------------------------|--|
| 1. | Fatmah Zahra Mehboob Rashid | An Association Analysis of the Effects of CNVs and DNA Methylation Patterns on Distinct Phenotypes |
| 2. | Debbie Mariam Jose | Generation of Promoter Deletion Mutants in Senescence- Associated Breast Cancer Genes |
| 3. | Minal Chaturvedi | Study of Single Nucleotide Polymorphisms of CRHR1 Gene and its Association with Therapeutic Drug Response in Asthma Patients |
| 4. | Akanksha Mathur | Analysis of Gadl1 Gene Polymorphisms in BD and Lithium Response in a South Indian Population |
| 5. | Amrita P V | Investigation of Hyperglycemia Induced Changes in Metabolic Processes in Neutrophils |
| 6. | Gail Marjorie Fernandes | Effect of Genistein on energy metabolism enzymes in rat hepatocytes and hepatocarcinoma cell lines |
| 7. | Manchi Vathsalya | The effect of low level laser irradiation on inflammatory response during burn wound repair - A pre-clinical study |
| 8. | Ishani Bhat | Effects of Tamra bhasma on biological functions in <i>in vivo</i> mice system |
| 9. | Hiranya Aditi | Functional Evaluation of ADRB2 Gene Variants in Mammalian Cell Culture System Through Cloning and Expression Studies |
| 10. | Alekhya Mazumdar | Characterization of Host – Pathogen Interactions: The Response To A Bacterial Biofilm |
| 11. | M Aparna Prasad | Role of Endophytic Bacteria in Phytostabilization of Toxic Heavy Metals |
| 12. | Preeta Ananthanarayanan | Engineering of Superparamagnetic Iron Oxide Nanoparticles Conjugated Geldanamycin Against Breast Cancer Cells. |
| 13. | Ishita Basu | Development of Genotyping Assay for detection of single Nucleotide Polymorphism Associated with Type2 Diabetes. |
| 14. | Remanika Edolia | The Impact of Abiotic Stress on the Growth Hormones, Proteins, Pigments and Endophytes of <i>Solanum melongena</i> L. Var. Mattu Gulla |
| 15. | Pallavi Mathur | Haploid Production and Cytological Studies in <i>Dendrobium</i> ovatum |
| 16. | Aarushi Jain | Cloning and Expression study of human TFAM protein |



| 17. | Purba Sarkar | Identification and Validation of DNA Methylation and miRNA Associated Signatures in Cervical Cancer | |
|-----|------------------------------|--|--|
| 18. | Maben Janith Mary | Cloning, Expression and Purification of Zinc Finger Protein 471 (ZNF471) | |
| 19. | Aayushi Yadav | Development Of Molecular Diagnostic Procedure To Detect Friedreich's Ataxia: A Trinucleotide Repeat Neurodegenerative Disorder | |
| 20. | Neethu V | Screening for Anticancer Metabolites from Fungal Endophytes | |
| 21. | Shivani Shekar | Evaluation of DNA Repair Capabilities of Oral Squamous Cell Carcinoma (OSCC) Cell lines and Fibroblasts | |
| 22. | Sharma Kashish | Genetic Association of BHMT (rs3733890) and ATIC (rs2372536) with Acute Lymphoblastic Leukemia in South Indian Population | |
| 23. | Naima Haque | Clinical and Genetic Screening of Down syndrome with Congenital Heart Defects | |
| 24. | Nishika | Quantum Dot Fluorescence In situ Hybridization [QD-FISH]: Development, Standardization and Diagnostic Application | |
| 25. | Moushumi Goswami | Influence of Selected Gene Variants on the Chemotherapy and Radiotherapy Induced Normal Tissue Toxicity in Breast Cancer Patients | |
| 26. | Sheth Dhruv Rajendrakumar | Novel Bivalent Metal Chelators as Target for Hdacs and RR Enzymes and its Anticancer Property | |
| 27. | Arya Shambhavi | Expression and Purification of Double C2-Like Domain-Containing Protein Beta (DOC2B) | |

Students from other Universities/Institutes who have undertaken project at School of Life Sciences using the infrastructure set up.

| # | Name | University/ Institute | Title of Dissertation |
|------|------------------|--------------------------|--|
| 2012 | (January to Apri | il) | |
| | | | Genotype and Allele Frequency of ADORA2A |
| 1 | Neenu | Jammu University, | Gene Polymorphism NC |
| 1 | Gandotra | Jammu | 000022.10:g.24837301T>C (rs 5751876) in an |
| | | | Indian population |
| 2 | Richa Pathania | Jammu University, | Cytogentic and CGG repeats screening in patients |
| | | Jammu | with premature ovarian failure |
| 3 | Radhika | Jammu University, | Mutations Screening in N-Acetylgalactosamine-6- |
| 3 | Sharma | Jammu | sulfatase (GALNS) gene |
| 4 | Nisha Khah | Jammu University, | Identification of Staphylococcus species using |
| | | Jammu | Multilocus Sequence Typing |
| 5 | Sunita Pandita | Jammu University, | Association of CYP2C9 Gene Variants with the |
| | | Jammu | Risk of Type 2 Diabetes in South Indian Population |
| 6 | Nahid Akhter | Jammu University, | Identification of Gene Specific Methylation in |
| | | Jammu | Cervical Cancer |

| 2013 (February to April) | | | |
|---------------------------|----------------|----------------------------|--|
| 1 | Sukirti Sharma | Jammu University, Jammu | Cloning based bisulfate sequencing in Prakriti Samples |
| 2 | Nitika Langeh | Jammu University, Jammu | Study on DNA Methylation Level and Invitro Anticancer Activity of Ashwagandha [Withania Sommifera (L) Dunel] |
| 3 | Gargi Sarkar | Jammu University, Jammu | Validation by DNA Methylation in the ILITRA promoter region by bisulfate sequencing of Asthma before and after Ayurveda Intervention samples |



| 4 | Rashmi Thapa | Jammu University, | Clinical Diagnosis of JAK2V617F Mutation by |
|---|----------------|----------------------------|---|
| | | Jammu | Molecular Techniques |
| 5 | Ramandeep | Jammu University, | Cloning And Identification of mUtation Specific |
| | Singh | Jammu | Exons of CFTR, FGFR3 and SMW1 genes |
| 6 | Manik Vohra | Jammu University, Jammu | Impact of PRARG (rs 1801282) and SLC47A1 (rs |
| | | | 8065082) gene Polymorphism on the risk of Type 2 |
| | | | Diabetes |
| 7 | Scynthia Singh | Jammu University, | Bacterial Isolates from diabetic foot ulcers: Biofilm |
| | Bhau | Jammu | formation and Antibiotic drug resistance profile |
| 8 | Sakshi Abrol | Jammu University, | Modification of the Conventional Lymphocyte |
| | | Jammu | culture for faster Diagnostic Testing |

| 2014 (February to April) | | | |
|--------------------------|-------------------------|----------------------------|---|
| 1 | Shiva Saproo | Jammu University, | Mitochondrial DNA Copy Number in Estrogen |
| 1 | | Jammu | Receptor Positive and Negative Breast Cancer |
| 2 | Zakiya Ahsan | Jammu University, | Identification and Validation of Gene Specific |
| | | Jammu | Methylation Profiles in Breast Cancer |
| 3 | Pooja Loachan | Jammu University, | Standardization of H2O2 induced senescence |
| 3 | | Jammu | model. |
| | Vijay Lakshmi Jamwal | Jammu University, Jammu | Standardization of chromosome banding |
| 4 | | | techniques in two Dendrobium species of Western |
| | | | Ghats |
| | Ekta Jamwal | Jammu University, Jammu | Genetic Association of ADIPOQ (rs 16861194) and |
| 5 | | | ABCC8 (rs 757110) Gene Polymorphism With |
| | | | Type 2 Diabetes |
| 6 | Anu Radha | Jammu University, | Characterization of Proteins with Ribonuclease |
| O | Sharma | Jammu | Activity In Bothrops atrox venom |

Publications:

* Number of papers published in peer reviewed journals (national / international) - 75

2012

INTERNATIONAL: 21

1. Tharoor H, Kotambail A, Jain S, Sharma PSVN and Satyamoorthy K 2012.

Association study of serotonin transporter triallelic 5-HTTLPR and STin2 VNTR polymorphisms with lithium prophylaxis response in bipolar disorder.

Psychiatric Genetics 2:77-81.

2. Guruprasad KP, Subramanian A, Singh VJ, Sharma RS, Gopinath PM, Sewram V, Varier PM, Satyamoorthy K. 2012

Brahmarasayana protects against Ethyl methanesulfonate or Methyl methanesulfonate induced chromosomal aberrations in mouse bone marrow cells.

BMC Complement Altern Med. 12:113.

3. Chakrabarty S, D'Souza RR, Bellampalli R, Rotti H, Saadi AV, Gopinath PM, Acharya RV, Thangaraj K, Satyamoorthy K. 2012.



Comprehensive DNA copy number profile and BAC library construction of an Indian individual.

Gene. 500:186-193.

4. Girisha KM, Shrikiran A, Bidchol AM, Sakamoto O, Gopinath PM, Satyamoorthy K. 2012

Novel mutation in an Indian patient with Methylmalonic Acidemia, cblA type.

Ind J Hum Genet, 18: 346-348.

5. Shivakumar BM, Kumar BL, Bhat G, Suvarna D, Rao L, Pai CG, Satyamoorthy K. 2012

Molecular alterations in colitis-associated colorectal neoplasia: study from a low prevalence area using magnifying chromo colonoscopy.

J Crohns Colitis. 6:647-654.

6. Dutta A, Shetty P, Bhat S, Ramachandra Y, Hegde S. 2012.

A mass spectrometric study for comparative analysis and evaluation of metabolite recovery from plasma by various solvent systems.

J Biomol Tech 23:128-135.

7. Shruthi SD, Padmalatha Rai S, Ramachandra YL. 2012.

Isolation, characterization, antibacterial, antihelminthic, and in silico studies of polyphenol from Kirganeli areticulata Baill.

Medicinal Chemistry Research.doi: 10.1007/s00044-012-0295-4.

8. Goutham HV, Mumbrekar K, Vadhiraja BM, Fernandes DJ, Sharan K, Guruprasad KP, Satyamoorthy K, Satish Rao BS. 2012.

DNA double strand break analysis by γ -H2AX foci: A useful method for determining the over-reactors of radiation induced acute reactions among head and neck cancer patients.

Int J of Radiat Oncol Biol Phys 84: e607 – e612

9. Rai PS, Bellampalli R, Dobriyal RM, Agarwal A, Satyamoorthy K, Anantha Narayana DB.2012

DNA barcoding of authentic and substitute samples of herb of the family Asparagaceae and Asclepiadaceae based on the ITS2 region.

Journal of Ayurveda and Integrative Medicine. 3: 136-140.

10. Muthusamy A, Pratibha PK, Prabhu V, Mahato KK, Vidhu SB, Rao MR, Gopinath PM, Satyamoorthy K. 2012.



Influence of Helium-Neon laser irradiation on seed germination in vitro and physico-biochemical characters in seedlings of brinjal (Solanum melongena L.) var. Mattu Gulla. Photochem Photobiol. 88:1227-1235.

11. Coutinho MF, Santos Lda S, Girisha KM, Satyamoorthy K, Lacerda L, Prata MJ, Alves S. 2012.

Mucolipidosis type II α/β with a homozygous missense mutation in the GNPTAB gene. Am J Med Genet. 158: 1225-1228.

12. Mascarenhas R, Sham PK, Pai HV, Kamath H, Gran J, Gopinath PM and Satyamoorthy K. 2012.

Analysis of mitochondrial DNA variations in Indian Patients with Congenital Cataract. Molecular Vision. 18: 181-193.

13. Prabhu V, Rao BSS, Chandra S, Kumar P, Rao L, Vasudeva G, Satyamoorthy K and Mahato KK. 2012.

Spectroscopic and histological evaluation of wound healing progression following low level laser therapy (LLLT),

Journal of Biophotonics 5: 168-184.

14. Swati P, Thomas B, Vahab SA, Satyamoorthy K, Kushtagi P. 2012.

Simultanious detection of periodontal pathogens in subgingival plaque and placenta of women with hypertension in pregnancy.

Arch Gynecol Obstet. 285: 613-619.

15. Ramachandra YL, Ashajyothi C, Padmalatha Rai S. 2012.

Evaluation of antidiabetic and antipyretic activity of ButeaMonosperma (Lam) extracts on rats.

International Journal of Preclinical and Pharmaceutical Research. 3: 73-78.

16. Ramachandra YL, Ashajyothi C, Padmalatha Rai S. 2012.

Antioxidant activity of alstoniascholarsis extracts containing flavonoid and phenolic compounds.

International Journal of Pharmacy and Pharmaceutical Sciences.4: 424-427.

17. Neetha J, Girisha KM, Gopinath PM, and Sekhar MR. 2012.

A de novo translocation of Chromosome 1 and 2 in an 18 year old boy with syndromic mental retardation.

Genetic Counseling. 23: 473-476.

18. Sreelakshmi K, Muralidhar V Pai, Jayraman N and Rajasekhar Moka. 2012.

Premature ovarian aging in primary infertility: Triple X syndrome.

J Hum Rep Sci 4:163-164.



19. Ellmann L, Joshi MB, Resink TJ, Bosserhoff AK and Kuphal S. 2012.

BRN-2 is a transcriptional repressor of CDH-13 (T-cadherin) in melanoma cells.

Lab Invest 92:1788-1800.

20. Kyriakakis E, Maslova K, Philippova M, Pfaff D, Joshi MB, Buechner SA, Erne P and Resink TJ. 2012.

T-cadherin is an auxiliary negative regulator of EGFR pathway activity in cutaneous squamous cell carcinoma: impact on cell motility.

J Invest Dermatol. 132:2275-2285.

21. Joshi MB*, Philippova M*, Pfaff D, Kyriakakis E, Maslova K, Erne P and Resink TJ. 2012.

T-cadherin attenuates insulin-dependent signaling, eNOS activation and angiogenesis in vascular endothelial cells.

Cardio Vasc Res. 93:498-507. * Equal Contribution.

NATIONAL: 0

2013

INTERNATIONAL: 17

 Francis A, Pooja S, Rajender S, Govindaraj P, Tipirisetti NR, Surekha D, Rao DR, Rao L, Ramachandra L, Vishnupriya S, Ramalingam K, Satyamoorthy K, Thangaraj K. 2013

A mitochondrial variant 10398G>A in breast cancer among South Indians: an original study with meta-analysis.

Mitochondrion, 13:559-565. Impact factor: 4.1

2. Gupta H, Sakharwade SC, Angural A, Kotambail A, Bhat GK, Hande MH, D'Souza SC, Rao P, Kumari V, Saadi AV, Satyamoorthy K. 2013

Evidence for genetic linkage between a polymorphism in the GNAS gene and malaria in South Indian population.

Acta Tropica. 128: 571–577 Impact factor: 2.787

3. Jois S, Chandru S, Chavan A, Ramachandra YL, Padmalatha Rai S. 2013

Study on Production, Purification and Characterisation of L-Asparaginase from *Escherichia coli* and *Pseudomonas aeruginosa*.

Journal of Pharmaceutical, Chemical and Biological Sciences 3(3), 565-570

4. Joshi MB, Lad A, Bharath Prasad AS, Balakrishnan A, Ramachandra L, Satyamoorthy K. 2013



High glucose modulates IL-6 mediated immune homeostasis through impeding neutrophil extracellular trap formation.

FEBS Lett. 11:587 (14):2241-6. Impact Factor: 3.5

5. Kabekkodu SP, Bhat S, Mascarenhas R, Mallya M, Bhat M, Pandey D, Kushtagi P, Thangaraj K, Gopinath PM, Satyamoorthy K. 2013

Mitochondrial DNA variation analysis in cervical cancer.

Mitochondrion, S1567-7249. Impact Factor: 4.1

6. Murali TS, Thirunavukkarasu N, Rajulu GMB, Suryanarayanan TS. 2013

Fungal communities of symptomless bark of tropical trees

Mycosphere 4(3):627-637. Impact Factor: 1.0285

7. Muthusamy A, Jayabalan N. 2013

Variations in seed protein content of cotton (*Gossypium hirsutum* L.) mutant lines by *in vivo* and *in vitro* mutagenesis.

- J. Environ. Biol. 34(1):11-16. Impact Factor: 0.68
- 8. Rajasekar M, Sreelakshmi K, Gopinath PM, Satyamoorthy K. 2013

Cytogenetic evaluation of patients with clinical spectrum of Turner syndrome

J Hum Rep Sci. 6: 129-132.

9. Rajasekhar M, Gopinath PM, Sreelakshmi K, Satyamoorthy K. 2013

A Cytogenetic Study of Couples with Miscarriage: An Experience from Manipal Referral Centre.

Int J Hum Genet, 13: 93-97. Impact Factor: 0.31

10. Ramachandra YL, Ashajyothi C, Sreepadaraja HJ. Padmalatha Rai S. 2013

Antimicrobial activity of Citrusrind oil isolated from Citrus aurantium

International Journal of Pharma World Research. 4(1) (Online)

11. Ramachandra YL, Sreepadaraja HJ, Gurumurthy H, Ashajyothi C, Padmalatha Rai S. 2013

Evaluation of antioxidant activity of aervalanata and *Boerhivia diffusa* plant extracts in CCl₄ toxicated rats.

International Journal of Drug Formulation and Research. 4(1), (Online)

12. Saadi AV, Gupta H, Angural A, Dhanya SK, Mony S, Oberoi D, D'Souza SC, Sahoo SC, Hande MH, Gopinath PM, Satyamoorthy K. 2013

Single nucleotide polymorphisms of ADRB2 gene and their association with susceptibility for *Plasmodium falciparum* malaria and asthma in an Indian population



Infection, Genetics and Evolution 20:140–147 Impact factor: 2.768

13. Sawmya K, Vasudevan TG, Murali TS. 2013

Fungal endophytes from two orchid species – pointer towards organ specificity.

Czech Mycology 65: 89-101.

14. Shivakumar BM, Lakshmi Rao, Satyamoorthy K, Ganesh C Pai. 2013

Synchronous colorectal neoplasms in ulcerativepancolitis of 6 years duration: pathological and molecular heterogeneity.

BMJ Case Rep. doi: 10.1136/bcr-2013-200172.

15. Shruthi SD, Sujan Ganapathy PS, Padmalatha Rai S, Ramachandra YL. 2013

In vitro, in vivo and in silico antiarthritic studies of polyprenol from Kirganelia reticulate Baill.

Journal of Biochemical Technology 3(5):234-237. Impact factor: 0.9032

16. Singh P, Amirtharaj F, Singh R, Rakesh T, Raja R, Karan Singh S, Kaling M, Goel MM, Daminani S, Rao DR, Rao L, Ramachandra L, Kumar S, Kumar S, Satti V, Satyamoorthy K, Negi MPS, Thangaraj K, Konwar R. 2013

Strong Impact of TGF-b1 Gene Polymorphisms on Breast Cancer Risk in Indian Women: A Case-Control and Population-Based Study.

PLoS ONE. 8:e75979. Impact Factor: 3.730

17. Tharoor H, Kotambail A, Jain S, Sharma PS, Satyamoorthy K. 2013

Study of the association of serotonin transporter triallelic 5-HTTLPR and STin2 VNTR polymorphisms with lithium prophylaxis response in bipolar disorder.

Psychiatric Genetics. 2:77-81. Impact factor 2.365

NATIONAL: 2

1. John N, Rajasekhar M, Girisha KM, Sharma PS, Gopinath PM. 2013

Multiplex ligation-dependent probe amplification study of children with idiopathic mental retardation in South India.

Indian J Hum Genet. 19:165-70

2. Rajasekhar M, Sreelakshmi K, Gopinath PM, Satyamoorthy K. 2013

Cytogenetic study in recurrent pregnancy loss: an experience from tertiary care centre.

Genetic Counseling, 24(3): 347 – 349. Impact Factor: 0.51



INTERNATIONAL: 32

1. Mumbrekar KD, Fernandes DJ, Goutham HV, Sharan K, Vadhiraja BM, Satyamoorthy K, Bola Sadashiva SR. 2014

Influence of double-strand break repair on radiation therapy-induced acute skin reactions in breast cancer patients.

Int J Radiat Oncol Biol Phys. 88(3):671-6.

2. Murali TS, Paul B, Parikh H, Singh RP, Kavitha S, Bhat MK, Satyamoothy K. 2014
Genome Sequence of four Clinical *Staphylococcus aureus* Strains with Diverse Drug
Resistance Profiles Isolated from Diabetic Foot Ulcers.

Genome Announc. 2(2):e00204-14.

3. Phani NM, Acharya S, Xavy S, Bhaskaranand N, Bhat MK, Jain A, Rai PS, Satyamoorthy K. 2014

Genetic association of *KCNJ10* rs1130183 with seizure susceptibility and computational analysis of deleterious non-synonymous SNPs of *KCNJ10* gene

Gene, 536:247-253. (IF 2.24)

4. Frismantiene A, Pfaff D, Frachet A, Coen M, Joshi MB, Maslova K, Bochaton-Piallat ML, Erne P, Resink TJ, Philippova M. 2014

Regulation of contractile signaling and matrix remodeling by T-cadherin in vascular smooth muscle cells: Constitutive and insulin-dependent effects.

Cell. Signal. 26:1897-908 (IF 4.09)

5. Balakrishnan A, Satyamoorthy K, Joshi MB. 2014

Role of IL-6/JAK/STAT pathway in inducing vascular insulin resistance.

Mol. Cytogenet., 7(Suppl 1), P96.

6. Rajasekhar M, John N, Borkar Y, Shetty KR. 2014

MLPA analysis of transcriptional gene(s) variations in patients with congenital heart septation defects.

Mol. Cytogenet., 7(Suppl 1):P23 doi:10.1186/1755-8166-7-S1-P23.

7. Borkar Y, Shetty KR, Krishnanand K, Rajasekhar M. 2014

Identification of NKX2-5 and GATA4 sequence variations in patients with cardiac septation defects.

Mol. Cytogenet.. 2014, 7(Suppl 1):P27 doi:10.1186/1755-8166-7-S1-P27.

8. Phani NM, Guddattu V, Bellampalli R, Seenappa V, Adhikari P, Nagri SK, D'Souza SC, Gopinath PM, Satyamoorthy K, Padmalatha Rai S. 2014



Population specific impact of genetic variants in KCNJ11 gene to type 2 diabetes: a case-control and meta-analysis study.

PLoS One 9, e107021. (Impact factor 3.7)

9. Bellampalli R, Phani NM, Bhat KG, Prasad K, Bhaskaranand N, Guruprasad KP, Padmalatha Rai S, Satyamoorthy K. 2014

Significance of MTHFR gene variants in acute lymphoblastic leukemia in Indian population: An experimental, computational and meta-analysis.

Leuk. Lymphoma (doi:10.3109/10428194.2014.953154) [Impact Factor:2.605]

10. Padmalatha Rai S, Pai GC, Alvers JF, Bellampalli R, Gopinath PM, Satyamoorthy K. 2014

Inter-individual somatic variation in MTHFR gene polymorphism in relation to colon cancer.

Pharmacogenomics 15:349-359. (Impact Factor: 3.4)

11. Phani NM, Acharya S, Xavy S, Bhaskaranand N, Bhat MK, Jain A, Padmalatha Rai S, Satyamoorthy K. 2014

Genetic association of KCNJ10 rs1130183 with seizure susceptibility and computational analysis of deleterious non-synonymous SNPs of KCNJ10 gene.

Gene 536:247-25 (Impact Factor: 2.24)

12. Kotambail A, Mathur A, Bhat SM, Rai PS, Sharma PS, Satyamoorthy K. 2014

GADL1 gene polymorphisms and lithium response in bipolar I disorder: lack of association from an Indian population.

Psychiatr. Genet. DOI 10.1097/YPG.000000000000066 (Impact Factor: 2.365)

13. Phani NM, Padmalatha Rai S, Adhikari P, Nagri S, D'Souza S, Gopinath PM, Satyamoorthy K. 2014

Impact of KCNJ11, TCF7L2, SLC30A8, IGF2BP2, PPARG, SLC47A1, STK11, HHEX, KCNQ1, CDKAL1, FTO, CYP2C9, ADIPOQ, CAPN10 Gene Polymorphisms on Risk of Type 2 Diabetes and Therapeutic Response to Sulfonylurea and Metformin Therapy.

Mol. Cytogenet. 7(Suppl 1):P100 (Impact factor 2.66)

 Ravishankara, Shreeshakala, Padmalatha Rai S, Kerthana Prasad, Deepthi C, Gopinath PM, Satyamoorthy K. 2014

Development of allele specific hybridization assay and computer aided tool for detection of genetic variations in folate pathway genes.

Mol. Cytogenet. 7(Suppl 1):P19. [Impact Factor: 2.66]



15. Muthusamy A, Jayabalan N. 2014

Radiation and chemical mutagen induced somaclonal variations through in vitro organogenesis of cotton (Gossypium hirsutum L.)

Int. J Rad. Biol. 90(12):1229-1239

16. Kabekkodu SP, Bhat S, Radhakrishnan R, Aithal A, Mascarenhas R, Pandey D, Rai L, Kushtagi P, Gopinath PM, Satyamoorthy K. 2014

DNA Promoter Methylation Dependent Transcription of Double C2 Like Domain Beta (DOC2B) Gene Regulates Tumor Growth in Human Cervical Cancer.

J Biol Chem. 289:10637-10649.

17. Bidchol AM, Dalal A, Shah H, S S, Nampoothiri S, Kabra M, Gupta N, Danda S, Gowrishankar K, Phadke SR, Kapoor S, Kamate M, Verma IC, Puri RD, Sankar VH, Devi AR, Patil SJ, Ranganath P, Jain SJ, Agarwal M, Singh A, Mishra P, Tamhankar PM, Gopinath PM, Nagarajaram HA, Satyamoorthy K, Girisha KM. 2014

GALNS mutations in Indian patients with mucopolysaccharidosis IVA.

Am J Med Genet A. 164: 2793-2801.

18. Rotti H, Raval R, Anchan S, Bellampalli R, Bhale S, Bhardwaj R, Bhat BK, Dedge AP, Dhumal VR, Gangadharan GG, Girijakumari TK, Gopinath PM, Govindaraj P, Halder S, Joshi KS, Kabekkodu SP, Kamath A, Kondaiah P, Kukreja H, Kumar KLR, Nair S, Nair SNV, Nayak J, Prasanna BV, Rashmishree M, Sharanprasad K, Thangaraj K, Patwardhan B, Satyamoorthy K, Valiathan MVS. 2014

Determinants of Prakriti, the Human Constitution Types of Indian Traditional Medicine and its Correlation with Contemporary Science.

JAIM. 5:167-175

19. Francis A, Sarkar S, Pooja S, Surekha D, Rao DR, Rao L, Ramachandra L, Vishnupriya S, Satyamoorthy K, Thangaraj K, Rajender S. 2014

SRD5A2 gene polymorphisms affect the risk of breast cancer.

Breast. 23:137-141 doi: 10.1016/j.breast.2013.11.010

20. Chakrabarty S, D'Souza RR, Kabekkodu SP, Gopinath PM, Rossignol R, Satyamoorthy K. 2014

Upregulation of TFAM and mitochondria copy number in human lymphoblastoid cells.

Mitochondrion. 15: 52-58

21. Rai PS, Pai GC, Alvares JF, Bellampalli R, Gopinath PM, Satyamoorthy K. 2014

Intraindividual somatic variations in MTHFR gene polymorphisms in relation to colon cancer.



Pharmacogenomics.15: 349–359

22. Rotti H, Guruprasad KP, Nayak J, Kabekkodu SP, Kukreja H, Mallya S, Nayak J, Bharadwaj RC, Gangadharan GG, Prasanna BV, Raval R, Kamath A, Gopinath PM, Kondaiah P, Satyamoorthy K. 2014

Immunophenotyping of Normal Individuals Classified on the Basis of Human Dosha Prakriti.

JAIM. 5: 43-49.

23. Chakrabarty S, D'Souza RR, Kabekkodu SP, Gopinath PM, Rossignol R, Satyamoorthy K. 2014

Upregulation of TFAM and mitochondria copy number in lymphoblastoid cell lines.

Mitochondrion, 15:52-58

24. Kabekkodu SP, Bhat S, Mascarenhas R, Mallya S, Bhat M, Pandey D, Kushtagi P, Thangaraj K, Gopinath PM, Satyamoorthy K. 2014

Mitochondrial DNA variation analysis in cervical cancer. Mitochondrion. 16:73-82.

25. Satyamoorthy K, Bhat S, Rotti H, Shamaprasada K. 2014

Epigenetic regulation of double c2 like domain beta (Doc2b) in cervical cancer.

Mol. Cytogenet. 7(Suppl 1):I22.

26. Manimekalai R, Anil Kumar NC, Roshna OM, Satyamoorthy K. 2014

Isolation and comparative analysis of PotC Gene of ABC-Transport System from Coconut Root Wilt, Sugarcane Grassy Shoot (16srxi Group) Phytoplasmas.

Journal of Plant Pathology 96:(doi:10.4454/JPP.V96I1.003). Impact Factor: 2.729.

27. Radhakrishnan R, Upadhya R, Aithal A, Shama Prasada, Bhat S, Jayaprakash C, Ray S, Prasad KC, Kamath A, Rasmussen LJ, Satyamoorthy K. 2014

DNA Methylation Changes in Clinical Stages of Oral Cancer Progression and Correlation with DOC2B Promoter Hypermethylation.

Mol. Cancer Biol. 2168-0922

28. Narayanan SN, Kumar RS, Kedage V, Nalini K, Nayak S, Bhat PG. 2014

Evaluation of oxidant stress and antioxidant defense in discrete brain regions of rats exposed to 900 MHz radiations.

Bratislava Medical Journal 115:260-266. Impact Factor: 0.472

29. Kaushik NK, Murali TS, Sahal D, Suryanarayanan TS. 2014

A search for antiplasmodial metabolites among fungal endophytes of terrestrial and marine plants of southern India.



Acta Parasitologica 59(4), 745-757. DOI: 10.2478/s11686-014-0307-2

30. Murali TS, Kavitha S, Spoorthi J, Bhat DV, Prasad ASB, Upton Z, Ramachandra L, Raviraj Acharya, Satyamoorthy K. 2014

Characteristics of microbial drug resistance and its correlates in chronic diabetic foot ulcer infections.

J Med. Microbiol. 63:1377-1385

31. Govinda Rajulu MB, Lai LB, Murali TS, Venkat Gopalan, Suryanarayanan TS. 2014 Several fungi from fire-prone forests of southern India can utilize furaldehydes.

Mycol. Prog. 13: 1049-1056. DOI: 10.1007/s11557-014-0992-0.

32. Vidhu SB, Pai D, Sheikh T, Muthusamy A, Satyamoorthy K. 2014

Low intra-specific Diversity Imply Genetic Drift in Gloriosa superba L. (Liliaceae) in Konkan Coast of Karnataka, India.

Annals of Plant Sciences 2:524-531

NATIONAL: 3

1. Muthusamy A, KS Vidya, PK Pratibha, MR Rao, SB Vidhu, KP Guruprasad, U Raghavendra, PM Gopinath, K Satyamoorthy. 2014

Establishment of an in vitro plantlet regeneration protocols for unique varieties of brinjal (Solanum melongena L.) var. Mattu Gulla and Perampalli Gulla.

Ind. J Exp. Biol. 52(1): 80-88.

2. Girisha KM, Bidchol AM, Sarpangala MK, Satyamoorthy K. 2014

A Novel Frameshift Mutation in TWIST2 Gene Causing Setleis Syndrome.

Indian J Pediatr. 81:302-304. Impact factor: 0.715

3. Muthusamy A, Vidya KS, Pratibha PK, Radhakrishna Rao M, Vidhu SB, Guruprasad KP, Raghavendra U, Gopinath PM, Satyamoorthy K. 2014

Establishment of an in vitro plantlet regeneration protocol for unique varieties of brinjal (Solanum melongena L.) var. Mattu Gulla and Perampalli Gulla.

Indian Journal of Experimental Biology 52:80-88. Impact Factor:1.19

- Monographs Nil
- Chapters in Books 6
- 1. Kamath SD, Mahato KK. 2012. Pulsed laser induced simultaneous fluorescence and photoacoustic spectroscopic studies of flavin adenine dinucleotide (FAD) in water.



- Electronic design and signal processing, Narosa Publishing House Pvt. Ltd., New Delhi, ISBN 978-81-8487-160-9.
- 2. Roopa Nayak, Organic Chemistry, "Manipal Laboratory manual for Biotechnologists" Manipal University Press, pp. 41-69, 2012
- 3. Roopa Nayak, Physical Chemistry, "Manipal Laboratory manual for Biotechnologists" Manipal University Press, pp.70-95, 2012
- 4. Roopa Nayak, Inorganic Chemistry, "Manipal Laboratory manual for Biotechnologists" Manipal University Press, pp.96-121, 2012
- 5. Vidhu Sankar babu, Plant Tissue Culture, "Manipal Laboratory manual for Biotechnologists" Manipal university Press, pp.239-262, 2012
- TG Vasudevan, K Satyamoorthy, Molecular Biology, "Manipal Laboratory Manual for Biotechnologists", Manipal University Press, pp.122-209, 2012

* Edited Books – 1

1. Herman D'souza, Shyama Prasad Sajankila, K Satyamoorthy, 2012, Manipal Laboratory Manual for Biotechnologists, ISBN: 978-93-82460-02-2, Manipal University Press.

* Books with ISBN with details of publishers – 1

1. Herman D'souza, Shyama Prasad Sajankila, K Satyamoorthy, 2012, Manipal Laboratory Manual for Biotechnologists, ISBN: 978-93-82460-02-2, Manipal University Press.

Conference Presentations

2012 – International (20)

Papers/Talks

- Samatha Bhat, Shama Prasada K, Padmalatha S Rai, Gopinath PM, Satyamoorthy K
 "Double C2-Like Domains, Beta (DOC2B) is Down Regulated through Promoter
 Hypermethylation and Acts as a Tumor Suppressor in Cervical Carcinoma"
 10th Asia Pacific Conference on Human Genetics, Kuala Lumpur, Malaysia, Dec 5-8
 2012
- Shama Prasada K, Samatha Bhat, Gopinath PM, Satyamoorthy K
 "Analysis of DNA Methylome Profile and its Clinical Utility in Management of
 Cervical Cancer"
 10th Asia Pacific Conference on Human Genetics" Kuala Lumpur, Malaysia, Dec 5-8,
 2012
- 3. Bharath Prasad, Vandana Singh, Srujan C, Kavitha P, Spoorthi J, Deepika VB, Acharya RV, Ramachandra L, Joshi MB, Vasudevan TG, Murali TS, Satyamoorthy K "Expression of Cytokines in Diabetic and Non-Diabetic Wounds: Implications in



- Wound Healing"
- 3rd World Congress on Diabetes & Metabolism, Hyderabad, Sep 24-26, 2012
- 4. Shyama Prasad Sajankila, K Ambika, B Nageshwar Rao, Rashtri Gosh, BS Satish Rao "A study on the toxicity of Copper Nanoparticles (CuNP) in mouse system" NanoSciTech 2012, Punjab University, Chandigarh, Feb 16-18, 2012
- 5. Satish Rao BS
 - "Prediction of radiotherapy induced normal tissue acute toxicity: Molecular significance of DNA double strand breaks and its repair"
 - The International Conference on Radiation Biology (ICRB 2012) ACTREC, Tata Memorial Centre, Navi Mumbai, Nov 22-24, 2012
- 6. Kamalesh DM, HV Goutham, BM Vadhiraja, DJ Fernandes, K Sharan, KP Guruprasad, K Satyamoorthy, BS Satish Rao
 - "Cellular Radiosensitivity and its Assosiation with Clinical Radiosensitivity In Breast Cancer Subjects"
 - International Conference on Radiation Biology (ICRB 2012) ACTREC, Tata Memorial Centre, Navi Mumbai, Nov 22-24, 2012
- 7. Satish Rao BS, B Kiran Aithal, MR Sunil Kumar, N Udupa
 - "Anticancer, radiosensitizing potential of plumbagin and juglone as free and microsphere, liposome based targeted drug delivery platforms"
 - BNERC and IJAA Joint International Symposium on Advanced Science and Technology, Toyo University, Japan, Dec 8, 2012

Posters

- 8. Saadi AV, Geetha K, Girisha KM, Gopinath PM, K Satyamoorthy
 - "Diagnosis of Dystrophinopathies at Manipal by Multiplex Polymerase Chain Reaction for Deletions in Dystrophin Gene"
 - INDO-US Conference on Disorders of Developing Brain, Manipal University, Manipal, Oct 27-28 2012
- 9. SK Tiwari, S Bhat, KK Mahato
 - "MEMS Design Tool in Teaching Orientation Dependent Double Sided Silicon Etching"
 - 22nd International Conference on Chemistry Education & 11th European Conference on Research in Chemical Education, Rome, Italy Jul 15-20 2012
- 10. A Petuskaite D, Pfaff A Frachet, MB Joshi, M Philippova, K Maslova, E Kyriakakis, P Erne, T Resink
 - "Upregulation of T-cad in smooth muscle cells: consequences for vascular function" AGLA & Vascular Biology Meeting, Bern, Switzerland, Dec 2012
- 11. Kavitha P, Murali TS, Satyamoorthy K
 - "Genotyping of Staphylococcus aureus isolates from diabetic foot ulcer".
 - 3rd World Congress on Diabetes & Metabolism, Hyderabad, Sep 24-26 2012
- 12. Kamalesh DM, Goutham HV, Vadhiraja BM, Guruprasad KP, Satyamoorthy K, Satish



Rao BS

"Evaluating the predictive potential of DSB repair kinetics in radiotherapy induced acute skin reactions"

International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012), Rajasthan University, Jaipur, Jan 21-22, 2012

13. Goutham HV, Kamalesh DM, Vadhiraja BM, Guruprasad KP, Satyamoorthy K, Satish Rao BS

"Association between polymorphisms in genes of NHEJ pathway and acute reactions of radiotherapy in head and neck cancer patients"

International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012), Rajasthan University, Jaipur, Jan 21-22, 2012

14. Archana PR, Nageshwar Rao B, Satish Rao BS

"Role of Thymol in curtailing radiation injury: an in vitro study"

International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012), Rajasthan University, Jaipur, Jan 21-22, 2012

15. Satish Rao BS

"Anticancer, radiosensitizing effect of Plumbagin and Juglone as free and microsphere, liposome based targeted drug delivery platforms"

International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012), Rajasthan University, Jaipur, Jan 21-22, 2012

16. Satish Rao BS

"Protective effect of zingerone, a dietary compound against radiation induced damage" International Conference on Emerging frontiers and challenges in radiation Biology" Govt. Dungar College, Bikaner, Jan 24-25, 2012

17. Shubhankar Das, BS Satish Rao

"Radiation antagonistic effects of hydroalcoholic extract of Saracaindica - An in vitro study using Chinese hamster Lung fibroblast (V79) cell"

International Symposium on Emerging trends in Free Radicals, Antioxidants and Nutraceuticals on Health, Disease and Radiation Biology, Kolkata, Jan12-14, 2012

18. Satish Rao BS

"Cytoprotective Effect of Mangiferin Against Methylmercury Induced Cellular Damage in IMR-32, Human Neuroblastoma Cells by the Inhibition of Oxidative Stress"

International Symposium on Emerging Trends in Free Radicals, Antioxidants and Nutraceuticals on Health, Disease and Radiation Biology, Kolkata, Jan 12-14, 2012

19. Sekhar MR

"Screening for submicroscopic, subtelomeric chromosomal aberrations in 150 children with developmental delay and intellectual disabilities using MLPA"

38th Annual Conference ISHG, BHU, Varanasi, Dec 9-11, 2012

20. Phani MN, Padmalatha Rai S, Prabha Adhikari, Shivashankara, Gopinath PM and Satyamoorthy K



"Association of genetic variants in *KCNJ11*, *TCF7L2*, *SLC30A8* and *IGF2BP2* genes for type 2 diabetes and response to Sulfonylurea and Metformin in South Indians" 3rd World Congress on Diabetes and Metabolism, Hyderabad, Sep 24-26, 2012

2012 - National (3)

Papers/Talks

- 1. Muthusamy A, Pratibha PK, Prabhu V, Mahato KK, Vidhu SB, Radhakrishna Rao M, Gopinath PM, Satyamoorthy K.
 - "Stimulatory effect of laser irradiation on in vitro morphogenesis of brinjal (*Solanum melongena* L.) var. Mattu Gulla a unique variety of Udupi, Karnataka" National Conference on Integrative Plant Biology and Agribiotechnology, Bangalore, Feb 29, 2012
- 2. Vidhu Sankar Babu, Shruti Kumar, Sunaina Banerjee, TS Murali, TG Vasudevan, Annamalai Muthusamy, Padmalatha Rai S, K Satyamoorthy
 - "Relative Assessment of Photosynthetic Efficiency in Sugarcane the C4 crop to Rice (C3) and Aloe (CAM) using LICOR XT 6400".
 - National seminar on Biodiversity and Sustainability, Kuvempu University, Shimoga, Mar 5-6, 2012

Poster

- 3. Murali TS, Kavitha P, Spoorthi J, Bharath Prasad K, Srujan C, Deepika VB, Satyamoorthy K.
 - "Host factors and antibiotic resistance in bacterial communities from Diabetic Foot Ulcers"
 - 2nd Annual Conference of Clinical Infectious Disease Society, Chennai, Aug 25-26, 2012

2013 - International (27)

Papers/Talks

- 1. Satyamoorthy K
 - "TFAM: a regulator of mitochondria maintenance and function"
 - 3rd Annual conference of the Society of Mitochondrial Research and Medicine entitled "Mitochondria in Health and Disease" NIMHANS, Bangalore during December 19-20, 2013 and also chaired a session.
- 2. Satyamoorthy K
 - "Epigenetic changes due to DNA methylation in human tumors"
 - 82nd Annual Meeting of Society of Biological Chemists (India) and International Symposium on Genomes: Mechanism and Function organized by School of Life Sciences, University of Hyderabad, Hyderabad during December 2-5, 2013.



3. Satyamoorthy K

"Gene delivery vehicles"

Faculty Development Programme on "Pharmaceutical Regulations in Developing Countries", "Nano-based Drug Delivery Systems: A New Era in Pharmaceutical Research", "Entrepreneurship Development" & "Industry Institute Interaction Programme" organized by Department of Pharmacy Management, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal on October 15, 2013.

4. Satyamoorthy K

"Mitochondrial Genome and Function in Human Lymphoblastoid Cells" Bibliotheque Universitaire, Joseph Fourier University, France on September 5, 2013.

5. Satyamoorthy K

"Epigenetic Changes due to DNA Methylation in Human Epithelial Tumors" Amphitheatre Boucherle of Health Campus, Joseph Fourier University, France on September 4, 2013.

6. Satyamoorthy K

"International collaborations to enhance education, research and training; and for the students to gear up for being 'world citizens' "

Graduating Ceremony of outgoing Students at Joseph Fourier University, France on August 30, 2013

7. Satyamoorthy K

"Model-Based Reasoning in Science and Medicine in India"

Summer School 2013 – Interactive Training Initiative organized by Archamps Technopole, France on August 27, 2013.

8. Satyamoorthy K

"Epigenetic Changes due to DNA Methylation in Human Epithelial Tumors" International Conference on Biotechnology for Innovative Applications organized by Amrita Vishwa Vidyapeetham University, Kollam, Kerala during August 10-14, 2013.

9. Satyamoorthy K

"DNA Methylation Mechanisms and Relevance of Biosignatures to Human Cancers with Special Relevance to Cervical Cancer Progression"

Flinders University, Adelaide, Australia on April 10, 2013.

10. Satyamoorthy K

"Microbial Communities from Diabetic Foot Ulcers and Interactions with the Host Factors"

9th Indo-Australian Biotechnology Conference 'Global health priorities in infection and immunity' at Burnet Institute, Melbourne, Australia and chaired a session during April 7-9, 2013.

11. Satyamoorthy K

"Confounding Factors for Personalised Medicine"

EU Science: Global Challenges Global Collaboration Conference at European Parliament, Brussels, during March 4-7, 2013.



12. Satyamoorthy K

"DNA Methylation, Mechanisms and Relevance of Biosignatures in Cervical Cancer Progression"

32nd Convention of Indian Association for Cancer Research Emerging Trends in Cancer research: Road to prevention & cure and International Symposium on Infection and Cancer organized by Dr. BR Ambedkar Center for Biomedical Research (ACBR), University of Delhi during February 13-16, 2013.

13. Satyamoorthy K

"Architecture of Epigenome in Human DNA and its implication in Health" Symposium and Workshop on Epigenomics and Cancer Informatics organized by Manipal Life Sciences Centre, Manipal University, Manipal during January 10-12, 2013.

14. Joshi MB

"New Insights into Neutrophil (Dys)function in Diabetes"

Biohealth Computing (BioHC), Joseph Fourier University, Grenoble. 24 August – 7

September, 2013.

15. Shama Prasada K

"Example of Cancer Epigenome Analysis- Manipal Experience"

Symposium and Workshop on Epigeneome and Cancer Informatics, Manipal University, Manipal during 10-12 January 2013.

16. Shama Prasada K

"Microarray Platforms and Types for DNA Methylation and miRNA profiling" Symposium and Workshop on Epigenome and Cancer Informatics, Manipal University, Manipal during 10-12 January 2013

17. Manjunath B Joshi, Apoorva Lad, Alevoor S Bharath Prasad, Aswath Balakrishnan, Lingadakai Ramachandra, Kapaettu Satyamoorthy

"Inefficient NETosis: Cause for Predisposition to Recurrent Infections in Type 2 Diabetes"

International Conference on Biotechnology for Innovative Applications, Amrita University during 10-14 August, 2013.

18. Sanjay ER, Annapoorna S, Muthusamy A, Rupal G, Poornima P, Shashikala T, Vidhu SB, Radhakrishna Rao M and Satyamoorthy K

"Organogenetic responses of medicinally valuable Phyllanthus species in vitro for the production of somaclonal variants"

5th International Conference on Medicinal Plants and Herbal Products (ICMPHP), organized by Manipal College of Pharmaceutical Sciences, Manipal University, Manipal during 25-27 January 2013.

19. Aswath Balakrishnan, Kapaettu Satyamoorthy, Manjunath B Joshi

"Inflammation Induced Epigenetic Changes in Endothelial Cells: Role in Vascular Insulin Resistance"

International Conference on Biotechnology for Innovative Applications, at Amrita



- University during 10-14 August, 2013
- 20. Vijendra Prabhu, Edward Mark Fernandez, BS Satish Rao and KK Mahato "Non-invasive, in vivo fluorescence technique as an objective tool for monitoring wound healing following low level laser therapy"

SPIE BOIS 2013, held at The Moscone Centre, San Francisco, California, USA, 2013

Posters

- 21. Vasudeep Shetty, Vidhu Sankar Babu, Abitha Thomas, Padmalatha Rai S, Muthusamy Annamalai and Satyamoorthy Kapaettu
 - "Protoplast Isolation and Fusion An unique platform for identifying elite micro colonies and atypical hybrid micro shoot initiation in Dendrobium"
 - Amrita Bio Quest 2013 International conference on biotechnology for innovative applications, Amrita School of Biotechnology, Amrita University, Kollam during 10-14 August, 2013
- 22. Poornima P, Rupal G, Sanjay ER, Nagendra P, Shashikala T, Vidhu SB, Muthusamy A, Satyamoorthy K
 - "In vitro organogenesis and induction of variability in Withania somnifera L. for improved withanolides a pharmacologically active biomolecule"
 - International Conference on Biotechnology for Innovative Applications, Amirta School of Biotechnology, Amrita University, Kollam during 10-14 August 2013
- 23. Vidhu SB, Vasudeep S, Abitha T, Padmalatha Rai S, Muthusamy A, Satyamoorthy K "A novel and rapid method of inducing protocorm like bodies for micropropagating *Dendrobium ovatum*, for its conservation and bioproduction of dendrophenol" International Conference on Biotechnology for Innovative Applications, Amirta School of Biotechnology, Amirta University, Kollam during 10-14 August 2013
- 24. Venu Seenappa, Shubhi Sinha, Bidyadhar Das, Manjunath B Joshi, Kapaettu Satyamoorthy
 - "Influence of Single Nucleotide Polymorphisms on Transcriptional Regulation of PEPCK Isoforms: Role in Tumor Cells"
 - International Conference on Biotechnology for Innovative Applications" at Amrita BioQuest, Amritapuri during 10-14 August, 2013
- 25. Vidhu Sankar Babu, Vasudeep Shetty, Abitha Thomas, Padmalatha Rai, Annamalai Muthusamy and Satyamoorthy Kapaettu
 - "A Novel and Rapid method of inducing Protocorm like Bodies for micropropagating *Dendrobium ovatum*, for its conservation and bioproduction of Dendrophenol"
 - Amrita Bioquest International Conference at Amritapuri Campus, Kollam during August 10-14, 2013
- 26. Poornima Poojary, Rupal Gogia, Nagendra P, Sanjay ER, Shashikala Tantry, Vidhu Sankar Babu and Annamalai Muthusamy
 - "In vitro organogenesis and induction of variability in Withania somnifera L. for improved withanolides a pharmacologically active biomolecule"



Amrita Bioquest International Conference at Amritapuri Campus, Kollam from August 10-14, 2013

27. Murali TS, Kavitha P, Spoorthi J, Deepika VB, Bharath Prasad AS, Ramachandra L, Raviraj Acharya, Satyamoorthy K

"Aminoglycoside resistance in Enterococci isolated from Diabetic Foot Ulcers" International Conference on Biotechnology for Innovative Applications, Amrita Bio Quest 2013, Cochin during August 10-14, 2013.

2013 - National (28)

Papers/Talks

1. Satyamoorthy K

"Epigenetics and DNA methylation during health and disease"

National Symposium on "Cancer Biology" organized by Department of Studies in Biochemistry, University of Mysore, Mysore during November 29-30, 2013.

2. Satyamoorthy K

"Applying for research grants – Key considerations"

Pre-Colloquium worshop on Publishing in Biomedical Journals and developing a worksite wellness program organized by School of Allied Health Sciences, Manipal University, Manipal on September 25, 2013.

3. Satyamoorthy K

Delivered lecture for the workshop on "Extramural Research Funding: Opportunists and Challenges" organized by Yenepoya University, Mangalore on May 29, 2013.

4. Satyamoorthy K

"Epigenomic modulation by nutrients for better health"

Brain Storming session on Nutriepigenomics sponsored by Department of Biotechnology, New Delhi at CFTRI, Mysore on June 7, 2013.

5. Satyamoorthy K

"Personalized Medicine"

CME and Workshop on "Onco-Genopath" organized by Department of Pathology and Department of Medical Oncology, KMC, Mangalore and chaired a session on May 11, 2013.

6. Satyamoorthy K

"Tips for Research Collaboration and Research Funding"

Seminar for Ph.D. Guides organized by MCOPS, Manipal University, Manipal on April 27, 2013.

7. Delivered lecture in half-day Seminar programme for Research Grants and Research Ethics at KMC, Mangalore on April 19, 2013. (Dr. K Satyamoorthy)

8. Vidhu Sankar Babu

Resource person for a training program on DST-DBT Fast Track Funding for Faculty of Manipal University, organized by Directorate of Research (Health Sciences/Technical) - at MCOPS Manipal University, Karnataka on 22 January, 2013.



9. Joshi MB

"Angiogenesis associated proteins: potential therapeutic targets in cancer" National conference on recent discoveries in protein science, Organized by Karnataka State Higher Education Council, Bangalore on 31 January 2013

10. Muthusamy A

"Plant cell, tissue and organ culture: advances in biotechnological application" Department of Biotechnology Sponsored Popular Lecture organized by PG & Research Department of Zoology, Rajah Serfoji Government College (Autonomous), Thanjavur on 31 January 2013.

11. Vidhu Sankar Babu

Resource person for a training program on DST-Fast Track Funding for Faculty of Manipal University, by Directorate of Research (Health Sciences/Technical) - at MIT Library Auditorium, Manipal on 15 March 2013

12. Satish Rao BS

"Best practices for writing scientific Manuscripts"

AICTE sponsored Quality Improvement Program at Manipal College of Pharmaceutics Sciences, Manipal University, Manipal during 3 June-13 July 2013

13. Muthusamy A

"Induction of genetic variability for improved agronomical characters and disease resistance in crop plants"

Summer School and AICTE sponsored quality improvement program, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal, Karnataka on 26 June, 2013.

14. Vidhu Sankar Babu

Resource person for a training program in Summer School for Research Scholars organized by, Directorate of Research, Manipal University, Manipal from 3 June to 2 July, 2013, Manipal University, on "New Techniques in Plant Tissue Culture" at MCOPS, Manipal University on 29 June, 2013.

15. Herman S D'Souza

"Effects of lead poisoning in general population and lead based workers",

CME program held at Department of Biochemistry, Mandya Institute of Medical Sciences, Mandya on 24 August, 2013.

16. Vasudevan TG

"Gene Cloning"

National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics held at JIPMER, Puducherry during August 26-31, 2013.

17. Satish Rao BS

"Undergoing the Single Cells-Introduction to the basics of Flow Cytometric Technology and its applications"

KSTA Special Lecture Series at Department of Applied Zoology, Mangalore University, Mangalore on 28 September, 2013.



18. Satish Rao BS

"Radio modifiers – Preclinical Studies and clinical Significance"

KSTA Special Lecture Series at Department of Applied Zoology, Mangalore University, Mangalore on 28 September 2013.

19. Satish Rao BS

"Anticancer radiosensitizing effect of plumbagin & Juglone as free & microsphere, liposome based targeted drug delivery systems"

AITC Sponsored Faculty Development Program at Manipal College of Pharmaceuticals, Manipal University, Manipal during 14-26 October, 2013.

20. Joshi MB

"Consequences of Pro-inflammatory conditions in metabolic syndrome" 2nd Annual Meeting of Society of Biological Chemists-India, 26 October, 2013, Manipal University, Manipal

21. Murali TS

"Fungal endophytes: A perspective on their chemical diversity" 2nd Annual Meeting of Society of Biological Chemists-India, 26 October, 2013, Manipal University, Manipal

22. Phani MN

"Genetic Variants: Key to Type 2 Diabetes Predisposition and Personalized Medicine" Annual Meeting of Society of Biological Chemists (India) Coastal Karnataka Chapter, organized by School of Life Sciences, Manipal University, Manipal on October 26, 2013

23. Chakrabarty S

"Construction of human BAC library: Application in cytogenetic disorders" Annual meeting of Society of Biological Chemists (India) Coastal Karnataka Chapter, organized by School of Life Sciences, Manipal University, Manipal on October 26, 2013

24. Vidhu Sankar Babu, Vidya KS, Raghavendra Upadhya, Satish Rao BS and Kapaettu Satyamoorthy

"Time reliant functional assays substantiate chemopreventive & radioprotective prospective of *Morinda citrifolia*.L (Noni) fruit extract"

Eighth National Symposium "Noni for Sustainable Wellness" organised by International Society for Noni Science and World Noni Research Foundation held at GKVK Campus, University of Agricultural Sciences, Bangalore, Karnataka during 29-30 October, 2013 (**Best Oral Presentation Award**)

25. Murali TS, Spoorthi J, Deepika VB, Kavitha P, Bharath Prasad K, Ramachandra L, Raviraj Acharya, Satyamoorthy K

"Fungal Communities from Diabetic Foot Ulcers"

National seminar on Current Perspectives of Fungi in Health Care and Environment, Bangalore University, Bangalore during 13-14 March, 2013.

Posters



- 26. Vijendra Prabhu, Edward Mark Fernandez, BS Satish Rao and KK Mahato
 - "In vivo autofluorescence technique to monitor the wound healing progression-A preclinical study"
 - DAE-BRNS National Laser Symposium (NLS-21) held at Bhabha Atomic Research Centre (BARC), Mumbai during 6-9 February, 2013.
- 27. Mallika Priya, BS Satish Rao and KK Mahato
 - "Development and optimization of pulsed laser induced photoacoustic spectroscopy setup for clinical applications"
 - DAE-BRNS National Laser Symposium (NLS-21) held at Bhabha Atomic Research Centre (BARC), Mumbai during 6-9 February, 2013.
- 28. Gupta H, Saadi AV, Hande MH. D'Souza S, Gopinath PM, Satyamoorthy K "Variants of ADORA2A and GRK5 Genes modulate Susceptibility of Malaria in a South Indian Population"
 - 6th Annual KSTA Conference: Science and Technology for Promoting Innovative Research and Development held at Christ University, Bangalore, 20-21 December, 2013

2014 – International (14)

Papers/Talks

- 1. Mallika Priya, Chandra S, Satish Rao BS, Ray S, Shetty P, Mathew S, Mahato KK "Photoacoustic spectroscopy based evaluation of breast cancer condition, Diagnosis and Treatment of Diseases in the Breast and Reproductive System"
 - 'SPIE Photonics West BiOS' held during February7-12, 2015 San Francisco, California, United States.
- 2. Joshi MB, Venu S, K. Satyamoorthy.
 - Context dependent regulation of PEPCK isoform genes by RNA stability and DNA promoter methylation in human cells.
 - Mitochondrial Biology: from Molecules to Disease and 4th Annual Conference of the Society for Mitochondrial Research and Medicine (SMRM), Manipal. December 8-9, 2014
- 3. Phani NM, Bellampalli R, Adhikari P, Nagri SK, Sc DS, Gopinath PM, Satyamoorthy K, Padmalatha Rai S
 - Population specific risk association of potassium channel gene (KCNJ11) polymorphisms for type 2 diabetes.
 - International Conference of Human Genetics and 39th Annual conference of Indian Society of Human Genetics (ISHG) Ahmedabad. January 22–25, 2014

Posters

4. Joshi MB, Pai S, Kotambail A, Sharma PSVN, Satyamoorthy K. "Investigation of Plasma Metabolomics of Bipolar Disorder Patients"



- Indo-US symposium on Mass spectrometry based metabolomics in disease biology, Trivandrum. January 2014.
- 5. Balakrishnan A, Satyamoorthy K, Joshi MB.
 - "Role of IL-6/JAK/STAT pathway in inducing vascular insulin resistance" International Conference on Human Genetics and 39th Annual Meeting of the Indian Society of Human Genetics (ISHG), Ahmedabad. January 23-25, 2014.
- Venu S, Sinha S, Das B, Joshi MB, Satyamoorthy K.
 "Genetic and Epigenetic Regulation of Human PEPCK Isoforms"
 International Conference on Human Genetics and 39th Annual Meeting of the Indian Society of Human Genetics (ISHG), Ahmedabad. January 23-25, 2014
- 7. Balakrishnan A, Satyamoorthy K, Joshi MB.

 "Inflammation induced epigenetic changes in endothelial cells: implications in metabolic syndrome"

Joint IUBMB-RCB Advanced School-2014, Gurgaon. November 24-29, 2014.

- 8. Venu S, Joshi MB, Das B, Satyamoorthy K.
 - "Interplay between Phosphoenolpyruvate Carboxykinase isoforms in maintaining glucose homeostasis as a prosurvival effect"
 - Mitochondrial Biology: from Molecules to Disease and 4th Annual Conference of the Society for Mitochondrial Research and Medicine (SMRM), Manipal. December 8-9, 2014.
- 9. Ravishankara, Shreeshakala, Padmalatha Rai S, Gopinath PM, Satyamoorthy K. "Modulation of 5-Fluorouracil cytotoxicity due to intracellular folate deficiency under the influence of folate metabolism gene polymorphisms"
 - 10th Indo-Australian Conference on Biotechnology-Epithelial Development & Disease-New Frontiers & Therapies held at Manipal. April 11-13, 2014
- 10. Ravishankara, Shreeshakala, Padmalatha Rai S, Keerthana Prasad, Deepthi C, Gopinath PM, Satyamoorthy K
 - "Development of allele specific hybridization assay and computer aided tool for detection of genetic variations in folate pathway genes"
 - International Conference on Human Genetics and 39th Annual Meeting of Indian Society of Human Genetics held at Ahmadabad, India. January 22-25, 2014
- 11. Phani NM, Bellampalli R, Adhikari P, Nagri SK, D'Souza S, Gopinath PM, Satyamoorthy K, Padmalatha Rai S
 - "Impact of KCNJ11, TCF7L2, SLC30A8, IGF2BP2, PPARG, SLC47A1, STK11, HHEX, KCNQ1, CDKAL1, FTO, CYP2C9, ADIPOQ, CAPN10 Gene Polymorphisms on Risk of Type 2 Diabetes and Therapeutic Response to Sulfonylurea and Metformin Therapy"
 - International conference of human genetics and 39th Annual conference of Indian Society of Human Genetics (ISHG), Ahmedabad January 22–25, 2014 (**Best poster award**)



12. Rupal G, Sanjay ER, Prabhu V, Mahato KK, Nagendra P, Poornima P, Shashikala T, Vidhu SB, Muthusamy A. 2014.

"In vivo and in vitro responses of brinjal (*Solanum melongena* L.) var. Mattu Gulla to He-Ne laser"

International Symposium-Trends in Plant Science Research, Centenary Celebrations, Department of Botany, University of Calcutta, February 15-16, 2014. P. 5

13. Mallya S. et al. 2014.

"Scavenging Small RNA-Seq Data to Predict Mitochondrial Encoded miRNA" International Conference on Computational Methods in Engineering and Health Sciences (ICCMEH-2014) held at Manipal University, Manipal.

14. Smriti S, Saadi A, Ramamurthy B, Shukla A, Satyamoorthy K, Girisha KM "Evaluation of multiplex ligation dependent probe amplification (MLPA) for diagnosis and carrier detection in families with Dystrophinopathies" Indo-US Symposium on Genomic Insights into Human Morphogenesis: Prenatal, Postnatal and Molecular Dysmorphology. November 7-9, 2014; BM Birla Science Centre, Hyderabad India.

2014 - National: 14

Papers

1. **Phani NM**, Bellampalli R, Adhikari P, Nagri SK, D'Souza S, Gopinath PM, Satyamoorthy K, Padmalatha Rai S.

Genetic risk assessment of *KCNJ11* and *PPARG* gene polymorphisms on type 2 diabetes in South-Asian population: A case-control and Meta-Analysis approach.

Manipal University research colloquium at Manipal University on April 11-12, 2014

2. Poornima P, Nitika L, **Muthusamy A**, Shama Prasada K, Sanjay ER, Ravishankara B, Shashikala T, Vidhu SB, Satyamoorthy K.

Impact of 5-azacytidine on *in vitro* seed germination, growth and DNA Methylation patterns of Ashwagandha [Withania somnifera (L.) Dunal]

National Conference on Recent Trends in Bioprospecting of Plants, Department of Plant Science, Bharathidasan University, Tamil Nadu on March 28-29, 2014.

Posters

3. Vijendra Prabhu, Satish Rao BS, Mahato KK

Action of Red Laser Light Irradiation on Cellular Parameters in Wounded Human Skin Fibroblasts

DAE-BRNS National Laser Symposium (NLS-22), Department of Atomic and Molecular Physics, MIT Manipal, January 8-11, 2014.

4. Vijendra Prabhu, Acharya A, Satish Rao BS, Bharath HR, Mahato KK Laser induced autofluorescence studies of wound granulation tissues from non-healing wounds- A clinical study



- DAE-BRNS National Laser Symposium (NLS-22), Department of Atomic and Molecular Physics, MIT Manipal, January 8-11, 2014.
- 5. Mallika Priya, Satish Rao BS, Mahato KK. Prognostic Potential of Photoacoustic Spectroscopy in Breast Tumor Development. DAE-BRNS National Laser Symposium (NLS-22), Department of Atomic and Molecular Physics, MIT Manipal, January 8-11, 2014.
- 6. Manjunath S, Satish Rao BS, Satyamoorthy K, Mahato KK Understanding the Footsteps of protein unfolding by Laser Induced Autofluorescence. DAE-BRNS National Laser Symposium (NLS-22), Department of Atomic and Molecular Physics, MIT Manipal, January 8-11, 2014.
- 7. Mallika Priya, Satish Rao BS, Ray S, Shetty P, Mathew S, Mahato KK Pulsed laser induced photoacoustic spectroscopy in discriminating normal from breast cancer subject.
 - DAE-BRNS National Laser Symposium (NLS-23) held at Department of Physics, Sri Venkateswara University, Tirupati, December 3-6, 2014.
- 8. Manjunath S, Satish Rao BS, Satyamoorthy K, Mahato KK Autofluorescence Based Protein Detection in SDS-TCEP PAGE. DAE-BRNS National Laser Symposium (NLS-23), Department of Physics, Shri Venkateshwara University, Tirupati, December 3-6, 2014.
- 9. Bharath HR, Prabhu V, Chandra S, Satish Rao BS, Mahato KK. Influence of low power lasers in tissue regeneration of burn injuries in swiss albino mice.
 - DAE-BRNS National Laser Symposium (NLS-23), Department of Physics, Shri Venkateshwara University, Tirupati, December 3-6, 2014.
- 10. Phani NM, Bellampalli R, Adhikari P, Nagri SK, D'Souza S, Gopinath PM, Satyamoorthy K, Padmalatha Rai S Integrated Analysis of Common Genetic Variants Can Determine Significant Risk of Type 2 Diabetes and Therapeutic Response to Metformin and Sulfonylurea Therapy. Joint IUBMB-RCB Advanced School-2014. Diabetes and Metabolic syndrome. Networks, Crosstalks and Intervention. November 24-29, 2014
- 11. Muthusamy A, Sanjay ER, Nagendra P, Poornima P, Rupal G, Shashikala T, Radhakrishna Rao M, Vidhu SB, Satyamoorthy K.
 - Modulation of bioactive compounds in *Phyllanthus* species through *in vitro* culture and somaclonal variations.
 - Manipal Research Colloquium, Directorate of Research (Health Science), Manipal University, Manipal – 576104, Karnataka April 11-12, 2014.
- 12. Poornima P, A Muthusamy, V Prabhu, KK Mahato, Sanjay ER, Nagendra P, Shashikala T, Vidhu SB, Satyamoorthy K.
 - Establishment of protocol for organogenesis and He-Ne laser induced variations in Withania somnifera L. for enhanced bioactive molecules



Manipal Research Colloquium, Directorate of Research (Health Science), Manipal University, Manipal, Karnataka April 11-12, 2014.

13. Murali TS, Hitendra Negi.

Molecular diversity and species delimitation in endophytic Colletotrichum isolates National Conference on Fungal Diversity and Biotechnology for Food and Chemicals. Annamalai University, Chidambaram, Tamil Nadu, Febrauary 27-28, 2014

- 14. Hitendra Negi, Deepika V Bhat, Murali TS, Satyamoorthy K.
 Secretome analysis of fungal endophytes for bioactive potential
 National Conference on Fungal Diversity and Biotechnology for Food and Chemicals.
 Annamalai University, Chidambaram, Tamil Nadu, Febrauary 27-28, 2014
- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.)
- * Citation Index range / average NA
- * SNIP Nil
- * SJR Nil
- * Impact Factor range / average 4
- * **h-index** Nil

23. Details of patents and income generated (2012-14)

| # | Title | Application No. | Status | Date of Filing | Contributors |
|---|--|-----------------|-------------|-------------------|--|
| 1 | Helium-Neon laser irradiation enhances germination of eggplant seeds (Solanum melongena L.) var. Mattu Gulla | 1504/CHE/2012 | Provisional | 16/04/2012 | Muthusamy A, Mahato KK, Satyamoorthy K, Gopinath PM, Radhakrishna Rao M, Vidhu SB, Vijendra Prabhu, Pratibha PK |
| 2 | Highly sensitive method for the detection and control of <i>Plasmodium falciparum</i> in humans | 1263/CHE/2012 | Provisional | 30/03/2012 | Satyamoorthy K, Saadi Abdul Vahab, H Manjunath Hande, Sydney D'Souza, Himanshu Gupta |
| 3 | Autofluorescence based technology for non-invasive collagen detection | 4773/CHE/2012 | Provisional | 15/11/2012 | Mahato KK, Vijendra Prabhu, Satish Rao BS, Subash Chandra, Satyamoorthy K, Pramod Kumar |



| 4 | Highly sensitive method for the detection and control of Plasmodium falciparum and Plasmodium vivax | 2528/CHE/2013 | Complete Filed | 11/06/2013 | Satyamoorthy K, Saadi Abdul Vahab, Vasudevan TG, Shikha Srivatsava, H Manjunath Hande, Sydney D'Souza, Himanshu Gupta |
|---|--|---------------|-------------------|------------|--|
| 5 | Novel sodium channel blocker as an anticancer agent from sea anemone Actinia equina extract | 5283/CHE/2013 | Provisional | 18/11/2013 | Satyamoorthy K, Raghavendra Upadhya, Sneha S Shetty, Indrani Karunasagar, Vasudevan TG |

Income Generated: Nil

24. Areas of consultancy and income generated - Nil

25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad

Dr K Satyamoorthy

- Visited Maastricht University, The Netherlands during November 10 13, 2014.
- Visited Queensland University, Brisbane, Federation University, Melbourne, and Flinders University, Adelaide, Australia during October 11-20, 2014.
- Visited Archamps Technoploe, Joseph Fourier University, France during August 27 -September 08, 2013.
- Visited Binus University, Indonesia during June 28 July 05, 2013
- Visited Burnet Institute, Melbourne, Australia during April 06-09, 2013
- Visited Flinders University, Australia during April 09-11, 2013
- Visited European Parliament, Brussels for Global Challenges Global Collaboration Conference during March 07-09, 2013
- Visited National Institute of Radiological Sciences at Chiba, National Institute of Advanced Industrial Science & Technology at Ibaraki and Graduate School of Interdisciplinary New Science at Toyo University, Japan during December 02-09, 2012
- Visited Berlin, Germany for XX Biennial meeting of the International Society for Eye Research during July 20-26, 2012.
- Visited Addis Ababa, Ethiopia for 13th World Congress on Public Health held in Addis Ababa during April 21-27, 2012.
- Visited Rome, Italy for GRaPH-International Symposium during April 20-27, 2012.

Dr. Padmalatha Rai S

Visited University of Nottingham, UK in connection with Manipal-Nottingham joint Ph D programme in Life Sciences during November 11-14, 2013, along with Dr Krishna K Mahato, Professor, Biophysics Unit, School of Life Sciences

Dr. Roopa Nayak

Selected as a summer research fellow during June - July 2009 sponsored by IASc (Bangalore),



INSA (New Delhi) and NASI (Allahabad) and worked under the guidance of Dr Satish Patil, SSCU, IISc, Bangalore

Dr. Manjunath Joshi

Erasmus Mundus Fellowship to attend and deliver lectures at Biohealth computing Erasmus Mundus Program at University Joseph Fourier, Grenoble, France from August 28 to September 7, 2013.

Dr. Vidhu Sankar Babu

- Attended CIMAP Winter School Hands on training on Molecular Biology programme at CIMAP Lucknow, December 15 -31, 2003
- 2. Attended C-CAMP hands on Basic Flow Cytometry Course from December 17 21, 2009 at National Centre for Biological Sciences, TIFR, Bangalore, Karnataka, India
- 3. Attended Refresher course in Plant Taxonomy from December 6 10, 2010 at Tropical Botanic Garden and Research Institute, Pacha, Palode, Thiruvananthapuram, Kerala, India

Dr. Shama Prasada K

Visited National Institute of Radiological Sciences (NIRIS), Chiba, Japan from March 8-16, 2014

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Dr K Satyamoorthy

a) National committees

- President, Society for Mitochondrial Research and Medicine India
- Vice President, Society of Biological Chemists India
- Life Member, Indian Society of Human Genetics
- Life Membership of Society for Biotechnologists (India), Cochin
- Member, Biotechnology Consortium of India Ltd.
- Member of the Expert group on Translational Research for Products and Processes from Medicinal and Aromatic Plants of the DBT, GOI, New Delhi
- Member of the Expert Group on the Pharmacogenomics of the ICMR, GOI, New Delhi
- Member of the Scientific Advisory Board of Central Council for Research in Ayurvedic Sciences (CCRAS), GOI, New Delhi.
- Member of the Academic Committee of the Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad
- Member of the Task Force Committee, Directorate of Industries, Trade & Commerce, Govt of Goa.
- Member of the Research Advisory Board of the Aravind Medical Research Foundation, Madurai.

b) International committees

• Member American Association for Cancer Research since 1996



c) Editorial Boards

- Editorial Board Member of "Cancer Biology and Therapy", "Public Health and Genomics" and The Scientific World Journal"
- Editorial Board Member of International Journal of Human Genetics

Dr PM Gopinath

Editorial Board Member of International Journal of Human Genetics

Dr Padmalatha Rai

Reviewer for Medicinal Chemistry Research Journal

Dr Manjunath B Joshi

Editorial Board Member of Scientific World Journal (Cell Biology)

Reviewer for FASEB Journal, FEBS Letters, Cancer Chemotherapy and Pharmacology, International Journal of Biomedicine Science, Nutrition, Metabolism and Cardiovascular Diseases

Life member of Society of biological chemistry, India

Life member of Society of mitochondrial research and medicine, India

Dr Sanjiban Chakrabarty

- •Executive member of the Society for Mitochondrial Research and Medicine (SMRM)-India
- •Life member of European Association for Cancer Research
- •Life member of Society of Biological Chemist, India
- •Life member of the Society for Mitochondrial Research and Medicine (SMRM)-India
- •Editorial Manager, Public Health Genomics Journal, Karger AG.

Dr. Herman D'Souza

Member of Association of Clinical Biochemists of India (ACBI) and Society of Biological Chemists of India (SBCI)

Dr. A Muthusamy

Memberships in Scientific Societies:

Indian Society of Genetics & Plant Breeding (Life Member),

Society of Biological Chemists (India) (Life Member), IISC, Bangalore

Swamy Botanical Club (Life Member), Bharathidasan University, India.

Society for Mitochondrial Research and Medicine (Life Membership)

International Cotton Genome Initiative [ICGI]

Ad hoc reviewer for the following journals (International & National):

Photochemistry & Photobiology – B, Australian Journal of Crop Science,

Biologia (Springer), Journal of Plant Biochemistry & Biotechnology,

PNAS-India. Sec.B: Biol. Sci. Journal of Tropical Agriculture,

Indian Journal of Agricultural Sciences, Journal of Swamy Botanical Club and



Plant Omics Journal, J. Forestry Research and Molecular Biotechnology (Springer), Scientia Horticulturae and Comptes rendus Biologies

Dr. Shama Prasada K

Editorial Manager, Public Health Genomics Journal

Others (membership)

- Life member of Society of Biological Chemists, India
- Life member of Society for Mitochondrial Research and Medicine-India

Dr. Bobby Paul

• Life member of Society of Biological Chemists, India

27. Faculty recharging strategies

All faculty members undergo pedagogy training when they join the department. They are also encouraged to attend conferences, workshops, training programmes to rejuvenate and recharge themselves.

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects -70%
- \bullet percentage of students doing projects in collaboration with other universities / industry / institute -30%

29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post-doctoral fellows
- Students

Awards - faculty

Prof K Satyamoorthy

- Honorary Professor, School of Chemistry and Molecular Biosciences, University of Queensland, Brisbane, Australia
- Erasmus Mundus Professor, France, EU 2011 2014.
- Dr. P.A.Kurup Memorial Endowment Award 2013
- Research Scientist, Wistar Institute, Philadelphia 2003
- Visiting Professor, UNSW, Sydney, Australia 2008
- Dr TMA Pai Endowment Chair in Translational Genome Science



- Wesley Fellowship, Kansas, USA 1988
- Birla Fellowship, Mumbai 1987
- Lady Tata Fellowship, Mumbai 1985

Prof PM Gopinath

- GSF prize awarded by the Council for Radiation and Environmental Research, Germany.
- Fellow, Alexander von Humboldt Foundation, Germany
- Expert in the SAP (Special Assistance Programme) of UGC, New Delhi. Guru Nanak Dev University, Amritsar
- Received Dr. L. D. Sanghvi Oration Award, given once in two years, by the Indian Society of Human Genetics.

Dr. Sanjiban Chakrabarty

Best Research Paper at Manipal Research Colloquium 2014

Dr. Manjunath Joshi

- Travel award by European society of cardiology for oral presentation at European Society of cardiology meeting, Vienna, September 2007
- Best poster award: Indo-US symposium on "Mass spectrometry based metabolomics in disease biology" Trivandrum, India. January 2014.

Dr. Vidhu Sankar Babu

- Best Paper Presentation award at the National Symposium on Innovative and Modern Technologies for Agricultural Productivity, Food Security and Environmental Management held at Saffron Boutique Hotel, Mangalore, Karnataka during July 22-23, 2011 for the paper entitled "Spathoglottis plicata - An orchid with superior decarboxylation efficiency"
- Best Oral Presentation Award in 8th National Symposium "Noni for Sustainable Wellness" organized by International Society for Noni Science and World Noni Research Foundation held at GKVK Campus, University of Agricultural Sciences, Bangalore, Karnataka on October 29-30, 2013 for the paper entitled "Time Reliant Functional Assays substantiate Chemopreventive & Radioprotective prospective of *Morinda citrifolia* L. (Noni) Fruit Extract"
- CSIR-NET (2002 and 2006)
- Fast Track Young Scientist Grant from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India-2012-2015

Dr. A Muthusamy

- 2nd Prize in Oral Presentation of the paper at ISPP Zonal Conference on Plant Physiology & Crop Improvement at SBST, VIT University, Vellore, TN on 22nd October 2010
- Overseas Travel and Perdiem Award: The Council of Scientific and Industrial Research (CSIR), and Indian National Science Academy [INSA), Govt. of India, New Delhi were awarded Full Travel Grant and Perdiem respectively for the participation and presentation of a paper at 3rd International Cotton Genome Initiative [ICGI] Workshop held at Nanjing Agricultural University, Nanjing, China during 3-6th June 2002.

Dr. Shama Prasada K

- International travel fellowship by DBT, Government of India to attend 10th Asia Pacific Conference on Human Genetics, Held at Kuala Lumpur, Malaysia, 5-8, December, 2012
- Certificate of appreciation for Young Investigator Award at 10th APCHG, December 5-8, 2012, Kuala Lumpur, Malaysia



Dr. Bobby Paul

Received best paper award in International Conference on Computational Methods in Engineering and Health Sciences, Organized by the Director research, Manipal University, 17-19 December, 2014.

Dr. T.S. Murali

Awarded DST-SERB sponsored Fast Track grant for Young Scientists in 2010

Mr. Sandeep Mallya

Won the 3rd prize in the poster competition in the Indo-US Bilateral Workshops& Conferences on "Big Data Analysis and Translation in Disease Biology" held at New Delhi during January 18-22, 2015.

Awards - scholars/students

- Mr Harish Rotti (PhD scholar) INSPIRE fellowship by DST, Government of India, 2010-
- Ms Kavitha (PhD scholar) INSPIRE fellowship by DST, Government of India, 2011-2013
- Ms Kavitha (PhD scholar) Best poster award for "Genotyping of Staphylococcus aureus isolates from diabetic foot ulcer" at 3rd World Congress Conference on Diabetes & Metabolism in Hyderabad in 2012
- Mr Ashok Kumar (PhD scholar) Best poster award for the poster entitled 'γ-radiation induced methylation and expression profiles in human cancer cell lines' at the International Conference on Cancer Prevention, Diagnosis and Treatment held at Jaipur, 21-22 January 2012.
- Mr MN Phani (PhD scholar) Best poster award for poster "Association of genetic variants in KCNJ11, TCF7L2, SLC30A8 and IGF2BP2 genes for type 2 diabetes and response to Sulfonylurea and Metformin in South Indians" (NM Phani, PS Rai, P Adhikari, SK Nagri, SC D'Souza, K Satyamoorthy) at 3rd World Congress on Diabetes and Metabolism, Hyderabad (India), 24-26 September 2012.
- Mr MN Phani (PhD scholar) Best poster award for "Impact of KCNJ11, TCF7L2, SLC30A8, IGF2BP2, PPARG, SLC47A1, STK11, HHEX, KCNQ1, CDKAL1, FTO, CYP2C9, ADIPOQ, CAPN10 Gene Polymorphisms on Risk of Type 2 Diabetes and Therapeutic Response to Sulfonylurea and Metformin Therapy" (NM Phani, PS Rai, P Adhikari, SK Nagri, SC D'Souza, K Satyamoorthy) at International conference of human genetics and 39th Annual conference of Indian Society of Human Genetics (ISHG) Ahmedabad (India) 22-25 January, 2014.
- Mr MN Phani (PhD scholar) Certificate of Appreciation for the award of young scientist for "Population specific risk association of potassium channel gene (KCNJ11) polymorphisms for type 2 diabetes at International conference of human genetics and 39th Annual conference of Indian Society of Human Genetics (ISHG) Ahmadabad (India) 22–25 January, 2014.
- Mr Ravishankara B (PhD scholar) Young scientist travel award, Development of Allele Specific Hybridization Assay and Computer Aided Tool for Detection of Genetic Variations in Folate Pathway Genes at International conference of human genetics and 39th Annual conference of Indian Society of Human Genetics (ISHG) Ahmadabad (India) 22-25 January, 2014.
- Mr Rohit Bharath & Ms Avika Roy (MSc Medical Biotechnology) received Erasmus



- Mundus scholarship for the BioHealth Computing program at Joseph Fourier University, Grenoble for the year 2013-2014.
- Mr Pratik Vyas & Ms Prakriti Haldia (MSc Molecular Biology and Human Genetics) received Erasmus Mundus scholarship for the BioHealth Computing program at Joseph Fourier University, Grenoble for the year 2013-2014.
- Ms Apoorva Jnana & Ms Surabhi Mishra (MSc Medical Biotechnology) received Erasmus Mundus scholarship for the BioHealth Computing program at Joseph Fourier University, Grenoble for the year 2014-2015.
- Mr Arjuna Sreenivasan (MSc Bioinformatics) received PreDoc scholarship of Joseph Fourier University, Grenoble for the year 2014-2015.
- Ms Aarushi Jain (BSc Biotechnology) received scholarship for semester studies at Flinders University, Australia during 2013
- Mr Anant Kakkar & Mr Joel Andrade (BSc Biotechnology) received scholarship for semester studies at Flinders University, Australia during 2014

Seminars/Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

2012

Refresher Course on Biotechnology and Molecular Biology Techniques, Indo-US Symposium on Brain Disorders, SBCI-Manipal Chapter

| Funding Agencies | | |
|--|--|--|
| National Academy of Science, Bangalore | | |
| DBT, New Delhi | | |
| Indian National Science Academy, New Delhi | | |
| INDO-US Science and Technology Forum | | |
| Society of Biological Chemists, India | | |

Participants/Resource Persons

| Refresher Course | Indo-US Symposium |
|-------------------------|--------------------|
| Dr. J Nagaraju | Dr. SS Agarwal |
| Dr. Utpal Nath | Dr. J Gleeson |
| Dr. DN Rao | Dr. IC Verma |
| Dr. P Kondaiah | Dr. JM Graham Jr |
| Dr. V Nagaraja | Dr. JC Carey |
| Dr. K Thangaraj | Dr. R Kukreti |
| Dr. K Ramnarayan | Dr. M Muranjan |
| Dr. Usha Vijayaraghavan | Dr. K Thangaraj |
| Dr. I Karunasagar | Dr. JA Golden |
| Dr. K Somasundaram | Dr. A Paciorkowski |
| Dr. KP Gopinathan | Dr. M Kabra |
| Dr. K Muniyappa | Dr. EH Sherr |
| SBCI-Manipal Chapter | Dr. KM Girisha |
| Dr. V Nagaraja | Dr. SR Phadke |
| Dr. Ashok Prabhu | Dr. G Mirzaa |



| Dr. G Sathisha | Dr. A Dalal |
|--------------------------|-----------------|
| Dr. BS Satish Rao | Dr. S Danda |
| Dr. R Somasundaram | Dr. N Udupa |
| Dr. P Rao | Dr. PM Gopinath |
| Dr. YM Shivarajashankara | Dr. S Ali |

2013

Refreshers Course for teachers on 'Modern Genetics: Concepts and Practice', Symposium and Workshop on "Epigenomics and Cancer Informatics", Annual Meeting of Coastal Karnataka Chapter of Society of Biological Chemists India (SBCI)

| Funding Agencies | | |
|--|--|--|
| Indian Academy of Science, Bangalore | | |
| Indian National Science Academy, New Delhi | | |
| National Academy of Science, Allahabad | | |
| Society of Biological Chemists, India | | |
| Indian Council of Medical Research (ICMR), New Delhi | | |
| Medical Council of India (MCI), New Delhi | | |
| National Centre for Cell Sciences, Pune | | |

Participants/Resource Persons

| Symposium and Workshop | Refresher Course |
|----------------------------------|---------------------------|
| Dr. Sanjeev Galande | Dr. D.N. Rao |
| Dr. Sharmila Bapat | Dr. R. Mukhopadhyaya |
| Dr. Lekha Dinesh Kumar | Dr. V. Nagaraja |
| Dr. Angela Brand | Dr. K. P. Gopinathan |
| Dr. Helmut Brand | Dr. Jayarama S. Kadandale |
| Dr. Kshitish Acharya K | Dr. P. Kondaiah |
| Dr. Tapas K. Kundu | Dr. P N Rangarajan |
| Dr. Randeep Singh | Dr. Mitesh Shetty |
| Dr. Raj P.Warrier | Dr. K. Thangaraj |
| SBCI - Coastal Karnataka Chapter | Dr. S.P.Thyagarajan |
| Dr. Umesh Varshney | |
| Dr. Kumar Somasundaram B. | |
| Dr. Sathees C. Raghavan | |
| Dr. Rajeshwar Achur | |
| Dr. Chenne Gowda | |

2014

10th Indo Australian Workshop on Biotechnology – Epithelial Development & Disease, SMRM Conference on "Mitochondrial Biology: from Molecules to Disease, Symposium on Human Cytogenetics and Genetic Toxicology, Refresher Course on "Bioinformatics in Modern Biology", Society of Biological Chemists (India) Coastal Karnataka Chapter

| Funding Agencies |
|--|
| National Academy of Science, Bangalore |



| Indian National Science Academy, New Delhi | | |
|---|--|--|
| National Science Academy, Allahabad | | |
| Society of Biological Chemists, India | | |
| Department of Biotechnology (DBT), New Delhi | | |
| Council of Scientific & Industrial Research (CSIR), New Delhi | | |
| Indian Council of Medical Research (ICMR), New Delhi | | |
| Medical Council of India (MCI), New Delhi | | |

Participants/Resource Persons

| 10 th Indo-Australian Workshop | SMRM Conference | | | |
|---|---------------------------------|--|--|--|
| Dr. Pawan Kumar Gupta | Dr. Lalji Singh | | | |
| Dr. Prabha Nair | Dr. Satish P. RamachandraRao | | | |
| Dr. Sudhir Krishna | Dr. Upender Manne | | | |
| Dr. Rajesh Gokhale | Dr. Anshu Bharadwaj | | | |
| Dr. Jomon Joseph | Dr. Josef Finsterer | | | |
| Dr. M. R. Pillai | Dr. Gayathri N | | | |
| Dr. Geeta Vemuganti | Dr. Aruna Gowda | | | |
| Dr. P. Dasaradhi | Dr. Suresh Mishra | | | |
| Dr. D. Balasubramanian | Dr. Naresh Babu V. Sepuri | | | |
| Dr. M. Panicker | Dr. Kumarasamy Thangaraj | | | |
| Dr. Polani Sheshagiri | Dr. Mercy P. Davidson | | | |
| Dr. Mohan Wani | Dr. Keshav K Singh | | | |
| Dr. A. A. Hardikar | Dr. Amutha Boominathan | | | |
| Dr. Maneesha Inamdar | Dr. Debkumar Pain | | | |
| Dr. N. S. Raviraj | Dr. Sundaresan Periasamy | | | |
| Dr. Geeta Jotwani | Dr. Bruce Cohen | | | |
| Dr. Alok Srivastava | Dr. Rana Singh | | | |
| Dr. K. Dharmalingam | Dr. Ilora Ghosh | | | |
| Dr. Ramesh Bhonde | Di. IIOI a Oliosii | | | |
| Dr. Zee Upton | Refresher Course Bioinformatics | | | |
| Dr. Pritinder Kaur | Dr. N. Mukunda | | | |
| Dr. Allison Cowin | Mr. G. Madhavan | | | |
| Dr. Erik Thomson | Dr. K. Guruprasad | | | |
| Dr. Mahendra Rao | Dr. K. Acharya | | | |
| Dr. Jane Visidar | Dr. Anantharamanan | | | |
| Dr. Jian Li | Dr. R. Manimekalai | | | |
| Dr. Roger Nation | Dr. Renu Durairaj | | | |
| Dr. Joe Rothnagel | Dr. Sharmila Mande | | | |
| Dr. David Leavesley | Dr. Shekar Mande | | | |
| Dr. Fiona Wood | Dr. K. Thangaraj | | | |
| Dr. Ken Beagley | Dr. V. Nagaraja | | | |
| Dr. Mark Kendall | | | | |
| Dr. Robin Marks | Human Cytogenetics Symposium | | | |
| Dr. Richard Kefford | Dr. P.C. Kesavan | | | |
| Dr. Nick Hayward | Dr. N. Jaya Shetty | | | |
| Dr. A. A. Hardikar | Dr. Suresh Abraham | | | |
| Dr. S.T. Santhiya | | | | |
| SBCI – Coastal Karnataka Chapter | Dr. Chandra R. Samuel | | | |
| Dr. V. Nagaraja | Dr. K. Thangaraj | | | |
| Dr. Umesh Varshney | | | | |
| Dr. D.N. Rao | Flow Cytometry Workshop | | | |



| Dr. Indrani Karunasagar | Dr. Friedrich Otto |
|------------------------------|-----------------------|
| Dr. K. Shamaprasada | Dr. Venkatachallam |
| Dr. P.Kondaiah | Dr. H. Krishnamoorthy |
| Dr. K. Somasundaram | |
| Dr. K.R.Chandrashekar | |
| Dr. Anirban Chakraborty | |
| Dr. Subrahmanyam Gangavarapu | |
| Mr. Kamalesh Mumbrekar | |
| Mr. Himanshu Gupta | |

31. Code of ethics for research followed by the departments

Research in the department of biotechnology follows universally practised ethics. Work is carried out to resolve issues in human health and the environment. The Department does not discriminate any individual based on their gender, religion or race. Researchers are encouraged to have an open mind-set in their scientific and professional activities, with ideas and results that are original, which do not infringe upon the rights of others. Animal studies are conducted according to the UGC guidelines, through the Ethical Committee of the Manipal University, ensuring safety of all parties concerned. All laboratories come under the ISO certification for quality and environment management and the researchers in those laboratories are encouraged to strictly follow the guidelines.

32. Student profile course-wise: [Details for 2014-15]

| # | Name of the Course (refer to question no. 4) | Applications received | | ected Female | _ | ass entage Female |
|---|--|-----------------------|----|-----------------|------|-------------------------|
| 1 | BSc Biotechnology | 575 | 13 | 27 | 67 | 100 |
| 2 | MSc Medical Biotechnology | | 5 | 9 | 50 | 100 |
| 3 | MSc Molecular Biology and Human Genetics | 186 | 7 | 12 | 100 | 89 |
| 4 | MSc Bioinformatics | 11 | 5 | 4 | 100 | 100 |
| 5 | PG Diploma in Cellular and Molecular Diagnostics | 17 | 3 | 14 | 100 | 100 |
| 6 | Certificate Course in Bioinformatics | 10 | 6 | 4 | 100 | 100 |
| 7 | PhD | 96 | 3 | 3 | In P | rogress |

33. Diversity of students

| # | Name of the Course (refer to question no. 4) | % of students from the same University | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|---|------------------------------------|
| 1 | BSc Biotechnology | - | 23 | 73 | 4 |
| 2 | MSc Medical Biotechnology | 46 | 21 | 33 | 0 |
| 3 | MSc Molecular Biology and Human | 11 | 57 | 32 | - |



| # | Name of the Course (refer to question no. 4) | % of students from the same University | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|---|--|---|---|------------------------------------|
| | Genetics | | | | |
| 4 | MSc Bioinformatics | - | 33 | 67 | - |
| 5 | PG Diploma in Cellular and Molecular Diagnostics | - | 41 | 59 | - |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

(Based on information available)

GATE - 4

CSIR-JRF/NET – 17

35. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | 80 |
| PG to MPhil | 0 |
| PG to PhD | 50 |
| PhD to Post-Doctoral | 10 |
| Employed | 60 |
| Campus selection | |
| Other than campus recruitment | |
| Entrepreneurs | |

36. Diversity of staff

| Percentage of faculty members who are graduates | | | | |
|---|----|--|--|--|
| of the same University | 16 | | | |
| from other universities within the State | 42 | | | |
| from universities from other States | 34 | | | |
| from universities outside the country | 8 | | | |

37. Number of faculty who were awarded PhD, DSc and DLitt during the assessment period

| Details | 2012 | 2013 | 2014 |
|-------------------------------|------|------|------|
| Number of faculty awarded PhD | 1 | 0 | 0 |

38. Present details of infrastructural facilities with regard to



- a) Library Departmental Library with over 200 subject-specific books
- b) Internet facilities for staff and students available, 1 GB LAN, Wi-Fi
- c) Total number of class rooms six
- d) Class rooms with ICT facility
- e) Students' laboratories four
- f) Research laboratories twenty one
 - 1. **Molecular biology laboratory:** Facilities necessary for all molecular biology related work is available in four separate laboratories. Laboratory with routine instrumentations such as PCRs, Gel doc systems, western blots, electrophoresis units etc.
 - 2. Mammalian cell culture laboratory: There are half a dozen fully equipped with microscopes (including fluorescence) in tissue culture laboratories available for research, diagnostic and teaching purposes.
 - 3. Microarray laboratory: Agilent microarray 2 micron scanner with bioanalyser and hybridisation ovens to undertake microarray array analysis for high throughput gene expression, epigenetics and SNP analysis
 - 4. **DNA Sequencing laboratory:** DNA sequencer ABI-3130 Genetic Analyser with 16 capillaries for sequence and fragment analysis purposes.
 - 5. Flow Cytometry laboratory: Flow cytometers (BD FACS Calibur) are available for Teaching, Research and Diagnostic purposes.
 - 6. Mass Spectrometry laboratory: ESI-QTOF with HPLC for proteomics analysis.
 - 7. **Imaging laboratory:** Fluorescent scanner and high resolution image capture microscopy.
 - 8. **Microbiology laboratory:** State of the art microbiology laboratory
 - 9. Atomic Absorption spectrometry laboratory: Procedures for elemental analysis of clinical, environmental and biological samples are available
 - 10. **HPLC Laboratory:** Three separate HPLC machines with the detectors such as UV, visible, fluorescence, electrochemical and PD are available.
 - 11. **Radioisotope laboratory:** Separate radioactive material handling facility with liquid scintillation counters, scanners etc. are available.
 - 12. Biophysics laboratory: The Biophysics laboratory conducts experiments on biological/ pre-clinical/ clinical samples applying Laser Induced Fluorescence and Photoacoustic Spectroscopy to evaluate their spectral information related to diseased and non-diseased conditions. Experiments of Low Level Laser Therapy (LLLT) for tissue regeneration are also conducted in this laboratory.
 - 13. Common Instrumentation Facility: It consists of large scale bacterial incubator/ shaker, high speed and ultra high speed centrifuges, frozen and paraffin block preparation microtomes.
 - 14. **Tissue culture facility:** Well equipped tissue culture room for the maintenance of



- human normal and tumour cell lines, mouse tumour cells lines, and repository for experimentation.
- 15. Animal house facility: The centralised, state-of-the-art, air-conditioned animal house with separate breeding, experimentation and sterilization rooms with relevant instrumentations. The facility mainly houses mice of various strains (Balb/c, Swiss albino, C57BL6) as well as rats.
- 16. Animal tumour facility: Routine transplantable tumour maintenance for experimentation in the form of both solid (fibrosarcoma and melanoma), ascities form (Ehrlich, P388, Daltons lymphoma etc.) and nude mouse facility for growing xenograft tumours.
- 17. Irradiation facilities: In-house: Faxitron CP160 X-ray machine
- 18. Genetic toxicology and Analytical facility: With fluorescence (Olympus, Carl Zeiss) & light microscopes and image analysis systems, spectrophotometers (Shimadzu) for routine biochemical and cytotoxicity assays
- 19. **Bioinformatics lab:** Well equipped Computers with Linux/Windows Operating System, and Sun Server system for data analysis (including microarray data) with a good storage capacity.
 - a. Computer Lab: Computers inbuilt with Linux (Ubuntu, CentOS) and Windows operating systems are dedicated for student purposes.
 - b. Cluster facility: To analyse bulk data generated from the genomic, proteomic platforms and to host in-house bioinformatics tools bioinformatics department has a cluster of SunFire X4100 servers.
 - c. Manipal Computational Biology Interface (MCBI): Bioinformatics department has developed an in-house tool which connects Life Science content management system (LS-CMS), Local Blast programs, Post-epigenomic Analysis Pipeline and Mass spectrometry search engines etc to analyse data locally. We use Python, Java, C++ as tool development programming and R, MatLab as statistical programming language.
- 20. Plant Biotechnology lab: Well-equipped culture room for the plant cell, tissue and organ culture for different experiments.
- 21. Green House facility: MLSC has state of the art independent green house of 40×80 feet in size for plant hardening of in vitro raised plantlets and for further experiments. Green house also has 100 important medicinal plants for research purpose.

39. List of doctoral, post-doctoral students and Research Associates

a) from the host University

Doctoral Students

- Bharath Prasad AS 1.
- Neetha John 2.
- Smitha Bhat



- 4. Samatha Bhat
- 5. Kavitha
- 6. Phani MN
- 7. Manjunath S
- 8. Chinchu Jayaprakash
- 9. Shubhankar Das
- 10. Bharath HR
- 11. Vinay Koshy Varghese
- 12. Vaibhav Shukla
- 13. Swathy PS
- 14. Melisa Jovita Andrade
- 15. Mangala Hegde
- 16. Raghushaker

Research Fellows

- 1. Rayzel Candida Fernandes
- 2. Rohit Bharath
- 3. Akshaykumar A Nayak
- 4. Supriti Ghosh
 - b) from other universities

Doctoral Students

- 1. Vishwanatha
- 2. Kamalesh D Mumbrekar
- 3. Ravishankar
- 4. Anantha Padmanabha
- 5. Venu S
- 6. Himanshu Gupta
- 7. Pushpendu Paladhi
- 8. Mallika Priya
- 9. Poornima Poojary
- 10. Balakrishnan A
- 11. Abitha Thomas
- 12. Yashvanthi Borkar
- 13. Raghu KS
- 14. Suma Prabhu
- 15. Deepika V Bhat
- 16. Monica Shirley Mani
- 17. Manik Vohra
- 18. Ipsita Pujary
- 19. Kiran KR
- 20. Manoj Bhat

Research Fellows

- 1. Vasudeep Shetty
- 2. Shreesha Bhat K
- 3. Shamprasad BR
- 40. Number of postgraduate students getting financial assistance from the University



41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. - Based on discussions in the Scientific Advisory Committee meetings, with research experts in academia and industry, combined with inputs from faculty, new programmes are developed. These developments are then further fine-tuned based on inputs during the Board of Study meetings before the new programme details are finalised.

42. Does the department obtain feedback from

faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, feedback on curriculum is obtained from faculty members during the various discussions that happen at SOLS. Based on the outcome of these discussions, necessary modifications are made in the teaching-learning-evaluation, subject to approval in the Board of Study meetings.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. Based on the feedback, necessary curriculum changes, infrastructure developments and changes in teaching-learning methods are brought into the department

alumni and employers on the programmes offered and how does the department utilize the feedback?

Final year students from all courses provide online feedback to the University, the details of which are made available to SOLS, for further action where needed. Efforts are underway to formulate suitable method to obtain feedback from alumni.

43. List the distinguished alumni of the department (maximum 10)

| Name (degree) | Credentials |
|------------------------------|--|
| Dr Chidananda (PhD) | Research Associate, Washington University, USA |
| Dr Raghu Radhakrishnan (PhD) | Professor, MCODS, Manipal |
| Dr Satyajit Patra (PhD) | Asst. Professor, MUA, St. Kitts & Nevis |
| Dr Shamaprasad K (PhD) | Asst. Professor, SOLS, Manipal |
| Dr Roshan Mascarenhas (PhD) | Post-Doctoral Fellow, Ohio State University, USA |
| Ms Gayathri (MSc) | PhD graduate from University of California, USA |
| Ms Dhanya Nambiar (MSc) | Research Scholar, JNU, New Delhi (Fullbright Fellow) |
| Mr Sunil Kalmadi (MSc) | Post-Doctoral Fellow, NIMHANS, India |
| Ms Niyati Khetarpal (MSc) | PhD student, NII, New Delhi |
| Mr Vishal Hegde (MSc) | PhD student, University of Cologne, Germany |
| Mr Swapnil Mulekar (BSc) | Director and CEO, Mulekar HealthCare Pvt. Ltd. |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.



Selected students participate in the leadership program initiative of the Manipal encouraged to University. Students are also participate in the various conferences/seminars/workshops conducted by the department (details given in q30 above), which include lectures and other interactive sessions with external subject experts. Students also have the opportunity to interact with several visiting scientists and other experts, who visit the campus regularly. These initiatives enrich the student experience.

45. List the teaching methods adopted by the faculty for different programmes.

Black/white board teaching, using MS-Power point presentations, audio-visual aids, lecturing, quizzes, pre-arranged and impromptu seminars, demonstrations etc.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Nil

47. Highlight the participation of students and faculty members in extension activities.

Student Council of SOLS, every year, takes part in social activities. It has contributed funds and several help in kind, by visiting orphanages and old-age homes in and around Udupi and Manipal. Some of the recent visits were to Asha Nilaya, a school for mentallychallenged special children; Ozanam, an old age home; Viswasada Mane Orphanage; Shirdi Sai Baba Cancer Hospital, Manipal.

They also organise food fest every year [titled 'Bonheur Culinaire' in 2009, 'Ambrosia' since then] open for everyone willing to enjoy the culinary delights that the students whip up from meagre resources and imagination.

Students have won several awards and accolades in various cultural fests and competitions held at the inter-collegiate competitions of the University, such as VERVE, REVELS, UTSAV etc. over the years

48. Give details of 'beyond syllabus scholarly activities' of the department.

The Student Council of SOLS conducts Prakaya (where minds meet) every year, wherein students from other colleges are given a platform to showcase their cultural and literary talents. This event helps in developing planning and organizational skills among the students of SOLS.

Students of SOLS conceived and organized a 'Research Awareness Programme' in 2009, to neighbouring high school students and elucidated the importance of scientific research in the development of a country, especially India.



Students also participated in quiz and poster competitions held at Manipal University. They also took part in the biotechnology poster presentation of BioBiz 2010 at Bangalore.

They regularly participate in National Biotechnology Symposium 'Symbiot' organized by constituent institutions of Manipal University.

They undertook a 'Go Green' campaign to plant saplings and a cleaning drive of the campus to promote environmental awareness and cleanliness, as part of the Swach Bharath call (2014). They participated in the Rashtriya Ekta Diwas, Maatrbhasha Diwas, and International Students Day celebrations by organising essay-writing, debates and drawing competitions.

Students Council (2014) published quarterly e-newsletter covering scientific research reports of current interest by the students. They set up a DebSoc and Model United Nations Clubs to promote healthy debate of concerned issues.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

The institution is certified for quality and environmental management systems through ISO 9001:2008 and ISO 14001:2004 certifications by TUV Rheinland.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Our School has published over 220 articles in peer-reviewedinternational journals in the fields of Molecular Biology, Genetics, Pharmacogenomics, Plant Biotechnology, Radiation Biology, Biophysics, Microbiology, and Biochemistry, contributing to new knowledge.

We have conducted 6 Teachers' Training courses to spread knowledge

We have conducted ~18 workshops and ~12 conferences

51. Future plans of the department.

Continue to contribute to new knowledge by discovery through research and development in relevant areas.

Establish, sustain and operate as top research Institute in the world.

Strive for translation of existing and future research programs.

Generate students equipped with cutting edge capabilities and quality values of the highest order

52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths – Academic excellence (ranked number three among private Biotechnology

EVALUATIVE REPORT OF THE DEPARTMENT



schools in India), merit-based admissions, Basic and Translational Research programme, state-of-the-art infrastructure, industry-academia interactions, best human resources, hospital, serving the community through high-end diagnostics.

Weaknesses – Lack of Government grants/support (UGC), faculty, awareness and accessibility across the country

Opportunities – Undertake state-of-the-art teaching and research, national and international collaborations (private and public), expansion of diagnostics at the regional and national level

Challenges – To be at the top of the national and international ranking, attract top-quality research scholars, industry placement of students due to locational/regional constraints, developing research programs into substantial contribution to society.



Evaluative Report of the Department

Department of Radiobiology and Toxicology, SOLS

1. Name of the Department : Division of Radiobiology and Toxicology

[Department of Radiobiology, until 2007]

2. Year of establishment : 1986

3. Is the Department part of a School/Faculty of the University?

Yes, it is part of School of Life Sciences

- 4. Names of programmes / courses offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.) PhD
- 5. Interdisciplinary courses and departments involved: PhD KMC, MCOPS, Biostatistics
- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.

Nil

- 7. Details of programmes / courses discontinued, if any, with reasons : Nil
- 8. Annual/ Semester/Choice Based Credit System : Not Applicable
- 9. Participation of the department in the courses offered by other departments.
 - 1. **School of Life Sciences:** Involved in teaching theory, practical, seminars, laboratory rotations, research project work for BSc (Biotechnology), MSc (Molecular Biology and Human Genetics), MSc (Medical Biotechnology), MSc (Bioinformatics) and PG Diploma in Cellular and Molecular Diagnostics.
 - 2. **School of Allied Health Sciences:** Theory Classes for BSc Medical Radiation Technology (MRT) and MSc Medical Radiation Physics (MRP)
 - 3. **Manipal Institute of Technology**: Theory classes on Radiation Biology to Biomedical Engineering
- 10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Assistant Professors)

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professor | 2 | 2 |
| Associate Professors | - | - |
| Assistant Professors | - | - |
| Lecturer | 1 | 1 |



11. Faculty profile with name, qualification, designation and specialization (DSc/DLitt/ PhD/MPhil, etc.)

| # | Name | Qualification | Designation | Specialization | No. of Years of experience | No. of PhD students guided for the last 4 years |
|---|------------------------|---------------|-----------------------|---|----------------------------------|---|
| 1 | Dr BS Satish Rao | PhD | Professor and Head | Radiobiology and Toxicology | 23 | 5 |
| 2 | Dr Krishna K Mahato | PhD | Professor | Laser Spectroscopy | 22 | 5 |
| 3 | Mr Kamalesh DM | MSc, MPhil | Lecturer | Radio sensitivity and Radiogenomics | 07 | - |

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

| Senior Visiting Fellows | Affiliations |
|--------------------------------|--|
| Dr Awtar Krishan Ganju | University of Miami, Miller School of Medicine, Miami, USA. |
| Dr Vivek Tanvade | Genome and Gene Expression Data Analysis Division, Bioinformatics |
| Dr vivek ranvade | Institute, Singapore. |
| Dr H Krishnamurthy | National Center for Biological Sciences, Bangalore. |
| Dr Padma Narayanan | Amgen, Inc. USA |
| Dr MG Ormerod | Institute of Cancer Research, England |
| De Avinach N Dhichay | Cancer Biologist, Former Director Cancer Research Institute (TMH), |
| Dr Avinash N Bhishey | Mumbai |
| Dr Gopal C Kundu | Scientist F, National Center for Cell Science, Ganeshkhind, Pune |

13. Percentage of classes taken by temporary faculty – programme-wise information: Nil

14. Programme-wise Student Teacher Ratio - Not applicable, since the division does not conduct graduate programmes on its own, but contributes to the programmes of sister departments.

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

| Details | Sanctioned | Filled |
|------------------------------------|------------|--------|
| Academic support staff (technical) | 4 | 4 |
| Administrative staff | 1 | 1 |

16. Research thrust areas recognized by funding agencies

Cellular and Molecular Radiation biology, Experimental Oncology, Toxicology, Targeted drug delivery, Biodosimetry

Biophysics:

In vitro/ in vivo applications of fluorescence and photoacoustic spectroscopy,



Proteomics and Protein Dynamics, Developing optical instrumentations for early detection of diseases, Low Level Laser Therapy (LLLT) for tissue regeneration

17. Number of faculty members with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

| # | PI | Year | Name of the project | Name of the funding agency (all National) | Total grant received (sanctioned) (in rupees) |
|---|-------------------|------|---|--|--|
| 1 | Dr. BS Satish Rao | 2012 | γ-H2AX foci analysis for the management of early triage and its semi- automatization for high- throughput analysis | BRNS | 22,45,642 (24,31,000) |
| 2 | Dr. BS Satish Rao | 2015 | Investigations on the Prenatal and Postnatal EMF Radiation exposure in a Mouse Model. | DST - SERB | 20,00,000 (54,70,000) |
| 3 | Dr. BS Satish Rao | 2015 | Mitochondria as an Early Indicator of Cellular Stress upon Xenobiotic and Radiation Exposure | ICMR | (27,09,000) |
| 4 | Dr. KK Mahato | 2012 | Evaluation and optimization of the use of laser radiation for burn wound therapy - An <i>in vivo</i> experimental study | DAE/BRNS | 23,59,750 (24,89,500) |
| 5 | Dr. KK Mahato | 2014 | Evaluation of the predictive potential of photoacoustic spectroscopy as an objective tool for diagnosing breast cancer conditions: A pilot study. | ICMR | 2,57,600 (2,57,600) |

18. Inter-institutional collaborative projects and grants received

a) All India collaboration:

Prof. Depankar Chatterji, Molecular Biophysics Unit, IISc, Bangalore-560012 Prof. SV Bhat, Dept. of Physics, IISc, Bangalore-560012 Prof. MAN Razvi, Dept. of Physics, King Abdulaziz University, Jeddah, Saudi Arabia

b) International:

India – Japan Cooperative Science Programme

Project Title: Population based human genetic variations and impact on radiation effects. Agency: DST, Govt of India



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received (from 2012 to 2014)

| Funding Agency | Total Grants Received (in Rs.) | Total Grants Sanctioned (Rs.) |
|----------------|--------------------------------|--------------------------------------|
| DBT | 6,40,163 | 6,43,000 |
| ICMR | 11,39,925 | 12,51,720 |
| VGST - Spice | 40,000 | 40,000 |
| BRNS | 18,23,692 | 18,63,550 |
| BRNS | 15,51,300 | 15,51,300 |
| ICMR | 2,57,600 | 2,57,600 |

20. Research facility / centre with

State recognition - Nil

National recognition - Centre of Excellence for Radiation biodosimetry – by Atomic Energy Regulatory Board (AERB), Department of Atomic Energy, Government of India. This is one among the three centers chosen by AERB in India.

International recognition – Nil

21. Special research laboratories sponsored by / created by industry or corporate **bodies**: Nil

22. Research output in last three years

| Details | | 2012 | 2013 | 2014 |
|--|---------------|------|------|------|
| Completed funded research projects | | 3 | 1 | 1 |
| Completed non-funded research projects | | 0 | 0 | 0 |
| Completed PhD research projects | | 0 | 0 | 1 |
| Completed PG research projects | | 4 | 3 | 2 |
| Completed UG research projects | | 2 | 3 | 3 |
| Publications | International | 7 | 3 | 11 |
| Publications | National | 0 0 | 0 | 0 |
| Books | | 0 | 0 | 0 |
| Chapters in books | | 0 | 0 | 0 |
| Conference | International | 13 | 0 | 6 |
| presentations | National | 0 | 5 | 9 |

Completed funded research projects

| # | Project Title | Funding Agency |
|---|--|-----------------------|
| 1 | Elucidation of the genetic basis for normal tissue radiosensitivity (2012) | DBT |
| 2 | Development of fiber optic probe based low level laser therapy (LLLT) for tissue regeneration (2012) | LSRB/DRDO |
| 3 | Predictive potential of fluorescence spectroscopy as an objective tool for evaluating burn wound granulation tissues (2012) | ICMR |
| 4 | Formulation and Screening of Pegylated Liposomal Plumbagin for improved Pharmacokinetics and Pharmacodynamics with reduced Toxicity against Human Breast Cancer (MCF-7) Xenograft in Nude Mice. (2013) | ICMR |
| 5 | Engineering of PEGylated super paramagnetic iron oxide nanoparticle | VGST SPICE |



| conjugated geldanamycin against breast cancer cells. (| (2014) | Project |
|--|--------------|---------|
| conjugated goldanamyem against oreast cancer cons. (| <u>~011)</u> | 110,000 |

Completed Ph.D. research projects

| # | Name | Thesis Title | Year |
|---|-----------|---|------|
| 1 | Dr. P. B. | "Wound healing potential of nigella sativa in mice exposed to | 2014 |
| 1 | Ravikiran | different doses of gamma radiation". | 2014 |

Completed PG research projects

| No | Name | Thesis Title | Year |
|----|----------------------|---|------|
| 1 | Hitendra Negi | Genetic polymorphisms and its role in radiotherapy induced acute skin reactions. | 2012 |
| 2 | Vishnu Chandran | Influence of tetrathiomolybdate on the Radiosensitizing effect of cisplatin under Oxic and hypoxic conditions. | 2012 |
| 3 | Asna Tungekar | Development of a simpler and costeffectivemethod for fluorescence insitu hybridization using quantum dots | 2012 |
| 4 | Elroy Joe Pereira | Autofluorescence characterization of cancer and normal cell lines | 2012 |
| 5 | Ajanta Paul | Role of Flavonoids in Amelioration of Mitochondrial Dysfunction Induced by Mercury Toxicity: An In Vitro Study Using HepG2 Cells. | 2013 |
| 6 | Aabir Chakraborty | Discrimination of cancerous and noncancerous spectral data by PCA, KNN based statistical analysis | 2013 |
| 7 | Uday M. Sannakki | Laser induced fluorescence study of cervical cancer samples | 2013 |
| 8 | Valita Lobo | Role of single nucleated polymorphism in breast cancer predisposition. | 2014 |
| 9 | Nishchal | Autofluorescence imaging of acidic and basic native page | 2014 |

Completed UG research projects

| # | Name | Thesis Title | Year |
|---|--------------------------------|---|------|
| 1 | Harshith | Role of Thymol in Mitigating Mercury Induced Cytotoxicity in Hepato-cellular Carcinoma (HepG2) Cells: A Post Treatment Scenario. | 2012 |
| 2 | Edward Mark Fernandes | In vivo Laser Induced Fluorescence (LIF) as an Objective Tool to Monitor Wound Healing Following Low Level Laser therapy. | 2012 |
| 3 | GeetikaDatta | Genetic Predictors Of Chemo radiotherapy Induced Acute Skin Toxicities | 2013 |
| 4 | Pooja Shridhar | Analysis of SOD, GST and TGF- \beta1Plasma Levels, Their Single Nucleotide Polymorphisms and its Association with Radiotherapy Induced Adverse Reactions in Cancer Patients | 2013 |
| 5 | Anusha Acharya | Predictive Potential of Fluorescence Spectroscopy as an Objective Tool to Evaluate Wound Granulation Tissues. | 2013 |
| 6 | Preeta Ananthanarayan an | Engineering of PegylatedSuperparamagnetic Iron Oxide Nanoparticle Conjugated Geldanamycin Against Breast Cancer Cells. | 2014 |
| 7 | Moushumi Goswami | Influence of selected gene varients on the chemotherapy and radiotherapy induced normal tissue toxicity in breast cancer patients. | 2014 |
| 8 | Manchi Vathsalya | The effect of low level laser irradiation on inflammatory response during burn wound repair - A pre-clinical study. | 2014 |



Publications:

Number of papers published in peer reviewed journals (national / international)

National: 0

International: 21

2012

International

Goutham HV, Mumbrekar KD, Vadhiraja BM, Fernandes DJ, Sharan K, Guruprasad KP, Satyamoorthy K, Satish Rao BS. 2012

DNA double strand break analysis by γ-H2AX foci: A useful method for determining the over-reactors of radiation induced acute reactions among head and neck cancer patients.

Int J of Radiat Oncol Biol Phys. 84:e607-612.

Agarwala S, Nageshwar Rao B, Mudholkar K, Bhuwania R, Satish Rao BS. 2012 Mangiferin, a dietary xanthone protects against mercury-induced toxicity in HepG2 cells.

Environmental Toxicology. 27:117-127.

3. Kiran Aithal B, Sunil Kumar MR, Nageshwar Rao B, Udupa N, Satish Rao BS. 2012 Tumor growth inhibitory effect of juglone and its radiation sensitizing potential: in vivo and in vitro studies.

Integrative Cancer Therapies. 11:68 - 80.

4. Prabhu V, Satish Rao BS, Chandra S, Kumar P, Rao L, Guddattu V, Satyamoorthy K, Mahato KK. 2012

Spectroscopic and Histological Evaluation of Wound Healing Progression Following Low Level Laser Therapy (LLLT).

Journal of Biophotonics. 5:168–184.

Varshini J, Srinag BS, Kalthur G, Krishnamurthy H, Kumar P, Rao SBS, Adiga SK. 5. 2012

Poor sperm quality and advancing age are associated with increased sperm DNA damage in infertile men.

Andrologia. 44:642–649.

Wagh A, Mahato KK, Lakshmikanth R, Rajaramakrishna R, Kamath SD. 2012. Optical properties of Eu₂O₃ doped lead fluoroborate glass.



American Institute of Physics, Conference Series. 1447, 537-538

Muthusamy A, Pratibha PK, Prabhu V, Mahato KK, Vidhu SB, Radhakrishna Rao M, 7. Gopinath PM, Satyamoorthy K. 2012

Influence of Helium-Neon laser irradiation on seed germination in vitro and physicobiochemical characters in seedlings of brinjal (Solanummelongena L.) var. Mattu Gulla. Photochem. Photobiol. DOI: 10.1111/j.1751-1097.2012.01162.x.

2013

International

Vasudev Ballal N, Nageshwar Rao B, Kundabala M, Seetharama Bhat, Satish Rao BS. 2013.

Assessment of genotoxic effect of Maleic acid and EDTA: A comparative in vitro experimental study.

Clin Oral Investig. 5:1319-1327.

9. Kumar D, Upadhya D, Raj S, Rao BSS, Guruprasad K, Adiga SK.

The extent of paternal sperm DNA damage influences early post-natal survival of first generation mouse offspring.

Eur J Obstet Gynecol Reprod Biol. (2013) 166 (2):164-167.

Prabhu V, Fernandes E.M, Rao BSS, and Mahato KK.

Non-invasive, in vivo fluorescence technique as an objective tool for monitoring wound healing following Low Level Laser Therapy.

Proc. of SPIE, (2013) 8565: 85650L-1-7.

2014

International

Mumbrekar KD, Fernandes DJ, Goutham HV, Sharan K, Vadhiraja BM, Satyamoorthy K, Bola Sadashiva SR. 2014

Influence of double-strand break repair on radiation therapy-induced acute skin reactions in breast cancer patients.

Int J Radiat Oncol Biol Phys. 88(3):671-676.

Venkatesh GH, Manjunath VB, Mumbrekar KD, Negi H, Fernandes DJ, Sharan K, 12. Banerjee S, Bola Sadashiva SR. 2014

Polymorphisms in radio-responsive genes and its association with acute toxicity among head and neck cancer patients.

PLoS One, 9(3): e89079.

Nishan B S, Shubhankar Das, B. Nageshwar Rao, B S Satish Rao. 2014 13.



Thymol, a Monoterpene Phenolic Derivative of Cymene, Abrogates Mercury Induced Stress Oxidative Resultant Cytotoxicity and Genotoxicity HepG2 (Hepatocarcinoma) Cells.

Environ Toxicol. Feb 27.doi: 10.1002/tox.21971.

14. Vijendra Prabhu, Rao BSS, Edward Mark Fernandes, Anuradha C K Rao. Keerthana Prasad and Mahato KK. 2014

Objective assessment of endogenous collagen in vivo during tissue repair by laser induced fluorescence.

PLoS One. 9(5):e98609. (1-15).

Mallika Priya, Satish Rao BS, Satadry Ray and Mahato KK. 2014 15.

Prediction of absorption coefficients by pulsed laser induced photoacoustic measurements.

Spectrochim Acta A Mol Biomol Spectrosc. 127:85-90.

Priya M, Satish Rao BS, Ray S, Mahato KK. 2014

Photoacoustic spectroscopy in the monitoring of breast tumor development: A preclinical study.

Proc. of SPIE. 8943: 894347, 1-6

17. Prabhu V, Satish Rao BS, Mahato KK. 2014

> Alterations in Cell migration and Cell viability of Wounded Human Skin Fibroblasts Following Visible Red light Exposure.

Proc. of SPIE, 8932: 89320C-1-7.

18. Prabhu V, Satish Rao BS, Mahato KK. 2014

> Efficacy of Multiple Exposure with Low level He-Ne Laser Dose on Acute Wound healing – A Pre-Clinical Study

Proc. of SPIE, 8932: 89320T-1-6.

19. Prabhu V, Acharya A, Satish Rao BS, Kumar P, Sharan A, Mahato KK. 2014 Prognostic Prospective of Laser Induced Fluorescence as an Objective Tool to Evaluate Collagen Deposition in Thermal Wounds- An ex vivo Study.

Proc. of SPIE, 8926: 892608-1-7

Samuelraj S, Prabhu V, Chandra S, Koshy S, Acharya S, Mahato KK. 2014 20. Does Ozone Enhance the Remineralizing Potential of Nanohydroxyapatite on Artificially Demineralized Enamel? A Laser Induced Fluorescence Study.

Proc. of SPIE, 8929: 892903-1-8.

www.manipal.edu



Manjunath S, Satish Rao BS, Satyamoorthy K, Mahato K. 2014 21.

Nature of Autofluorescence in Human Serum Albumin under its Native, Unfolding and Digested forms.

Proc. of SPIE, 8935: 893520-1-6.

Conference presentations

International

1. Satish Rao BS

"Anticancer, radiosensitizing potential of plumbagin and juglone as free and microsphere, liposome based targeted drug delivery platforms"

BNERC and IJAA Joint International Symposium on Advanced Science and Technology, Toyo University, Japan, Dec 8 2012.

2. Satish Rao BS

"Significance of DNA double strand break and its repair for the prediction of radiotherapy induced normal tissue acute toxicity"

National Institute of Radiological Science, Chiba, Japan, Dec 3, 2012.

3. Satish Rao BS

'Prediction of radiotherapy induced normal tissue acute toxicity: Molecular significance of DNA double strand breaks and its repair'

International Conference on Radiation Biology (ICRB-2012), ACTREC, Tata Memorial Centre, Navi Mumbai, Nov 22-24, 2012.

4. Satish Rao B.S.

Association of DNA Damage and Repair with Radiotherapy Induced Acute Skin Reactions in Breast Cancer Subjects.

39th Annual Meeting of Europian Radiation Research Society (ERR2012) held at VietrisulMare, Italy during 15-19 October 2012.

5. Satish Rao BS

"Protective effect of zingerone, a dietary compound against radiation induced damage"

International Conference on Emerging frontiers and challenges in radiation Biology, Govt. Dungar College, Bikaner, Jan 24-25, 2012.

6. Satish Rao BS

"Anticancer, radiosensitizing effect of Plumbagin and Juglone as free and microsphere, liposome based targeted drug delivery platforms",



International Conference on Cancer prevention, diagnosis and treatment (ICCPDT-2012), Jaipur, Jan 21-22, 2012.

7. Archana PR

'Role of Thymol in curtailing radiation injury: an in vitro study',

International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012), Jaipur, Jan 21-22, 2012.

8. Kamalesh DM

'Evaluating the predictive potential of DSB repair kinetics in radiotherapy induced acute skin reactions',

International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012), Jaipur, Jan 21-22, 2012.

9. Goutham HV

'Association between polymorphisms in genes of NHEJ pathway and acute reactions of radiotherapy in head and neck cancer patients',

International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012), Jaipur, Jan 21-22, 2012.

10. Shubhankar Das, BS Satish Rao,

"Radiation antagonistic effects of hydroalcoholic extract of Saracaindica- An in vitro study using Chinese hamster Lung fibroblast (V79) cell",

International Symposium on Emerging trends in Free Radicals, Antioxidants and Nutraceuticals on Health, Disease and Radiation Biology, Kolkata, Jan 12-14 2012 (Poster).

11. Satish Rao BS

'Cytoprotective Effect of Mangiferin against Methylmercury Induced Cellular Damage in IMR-32, Human Neuroblastoma Cells by the Inhibition of Oxidative Stress'

International Symposium on Emerging Trends in Free Radicals, Antioxidants and Nutraceuticals on Health, Disease and Radiation Biology, Kolkata, Jan 12-14, 2012.

12. Mahato KK

www.manipal.edu

Photoacoustic Spectroscopy: Technique and Applications

International conference on Physics of Materials and Materials based Device Fabrication. Shivaji University, Kolhapur, Maharastra, India, 17th January – 19th January, 2012.

13. Mahato KK, Kamath SD and Priya M.



- 18th Symposium on Thermophysical Properties, NIST, Boulder, Colorado 80305-3337, USA. June 24-29, 2012.
- 14. Mumbrekar KD, Fernandes DJ, Goutham HV, Sharan K, Vadhiraja BM, Satyamoorthy K, Satish Rao BS.

Sequence variants in DSB repair genes and radiotherapy induced acute normal tissue toxicity in breast cancer patients.

- 'ICRM -2014 Conference' held at King Faisal Specialist Hospital & Research, Riyadh, Saudi Arabia during February 17- 20, 2014.
- 15. Satish Rao BS, Mumbrekar KD, Fernandes DJ, Goutham HV, Sharan K, Vadhiraja BM and Satyamoorthy K.

Predictive significance of DNA double strand break repair on radiotherapy induced acute skin reactions in breast cancer patients.

'ICRM -2014 Conference' held at King Faisal Specialist Hospital & Research, Riyadh, Saudi Arabia during February 17- 20, 2014.

16. Satish Rao BS

DNA double strand break repair pathway plays a significant role in determining the radiotherapy induced normal tissue toxicity among head-and-neck and breast cancer

International Conference on Radiation Biology – ICRB -2014, Institute of Nuclear Medicine and Allied Sciences, Delhi during 11-13, November 2014.

17. Das S, Joshi MB, Satyamoorthy K, Satish Rao BS.

Mitochondria and ionizing radiation: their inter relationship toward cellular dysfuntion.

International Conference on Radiation Biology - 2014 held at INMAS, New Delhi, India during 11-13 November 2014.

18. Nayak AKA, Mumbrekar KD, Satish Rao BS

 γ -H2AX foci analysis in human lymphocytes: A biological tool for assessment of early triage during mass exposure of radiation.

International Conference on Radiation Biology -2014 held at INMAS, Delhi during 11-13 November 2014.

19. **Mumbrekar KD**, Fernandes DJ, Shamaprasada K, Nakayama F, Imai T, Vadiraja BM, Satyamoorthy K, Satish Rao BS

Genetic Variation CD44 Confer Susceptibility to acute skin reaction in breast cancer patients undergoing radiotherapy.

International Conference on Radiation Biology -2014 held at INMAS, Delhi during 11-13 November 2014. (**Oral Presentation**)



National

1. Satish Rao BS

2nd Annual Meeting of Coastal Karnataka Chapter of Society of Biological Chemists (India)

School of Life Sciences, Manipal on 26 October 2013.

2. Prabhu S, Mutalik S, Udupa N, Satyamoorthy K, Satish Rao BS

Synthesis, charecterization and toxicological evaluation of pegylatedsuperparamagnetic iron oxide nanoparticles

6th Bangalore Nano Conference, Bangalore during 4-6, December 2013.

3. Das S, Joshi MB, Satyamoorthy K, Satish Rao BS.

Mitochondrial Damage as a Key Indicator of Mercury Intoxication in Human Fibroblast Cells.

IX National Research Scholars Meet in Life Sciences–2013 at ACTREC, Mumbai, India during 19-20 December 2013.

4. Priya M, Satish Rao BS, Mahato KK

Development and optimization of pulsed laser induced photoacoustic spectroscopy setup for clinical applications.

DAE-BRNS National Laser Symposium (NLS-21), Bhabha Atomic Research Centre, Mumbai, 6-9 February 2013.

5. Prabhu V, Satish Rao BS, Mahato KK.

In vivo autofluorescence technique to monitor the wound healing progression-A preclinical study

DAE- BRNS National Laser Symposium (NLS-21), Bhabha Atomic Research Centre, Mumbai, 6-9 February 2013.

6. Das S, Joshi MB, Satyamoorthy K, Satish Rao BS.

Ionizing radiation induced mitochondrial damage is mediated by oxidative stress and DNA damage.

IV Annual Conference of the Society for Mitochondrial Research and Medicine held at Manipal University, Manipal during 8-9 December 2014.

7. Prabhu V, Rao BSS, Mahato KK

Action of red laser light irradiation on cellular parameters in wounded human skin fibroblasts.

DAE-BRNS National Laser Symposium (NLS-22), at MIT, Manipal University, Manipal, during January 8-11, 2014



8. Prabhu V, Acharya A, Rao BSS, Bharath HR, Mahato KK

Laser induced autofluorescence studies of wound granulation tissues from nonhealing wounds- A clinical study.

DAE-BRNS National Laser Symposium (NLS-22) at MIT, Manipal University, Manipal, during January 8-11, 2014.

9. Priya M, Satish Rao BS, Mahato KK

Prognostic Potential of Photoacoustic Spectroscopy in Breast Tumor Development.

DAE-BRNS National Laser Symposium (NLS-22), at MIT, Manipal University, Manipal, during 8-11 January, 2014

10. Priya M, Satish Rao BS, Ray S, Mahato KK

Photoacoustic Spectroscopy in monitoring breast tumor development in xenograft model.

Manipal Research Colloquium during April 11-12, 2014. (Oral presentation)

11. Manjunath S, Satish Rao BS, Satyamoorthy K, Mahato KK.

Understanding the Footsteps of Protein Unfolding by Laser Induced Autofluorescence DAE-BRNS National Laser Symposium (NLS-22) at Manipal University, Manipal, during January 2014.

12. Priya M, Satish Rao BS, Ray S, Shetty P, Mathew S, Mahato KK

Pulsed laser induced photoacoustic spectroscopy in discriminating normal from breast cancer subject

DAE-BRNS National Laser Symposium (NLS-23) at Sri Venkateswara University, Tirupati, during December 3-6, 2014.

13. Manjunath S, Satish Rao BS, Satyamoorthy K, Mahato KK.

Autofluorescence Based Protein Detection in SDS-TCEP PAGE.

DAE-BRNS National Laser Symposium (NLS 23) at Sri Venkateswara University, Tirupati, during 3-6 December, 2014.

14. Bharath HR, Prabhu V, Chandra S, Satish Rao BS, Mahato KK

Influence of Low Power Lasers in Tissue Regeneration of Burn Injuries in Swiss albino mice

DAE-BRNS National Laser Symposium (NLS-23) at Sri Venkateswara University, Tirupati, during December 3-6, 2014.

Monographs - Nil



- * Chapters in books Nil
- * Edited books 1
- 1. Radio modifiers in Human Health- (Co-edited), Eds. P Uma Devi, KS Bisht and BSS Rao, NISCOM, Delhi, India.
- * Books with ISBN with details of publishers 1
- 1. "Introduction to Radiation Biology" P Uma Devi, Nagarathnum and BSS Rao, McMillan, New Delhi, India
- * Number listed in International Database (For e.g.Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.)
- * Citation Index range / average
- * SNIP: NA
- * SJR : NA
- * Impact Factor range / average 3.7
- * h-index : NA
- 23. Details of patents and income generated : Nil
- 24. Areas of consultancy and income generated:

Cytotoxicity/Genotoxicity/Biophysics

25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad:

Dr. B.S. Satish Rao

- 1. Visiting Scientist, Division of Life Sciences, Research Reactor Institute, Kyoto University, Osaka, JAPAN (June 1999 May 2000).
- 2. Visiting Research Scholar, University of Texas Health Science Center at San Antonio, Texas, USA (July 2000 June 2001).
- 3. UICC International Cancer Technology Transfer Fellowships (ICRETT) & Visiting Faculty, Sylvester Cancer Center, Department of Radiation Oncology, University of Miami School of Medicine, USA (June Aug 2002).
- 4. Visiting Faculty, University of New South Wales, Australia, (2008-2011).
- 5. Visiting Research Fellow: The University of New South Wales, Australia (2008 -2011).
- 26. Faculty serving in
- a) National committees

Dr BS Satish Rao

- ➤ Indian Society for Radiation Biologists (Life Member and Ex. Executive Member)
- ➤ Indian Society of Human Genetics (Life Member)



- ➤ Indian Society for Free Radical Biology (Life Member)
- ➤ Indian Association for Hyperthermic Oncology and Medicine (Member)
- Society for Biological Chemists, India (Life Member)

Dr. Krishna Kishore Mahato

- ➤ Life Member, Laser Spectroscopy Society of India
- ➤ Life Member, Society of Biological Chemist, India (SBCI)
- ➤ Life Member, Society of Mitochondrial Research and Medicine (SMRM)-India

Mr. Kamalesh D Mumbrekar

- ➤ Life Member: Indian Society for Radiation Biology
- ➤ Member: Society for Biological Chemist, India (SBCI)
- b) International committees

Dr BS Satish Rao

International Society for Mangiferin Research (Life member, Vice-general Secretary)

Dr. Krishna Kishore Mahato

Member, American Society of Laser Medicine and Surgery

c)Editorial Boards -

Dr. B. S. Satish Rao - Journal of Medical Physics

d) any other (please specify) - Nil

27. Faculty recharging strategies

All faculty members undergo pedagogy training when they join the department. They are also encouraged to attend conferences, workshops, training programmes to rejuvenate and recharge themselves.

28. Student projects

percentage of students who have done in-house projects including inter-departmental projects - Nil

percentage of students doing projects in collaboration with other universities / industry / institute – Nil

29. Awards / recognitions received at the national and international level by

Faculty

Dr. BS Satish Rao

National:

• Distinguished Alumni Award by Kasturba Medical College Manipal, MAHE, 2004.



International:

- YOUNG SCIENTIST TRAVEL GRANT European Society for Hyperthermic Oncology to attend 12th ESHO conference at Bergen, Norway (1991).
- YOUNG SCIENTIST TRAVEL GRANT award by COSTED-IBN to attend the first Asian Society for Hyperthermic Oncology, Fukuoka, Japan (1996).
- UICC International Cancer Technology Transfer Fellowships (ICRETT) & Visiting faculty, Sylvester Cancer Center, Department of Radiation Oncology, University of Miami School of Medicine, FL 33136, USA (June – Aug 2002).
- Honor role of the Journal of Radiation Research Terasima Award- Best Paper Award for the paper entitled "DNA-PK: the major target for wortmannin-mediated radiosensitization by the inhibition of DSB repair via NHEJ pathway. J. Radiat. Res. 44 (2003) 151-159; by the Japanese Journal of Radiation Research for the year 2003 (Second-author).
- NIH's International training and Research in Environmental and Occupational Health (ITREOH) Fogarty Program Grant to attend workshop on Health Effects on Pesticides, Colombo, Sri Lanka (Sept. 5-9, 2005).
- International Public Health Summer Institute Training Sponsorship by Sparkman Center for Global Health, The University of Alabama at Birmingham, USA (7th July to 1st August 2008)
- International Travel grant support from CCSTDS, Govt. of India & organizers of the 1st International Symposium on Mangiferin held at Nanning, China Participation as an International Expert (2009)
- Paper selected for ASTRO CME for CREDIT: Predictive and prognostic significance of glutathione levels and DNA damage in cervix cancer patients undergoing radiotherapy (Int J of RadiatOncolBiol Phys. 2010; 78:343-9. (doi:10.1016/j.ijrobp.2009.08.014)

Dr Krishna Kishore Mahato

Invited as resource person to the following International Conferences/Workshops:

- Indo-French Workshop in Biomedical Applications of vibrational spectroscopy and Imaging, during 13-15 February 2010 at CRI-ACTREC, Mumbai, India.
- International Conference on Multifunctional Materials (ICMM-2010) during 6-9
 December 2010 at the Department of Physics, Banaras Hindu University, Varanasi,
 India.
- International Workshop on Biomedical Sciences and Technologies (IWBMST 2011), 2-4 March 2011, Anna University, Chennai, India.
- 1st international conference on Physics of Materials and Material-based Device Fabrication (ICPM-MDF-2012) 17-19 January 2012, Shivaji University, Kolhapur, India.
- Eighteenth Symposium on Thermophysical Properties, 24-29 June 2012, NIST, Boulder, Colorado, USA.

Doctoral / post-doctoral fellows

Mr. Goutham HV (Research Fellow)



- Young Scientist Award International Conference on Radiation Biology-2010, at Sri Ramachandra University, Chennai, 15-17 November 2010 for the paper 'Fluorimetric analysis of radiation induced DNA double strand break and repair by a modified neutral filter elution method'.
- ICMR Travel grant (Young Scientist Category) to present paper 'Polymorphisms in DNA double strand break response pathway and its impact on radiosensitivity' at the International Congress of Radiation Research - 2011 held at Warsaw, Poland.
- CICS Partial travel grant (Young Scientist Category) to present paper 'Polymorphisms in DNA double strand break response pathway and its impact on radiosensitivity' at the International Congress of Radiation Research - 2011 held at Warsaw, Poland.

Mr. Akshay Kumar A Nayak (Research Fellow):

Best Poster Award : γ-H2AX Foci Analysis in Human Lymphocytes: A Biological Tool for Assessment of Early Triage During Mass Exposure of Radiation at ICRB 2014 hosted by INMAS, New Delhi, India (Authors: Akshaykumar A. Nayak, Kamalesh D. Mumbrekar, Donald J Fernandes, Satish Rao B. S)

Mr VijendraPrabhu (Research Fellow)

- DST International travel grant for Young Scientist, 2011
- Senior Research Fellowship from ICMR, 2012
- 30. Seminars/conferences/workshops organized and the source of funding (national / international) with details of outstanding participants, if any. – Nil

Actively involved in hosting refresher courses, workshops, seminars, conferences and science camps organised by School of Life Sciences

31. Code of ethics for research followed by the departments

Research at DRT follows strict ethical guidelines of the University and UGC, India. Tissue culture is the preferred method of research, although animal studies are carried out when required, according to the guidelines and approval of the University Ethical Committee. Plagiarism in any form is denounced, while due credit is given to deserving people. No discrimination is practiced based on gender, religion or race.

- 32. Student profile course-wise: Not Applicable, since DRT does not offer courses on its own. It helps the School of Life Sciences and Manipal University in conducting courses
- **33.** Diversity of students: Not Applicable, for reasons as mentioned above (q 32)
- 34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Shubhankar Das (CSIR NET-lectureship 2010 cleared; Roll number 303370; AIR-21/981); GATE 2011 cleared (Roll number BT1143202, AIR- 1878/16425)



35. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|---|
| UG to PG | NA |
| PG to MPhil | NA |
| PG to PhD | NA |
| PhD to Post-Doctoral | NA |
| Employed | 100% of our PhD graduates have got employment |
| Campus selection | through conventional process of application, |
| Other than campus recruitment | interview and selection |
| Entrepreneurs | NA |

36. Diversity of staff

| Percentage of faculty who are graduate | es |
|--|----|
| of the same University | 0 |
| from other universities within the State | 66 |
| from universities from other States | 33 |
| from universities outside the country | 0 |

37. Number of faculty who were awarded PhD, DSc and DLitt during the assessment period - Nil

38. Present details of infrastructural facilities with regard to –

- a) Library
- b) Internet facilities for staff and students
- c) Total number of class rooms
- d) Class rooms with ICT facility
- e) Students' laboratories
- f) Research laboratories

Learning resources of the departments - library, computers, laboratories and other resources: The division has computational facilities with 24 hour internet facility and online access to the central library, Manipal University. The laboratory has facilities such as:

- a) Air conditioned animal house with breeding and rearing facility for mouse strains such as BALB/c and C57BL mice, and Nude mice facilities and expertise for routine anticancer drug screening (using human cancerous cells growing in vitro and transplantable animal tumor models in vivo), toxicological screening activities and these services are also extended to industry, university and institutional requirements.
- b) Tissue culture facility: A dedicated area assigned to tissue /cell culture activities with the basic instrumentations for handling mouse, human normal and cancerous cells for experimentation.



- c) **Irradiation facility:** The ⁶⁰Co tele-therapy facility for gamma irradiation is currently being utilized and in-house FAXITRON CP 160-X-ray irradiation facility for the exposure of cultured cells is on its way of procurement.
- d) **Molecular laboratory**: With basic instrumentations such as PCR, Gel running and documentation along with routine laboratory instrumentation.
- e) **Microscopic facility**: It is equipped with light and fluorescent microscopes with image acquisition and analysis systems.
- f) **Spectroscopy facility**: There are two spectroscopy laboratories with state-of-the-art facilities.

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host university
- 1) Mr Shubankar Das PhD student
- 2) Mr Manjunath S PhD student
- b) from other universities
- 1) Mr Kamalesh D Mumbrekar PhD student
- 2) Ms Suma Prabhu PhD student
- 3) Mr Vijendra Prabhu PhD student
- 4) Ms Mallika Priya PhD student
- 40. Number of post graduate students getting financial assistance from the University
- Nil
- **41.** Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Nil

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Nil – the department does not obtain individual feedback from the following personnel,



but utilizes the feedback provided by them to SOLS and MU.

43. List the distinguished alumni of the department (maximum 10)

| Name | Credentials | |
|---------------------------------|---|--|
| Dr. Goutham HV | Senior Scientist, Strand Life Sciences, Bangalore | |
| Dr. Ravikiran PB | Post-doctoral Researcher, USA | |
| Dr. Kiran Aithal B (2011) | Senior Scientist, Aurigene Discovery Technologies Limited, Bangalore | |
| Dr. Sunil Kumar MR (2011) | Scientist, Novartis Health Care Pvt Ltd, India. | |
| Dr. Archana PR (2011) | Selection Grade Lecturer, MMMC, Manipal. | |
| Dr. Nageshwar Rao B (2011) | Associate Professor, Mamata Medical College, Khammam | |
| Dr. Sudha Kamath (2009) | Associate Professor, MIT, Manipal | |
| Dr. Mallikarjuna Rao KVN (2008) | Asst. Professor, GSL Medical College, Hyderabad | |
| Dr. Venkatesh P (2006) | Director, TotipotentRX Cell Therapy Pvt. Ltd. | |
| Dr. Koti Reddy T (2005) | Sugen Life Sciences (P) Ltd., Hyderabad | |

- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts – Nil
- 45. List the teaching methods adopted by the faculty for different programmes Nil
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Nil
- 47. Highlight the participation of students and faculty in extension activities.- Nil
- 48. Give details of 'beyond syllabus scholarly activities' of the department. Nil
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

The department is part of the quality and environmental management systems of the Manipal University and is certified to be ISO 9001:2008 and ISO 14001:2004 compliant.

- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
- 51. Future plans of the department.
 - > Strengthening the divisional thrust areas of ongoing research activities by the incorporation of advanced technologies in the field of molecular biology.
 - Efforts to increase the research funding from both national and international resources by giving more emphasis on translational research activities.
 - To conduct trainings, workshops and conferences in the thrust areas of our research interests for strengthening the prospects of scientific collaborative activities.

Biophysics:



- Participate actively in different activities of SOLS.
- > Generate sufficient external funding, Government as well as from private sector, to carry out scientific research and to establish the department as one of the recognized centres in the area of Biophysics in India.
- > Initiate new collaborations with well-established research laboratories in India and abroad.
- ➤ Involve more and more people from other departments of the Manipal University in the interdisciplinary research programmes to create research awareness.
- As per requirement, time to time upgrade the syllabus of Physics, Biophysics and any other related sujects/courses.
- > Create a Biophysics programme that supports an interdepartmental PhD programme in materials science and life sciences.
- ➤ Increase the strength of teaching and non-teaching staff

52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths: One of the most nationally & internationally recognized Radiation Biology laboratory; State of the art research infrastructure; excellent animal house facility; Recognized center of excellence in Radiation Biodosimetry

Strong knowledge base, scientific outcomes, infrastructure, Institutional support, Inter and Intra Institutional collaborations in the field of Laser Spectroscopy

Weaknesses: Need for more efforts for human resource development in the field of radiation biology

In the field of Biophysics/Laser Spectroscopy there is less number of faculties, low generation of external funding, weak international collaborations, own teaching programme nil, Centre of excellence nil

Opportunities: Creation of human resources; teaching and research in radiation biology; research focused on delivering practical solutions for radiation exposure/toxicology related health aspects

Challenges: To create further research opportunities and to excel in radiation biology; to be recognized as a top centre of excellence in radiation biodosimetry

Generate more external funding for biophysics-related research, initiate international collaborations, innovative research programmes and academic courses



1. **Name of the Department: Department of Statistics**

2. **Year of establishment:** August 2006

3. Is the Department part of a School/Faculty of the university?

Yes, Part of KMC Manipal

- 4. Names of Programmes/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
 - ➤ M.Sc. Biostatistics
 - > Certificate course in Biostatistics, Epidemiology and Research Methodology
 - > PhD
- 5. Interdisciplinary courses and departments involved Nil
- Courses in collaboration with other universities, industries, foreign institutions,

Executive education program in Biostatistics, conducting at Novartis, Hyderabad

- 7. Details of programmes / courses discontinued, if any, with reasons Nil
- 8. Annual/Semester/Choice Based Credit System

Semester Scheme

9. Participation of the department in the courses offered by other departments

Department teaches various courses of other institution of the university

- Undergraduate and Post Graduate Courses of Allied Health Sciences
- > Manipal College of Nursing
- School of Life Sciences
- School of Regenerative Medicine, Bangalore
- ➤ Postgraduate Program of Manipal College of Dental Sciences
- School of Management
- Master of Public Health
- ➤ Medicine-Kasturba Medical College



10. Number of teaching posts sanctioned and filled (Professors/Associate **Professors/Asst. Professors)**

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professor | 02 | 02 |
| Associate Professors | 02 | 02 |
| Asst. Professors | 03 | 03 |

11. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

| # | Name | Qualification | Designatio n | Specializatio n | No. of year Experience | No. of Ph.D. students guided for the last 4 years |
|----|----------------------------------|---|------------------------------|------------------------------|---------------------------|--|
| 1. | Dr. N Sreekumaran Nair | M.Sc (Statistics), PhD | Professor and Head | Stochastic process | 29 | 11 |
| 2. | Dr. Manjunatha Prasad | M.Sc. (Mathematics), PhD | Professor | Linear algebra | 28 | 03 |
| 3. | Dr. Shreemathi S Mayya | M.Sc. (Statistics), PhD | Assoc. Prof. Senior scale | Tool construction | 32 | 04 |
| 4. | Dr. Binu V. S | M.Sc. (Statistics), PhD | Assoc. Prof. | Statistical genetics | 15 | 02 |
| 6. | Dr. Vasudeva Guddattu | M.Sc. (Statistics),PhD | Asst. Prof. Senior scale | Categorical data modeling | 10 | NIL |
| 7. | Ms. Ashma Dorothy Monteiro | M.Sc. (Statistics) M. Phil (Statistics) | Asst. Prof. Senior scale | Operations research | 09 | NIL |
| 8 | Ms. Nilima | M.Sc. (Statistics) | Asst. Prof. | Categorical Data Analysis | 02 | NIL |

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

- 1. Prof. Sanjay Zodpey, Director, IIPH, New Delhi.
- 2. Dr. M Kumaran, Department of Statistical Sciences, Kannur University campus, Kannur.
- 3. Prof. K. R. Sundaram, Head, Department of Biostatistics, Amrita Institute of Medical Sciences & Research Centre, Kochi.
- 4. Dr. T. E. S. Raghavan, University of Illinois, Chicago.
- 5. Dr. R.B. Bapat, Indian Statistical Institute, New Delhi.
- 6. Prof. R. Balakrishnan Bharathidasan University, Tiruchirapalli, India.
- 7. Prof. Abraham Berman, Technion Israel Institute of Technology, ISRAEL.
- 8. Prof. Rajarama Bhat, Indian Statistical Institute, Bangalore, India.
- 9. Prof. Rajendra Bhatia, Indian Statistical Institute, Delhi, India.
- 10. Prof. Arup Bose, Indian Statistical Institute, Kolkata, India.



- 11. Prof. Steve Haslett, Massey University, New Zeeland.
- 12. Prof. Surender Kumar Jain, Distinguished Emeritus Professor, Ohio University, USA.
- 13. Prof. Andre Leroy, Univerite d'Artois, FRANCE.
- 14. Prof. Arbind Kumar Lal, Indian Institute of technology, Kanpur, India.
- 15. Prof. S.K. Noegy, Indian Statistical Institute, Delhi, India.
- 16. Prof. Sukanta Pati, Indian Institute of Technology, Guwahati, India.
- 17. Prof. Simo Puntanen, University of Tampere, FINLAND.
- 18. Prof. T.E.S. Raghavan, University of Illinois at Chicago, USA.
- 19. S Prof. harad Sane, Indian Institute of Technology, Mumbai, India.
- 20. Prof. Bhaba Kumar Sarma, Indian Institute of Technology, Guwahati, India.
- 21. Prof. Ajith Eqbal Singh, INSA, Senior Scientist, Delhi, India.
- 22. Prof. K.C. Sivakumar, Indian Institute of Technology, Madras, India.
- 23. Prof. Sivarama Krishnan Sivasubramanian, Indian Institute of Technology, Bombay, India.
- 24. Prof. Murali K, Srinivasan, Indian Institute of Technology, Bombay, India
- 25. Prof. Wasin So, San Jose State University, California, USA.
- 26. Prof. V.S Sundar, Institute of Mathematical Sciences, Chennai, India.
- 27. Prof. H. Kulkarni, Indian Institute of technology, Chennai, India.
- 28. Dr. AshwiniMathur, Novartis Heathcare Pvt. Ltd., Hyderabad, India.
- 29. Dr. ViswanathIyer, Novartis Health care Pvt Ltd, Hyderabad.
- 30. Prof. Nagaraj Rao C, Associate Professor, Vijaya College, R.V Road, Bangalore
- 31. Prof. Inge Hutter, Prof. Inge Hutter, University of Groningen, The Netherlands.
- 32. Prof. K. Srinath Reddy, President, Public Health Foundation of India Bernard Lown Professor of Global Cardiovascular Health, Harvard School of Public Health
- 33. Prof. S B Javali, Incharge, Department of Biostatistics & Informatics, SDM College of Dental Sciences & Hospital, Sattur, Dharwad - 580 009
- 34. Dr. Surendra Yajamany, GlaxoSmithKline Pharmaceuticals Embassy Link, Bangalore
- 35. Dr. P Mohanchandran Nair, Professor& Head, Department of Demography, University of Kerala.
- 36. Dr. Anjana, Madras Diabetes Research Foundation, Chennai.



- 37. Dr. Mohan, Director, Madras Diabetes Research Foundation, MDRF, Chennai
- 38. Dr. Fabian Tibaldi, Biostatistics Expert Leader, Glaxo Smith Kine Biologicals, Belgium.
- 39. Dr. Sheela Misra, Professor of biostatistics, University of Luknow, Luknow.
- 40. Dr. Naveen Karkada, Manager Biostatistics, GlaxoSmithKline Pharmaceuticals Embassy Link, Bangalore
- 41. Dr. Babu L. Verma, Professor of Biostatics, ,MLB Medical College/Hospital, University of Jhansi, Uttar Pradesh.
- 42. Dr. Binukumar. B., Assistant Professor, Biostatistics, National Institute of Mental Health and Neuro Sciences, Bangalore.
- 43. Dr. Shrinivas Darak, Faculty of Spatial Sciences, University of Groningen, the Netherlands.
- 44. Prof. Balu. P.S, Professor, Department of Community Medicine, JJM Medical College, Davanagere.
- 45. Dr. Anjana Dube, Director, Data processing Centre Bangalore, Ministry of Statistics and Programme implementation.
- 46. Shri. H. Borah, Deputy Director General Social Statistics Division, Central Statistics Office, Ministry of Statistics and Programme implementation, New Delhi
- 47. Dr. K. Thennarasu, Professor, Department of Biostatistics, NIMHANS, Bangalore -560029.
- 48. Mr. Shashidhar Joshi, Clinical Statistics, Quantitative Sciences India (QSI), Glaxo SmithKline Pharmaceuticals Limited.
- 49. Mr. Ashim Dhar, Principal Consultant, Tata Consultancy Services.
- 50. Dr. Ashutosh Gupta, PhD, Biostatistics and Programming Manager, QSIRD Projects Clinical Platforms & Sciences, GSK.
- 51. Dr. P Venkatesan ,Professor, Faculty of Research,Department of Community Medicine, Sri Ramachandra Medical College & Research InstituteSri Ramachandra University, Porur, Chennai-600 116.
- 52. Dr. Williams, O. Dale, Professor & Chair, Biostatistics, Robert Stempel College of Public Health and Social Work, Florida.
- 53. Dr. Elissa Ladd, Associate ProfessorMGH Institute of Health Profession, Boston MA, USA.
- 54. Prof. K.R Thankappan, Professor and Head, Achutha Menon Centre for Health Sciences Studies, Trivandrum, Kerala.
- 55. Prof. K. Srinath Reddy, President, PHFI, New Delhi.



- 56. Dr. Rajmohan, Officer-in-charge, Institute of Occupation Research, ICMR, Bangalore.
- 57. Dr. Kenneth C. Earhart Shaikh Shah Hossain, Centers for Disease Control and Prevention, India.
- 58. Dr. Shaikh Shah Hossain, Centers for Disease Control and Prevention, India,
- 59. Dr. Ajay Bailey University of Groningen, The Netherlands.
- 13. Percentage of classes taken by temporary faculty programme-wise information Nil
- 14. Programme-wise Student-Teacher Ratio

M.Sc. Biostatistics

6:1

Certificate course in Biostatistics, Epidemiology and Research Methodology

4:1

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

No. of administrative staff:

Sanctioned: 03 Filled: 03

- 16. Research thrust areas recognized by funding agencies
 - > Evidence based public health
 - > Epidemiology, Systematic review and meta analysis
 - ➤ Stochastic modeling for non-communicable diseases
 - ➤ Biostatistics, Error analysis
 - > Public health modeling
 - Statistical Genetics
 - ➤ Matrix Methods
 - ➤ Generalized Inverses
 - Covariance Matrices
 - Combinatorial Matrix Theory
 - ➤ Measurement and evaluation in education
 - Quality assessment in higher education
 - > Spatial Epidemiology.
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.



No. of faculty with ongoing projects from national funding agencies: 02 International funding agencies: 01

a) National

Total grant received: 24, 39,528/-

| # | Title of Project | Funding Agency | Amount | Date of sanction and Duration |
|----|---|-------------------|---------------|-------------------------------|
| 1. | "PHD Students' Contribution to the Advancement of Knowledge: A Study of Teachers in Colleges and Universities of Karnataka State". | ICSSR | 4,32,688/- | May, 2012 2 years |
| 2. | A prospective multi centre, surgeon controlled non-randomized study of the role of early containment in children with onset of Legg-Calve-Perthes' disease between 6 and 8 years of age | Nil | | July 2012 5 years |
| 3. | ICMR Virology Network Laboratory Grade-I at Manipal | ICMR | 4,96,31,900/- | March, 2010 5 years |
| 4. | Aetiology of Acute Encephalitis Syndrome (AES) in India and Establishment of ICMR sample banks of AES cases" – a multisite prospective initiative | ICMR | 1,04,76,449/ | March, 2011 - 3 years |
| 5. | Molecular epidemiology of rotavirus diarrhea in children under five in Southwest India- A hospital and laboratory based study | ICMR | 38,75,688/- | March 2012 3 years |
| 6. | Promoting Research – Perception and Practices in educational institutions of India – A Cross Sectional Study | DST | 20,06,840/- | August 8,2014 02 Years |
| 7. | Distribution of non-polio Enterovirus serotypes in children with Hand Foot and Mouth Disease(HFMD)in Kerala, Karnataka and Goa States | ICMR | 49,72,716 | 03 years |

b) International

Total grant received: 61, 67,543.4/-

| # | Title of Project | Funding Agency | Amount | Date of sanction and Duration |
|----|--|-------------------|-----------|-------------------------------|
| 1. | Determinants of Neonatal Pneumonia and Factors associated with mortality due to Neonatal Pneumonia "A Systematic Review combined with Qualitative Research Approach" | INCLEN | 45,80,640 | 02 years |
| 2. | Systematic Review: The most effective rehabilitation measures for NCD-related disability that have been applied across different contexts that can result in improved functioning (i.e. reduce impairment, improve activities and participation) | WHO | \$24,840 | September 5,2014 1Year |



| or at least maintain or prevent loss of | | |
|---|--|--|
| functioning. | | |

18. Inter-institutional collaborative projects and grants received

a) All India collaboration b) International

| # | Title of Project | Funding | Amount | Date of sanction |
|----|---|---------|---------------|------------------------------|
| | · · | Agency | | and Duration |
| 1. | A prospective multi centre, surgeon controlled non-randomized study of the role of early containment in children with onset of Legg-Calve-Perthes' disease between 6 and 8 years of age | Nil | | July 2012 5 years |
| 2. | ICMR Virology Network Laboratory Grade-I at Manipal | ICMR | 4,96,31,900/- | March, 2010 5 years |
| 3. | Aetiology of Acute Encephalitis Syndrome (AES) in India and Establishment of ICMR sample banks of AES cases" – a multisite prospective initiative | ICMR | 1,04,76,449/ | March, 2011 - 3 years |
| 4. | Molecular epidemiology of rotavirus diarrhea in children under five in Southwest India- A hospital and laboratory based study | ICMR | 38,75,688/- | March 2012 3 years |
| 5. | Promoting Research – Perception and Practices in educational institutions of India – A Cross Sectional Study | DST | 20,06,840/- | August 8,2014 02 Years |
| 6/ | Distribution of non-polio Enterovirus serotypes in children with Hand Foot and Mouth Disease(HFMD)in Kerala, Karnataka and Goa States | ICMR | 49,72,716 | 03 years |
| 7. | Determinants of Neonatal Pneumonia and Factors associated with mortality due to Neonatal Pneumonia "A Systematic Review combined with Qualitative Research Approach" | INCLEN | 45,80,640 | 02 years |
| 8. | Systematic Review: The most effective rehabilitation measures for NCD-related disability that have been applied across different contexts that can result in improved functioning (i.e. reduce impairment, improve activities and participation) or at least maintain or prevent loss of functioning. | WHO | \$24,840 | September 5,2014 1Year |

Total grant received: 7,25,50,496.4/-

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.;

| ш | Title of Duciost | E. din a | A 4 |
|---|------------------|----------|--------|
| Ŧ | Title of Project | Funding | Amount |



| | | Agency | Rs. |
|----|--|--------|------------|
| 1. | "PHD Students' Contribution to the Advancement of Knowledge: A Study of Teachers in Colleges and Universities of Karnataka State". | ICSSR | 4,32,688/- |
| 2. | Promoting Research – Perception and Practices in educational institutions of India – A Cross Sectional Study | DST | 23,12,880 |

Total grants received: 14, 02,000/-

20. Research facility / centre with

• state recognition

Nil

• national recognition

Nil

• international recognition:

Yes, Cochrane public health group satellite Centre's.

21. Special research laboratories sponsored by / created by industry or corporate **bodies**

Nil

22. Publications:

| D | etails | 2012 | 2013 | 2014 |
|-------------------|---------------|------|------|------|
| Publications | | 18 | 24 | 27 |
| Books | | | 01 | 01 |
| Monographs | | | - | - |
| Chapters in books | | | 02 | - |
| Edited book | | | 1 | 1 |
| Conference | International | 1 | 5 | 5 |
| presentations | National | 1 | 3 | 4 |

Number of papers published in peer reviewed journals (national/international)

2012: (18)

1 SyalNeeru, Nair NS, LavanyaRai – Iron Sucrose Versus Oral Iron Therapy in Pregnancy Anemia; Indian Journal of Community Medicine; Issue 4/ Vol. 37/ October 2012

2 AttibelePalakshaManjunath, NidhikaChhabra, ShivarudraiahGirija, Nair NS - Pain relief in laparoscopic tubal ligation using intraperitoneal lignocaine: a double masked randomized controlled trial.



European Journal of Obstetrics & Gynecology and Reproductive Biology 2012.06.035.

BhageerathyReshmi, Nair NS, Sabu. K.M, B. Unnikrishnan –

Awareness, Attitude and their correlates towards health insurance in an urban south Indian population.

Management in health XVI/1/2012; pp.32-35

4 S. Geena Mary; Nair NS; J Roopalekha –

Analysis of the satisfaction profile of patients using a hospital based health insurance scheme: a cross sectional study;

Management in health XVI/2/2012; pp. 32-35

5 KM Prasad; G. Sudhakara and H.S. Sujatha-

Partition of Graph with its Complete Sub-graphs, Advances and Applications in Discrete Mathematics, To appear in July 2012

- 6 Ravindra B Bapat, Steve Krirkland, KM Prasad, SimoPuntanen
 - Lectures on Matrix and Graph Methods 2012 at Manipal University Press, Manipal
- 7 NM Nandini, SM Nandish, P Pallavi, SK Akshatha, AP Chandrashekhar, S Anjali, MuraliDhar –

Manual Liquid Based Cytology in Primary Screening for Cervical Cancer – a cost Effective Preposition for Scarce Resource Settings.

Asian Pacific Journal of Cancer Prevention, Vol 13. 2012

BakthavathsalamSreenivasSudha, Mysore ShikanthSunitha. SanthebatchahalliMahalingappaNataraj, MuraliDhar -

A study of reduction in breath-holding time in smokers and recovery among ex-smokers in bus depot workers.

International Journal of Health & Allied Sciences. Vol. 1, Issue 3, July -Sept. 2012.

9 VedapriyaDandeRajasekar, LavanyaKrishnagopal, Anuj Mittal, Zile Singh, Anil J Purty, VS Binu, Iillayabharathi-

Prevalence and risk factors for hypertension in a rural area of Tamil Nadu, South India:

Indian journal of medical specialties 2012;3(1):12-17

10 VS Binu V.S., Nair N.S., Manjunatha Prasad K., Kalesh K. M.



Estimation of Uncertainty Associated with Intensity Ratio in CDNA Microarray Experiments. Research & Reviews:

A Journal of Statistics 2012, 2(2).

11 DeekshaPandey, VidhiVanya, SauravBhagat, VS Binu, JyothiShetty -Awareness and attitude towards human papillomavirus (HPV) vaccine among medical students in a premier medical school in India.

PLOS One 2012, 7(7), e40619.

12 SH Subba, V.S. Binu, M.S. Kotian, N. Joseph, AB Mahamood, N. dixit, A George, P. Kumar, S. Acharya, P. Reddy –

Future specialization interests among medical students in southern India. The National Medical Journal of India; vol. 25, No. 4. 2012

13 Guddattu V, Rao A.

On the use of marginal and conditional likelihood method for estimating inflated parameter in Zero Inflated Poisson Regression model.

ProbStat Forum 2012; 4: 10–20

14 Prabhu V, Rao S B S, Chandra S, Kumar P, Rao L, Guddattu V, Satyamoorthy K, Mahato K K.

Spectroscopic and histological evaluation of wound healing progression following Low Level Laser Therapy (LLLT).

J Biophotonics. 2012 Feb;5(2):168-84;

15 Aithal VU, Bellur R, John S, Varghese C, Guddattu V.

Acoustic Analysis of Voice in Normal and High Pitch Phonation: A Comparative Study.

Folia PhoniatrLogop. 2012; 64 (1):48-53.;

16 Devi Elsa Sanatombi, PrabhuRavindra, Bhanumathi PP, SequieraLeena, MayyaSreemathi S, Bairy KL, Manu Mohan K –

Identification of Health Problems of Patients Undergoing Hemodialysis Using Self Care Deficit Theory and Application of Nursing Process Approach Care International Journal of Nursing Education. Jan. - June 2012. Vol. 4, No.

17 Bhaktha G, Nayak BS, Mayya S, Shantaram M,

Is HbA1c a risk factor for type 2 diabetic subjects without macro and micro vascular complications? Arch PhysiolBiochem. 2012 Feb 2.

PMID:22295973 [PubMed]



18 S. Geena Mary", Nair N.S, J. Roopalekha,

A Study of factors influencing the acceptability, Utilization Pattern and cost benefit analysis of a hospital based health insurance scheme: A cross sectional study

2013: (24)

1. Ms. Seena Biju, Dr. N. Sreekumaran Nair-

An Internal Audit of Student Satisfaction using Multilevel Models Based on Prioritized Explanation variables.

International Journal of Information Processing & Management. Vol 4; page 15-28; January 2013. Indexed, International.

2. Karanth L, Jafaar S H, Kanagasabai S, Nair N S, Barua A-

Anti D administration after spontaneous miscarriage for preventing Rhesus alloimmunisation

The Cochrane Library. Issue 3, 1-17, March 2013. **Indexed, International.**

3. Karanth L, Kanagasabai S, Nair N S, Barua A

Desmopressin acetate (DDAVP) for preventing and treating acute bleeds during pregnancy in women with congenital bleeding disorders.

The Cochrane Library- page 1-10; April 2013, International, Indexed.

4. Pallavi Upadhyaya, Mohanan P, K Manjunatha Prasad-

Barriers to adoption of B2B e-marketplaces: an empirical study of Indian manufacturing MSMEs

Review of Integrative Business & Economics - Rev. Integr. Bus. Econ. Res. Vol 2(1). **International, Indexed.**

5. K Manjunatha Prasad, KS Mohana-

Core-EP inverse; Linear and Multilinear albegra, 2013; Taylor & Francis.

Vol. 62, No. 6, 792–802, (2014)

http://dx.doi.org/10.1080/03081087.2013.791690, Indexed,

International.

6. Maxie Andrade, Anice George, Shreemathi Mayya-

Verbal and Numerical aptitude of Graduate Nursing Students At Entry Level; GRA.

Global Research Analysis; Volume 2; Issue 3. Indexed, International.

7. Maxie Andrade, Anice George, Shreemathi Mayya



Measurement of Caring: An ICE Berg Phenomenon;

Volume 2; Issue 3; Paripex- Indian Journal of Research, International, Indexed.

8. Giri DK, Kundapur PP, Bhat GS, Bhat KM, Guddattu Vasu-

Periodontal Disease and obesity in an Indian population.

Nepal Journal of Medical Sciences; Volume 02, Number 02, July-December 2013; page: 144 – 148. **Indexed, International**.

9. Sudhir, Deepa.K, Ashok N.C, Murali Dhar

Factors Determining Quality Of Life of Geriatric Patients with HIV/AIDS: A Cross Sectional Study in South India.

IOSR Journal of Pharmacy, Volume 3, Issue 9 (October 2013), Page: 63-67 Indexed, International.

10. Sudhir, Deepa.K, Ashok N.C and Murali Dhar

A Study to Assess Knowledge and Practice in Relation to Universal Precautions and Awareness Regarding Post-Exposure Prophylaxis for HIV Among Interns of A Medical College in Mysore District, South India.

International Journal of Recent Scientific Research - Vol. 4, Issue, 10, pp.1554-1557. Indexed, International.

11. Shivananda Kalludi, Ravindra Maradi, Murali Dhar, Raghavendra Babu, Manjunath Sathyanarayanachar -

Introducing Physiology Practical Demonstration in Course Curriculum for the First Year Nursing Students

Journal of Clinical and Diagnostic Research. 2013 Sept, Vol-7(9): 1989-1991Indexed, International.

12. Elsa Sanatombi Devi, Shreemathi S Mayya, Bairy KL, Anice George, Manu Mohan K -

Comparative analysis of the Outcome of two teaching - learning approaches adopted for teaching pharmacology -

International Journal, indexed of Nursing Education. July - December 2013, Vol. 5, No. 2. Indexed, International.

13. Jyothi Chakrabarty, M.S. Vidyasagar, Donald Fernandes, Vinutha Bhat, Nagalakshmi, Ganapathi Joisa and Shreemathi S Mayya –

Effectiveness of Pranayama on the Levels of Serum Protein thiols and Glutathione in Breast Cancer Patients Undergoing Radiation Therapy: A Randonmized Controlled Trial.



Indian J Physiol Pharmacol 2013; 57(3): 225 – 232 indexed, national

14. K. Manjunatha Prasad, K.S. Mohana, Y Santhi Steela –

Matrix Partial Order associated with Space Preorder, "Combinatorial Matrix Theory and Generalized Inverses of Matrices" Eds. Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad and Simo Puntanen, SPRINGER India.

2013 195 226. DOI: 10.1007/978-81-322-1053-5 17 (http://dx.doi.org/10.1007/978-81-322-1053-5_17)

International, Indexed.

15. Mrs. Maxie Andrade, Dr. Shreemathi Mayya-

Nurses- Let your patient's experiences your value. International Journal, Indexed Vol 2, Nov 2013

16. Mrs, Maxie Andrade., Dr. Anice Georeg, Dr. Shreemathi Mayya, Measurement of caring: An ICE Berg Phenomenon.

Vol 2 March 2013. International Journal, indexed.

- 17. Mrs, Maxie Andrade., Dr. Anice Georeg, Dr. Shreemathi Mayya Verbal and Numerical aptitude of graduate nursing. Vol 2 March 2013, International journal, indexed.
- 18. Kelvin Peter pais, ganesh Shenoy Panchmal, Rekha Shenoy, Rouchelle Tellis, Jane M Jacob. Rekha PD, Praveen Jodalli, Ashma Moteiro., -Comparison of medicine quality of the generic formulation of amoxicillin

provided by the government of Karnataka with marketed brands. A public Health prospective, International journal, indexed Vo 23 (1) Nov-

Dec 2013.

19. Sunil D. Kumar, Santhosh A. Kumar, Jayashree v. Pattankar, Srinivas B. Reddy, Murali Dhar-

Health Status of the prisoners in a central jail of south India,

Indian Journal of Physiological Medicines. Vol 35 Oct-Dec 2013. International, Indexed.

20. Kavitha Saravu, V. Preethi, Rishikesh Kumar, Vasudev Guddattu and Anantha Krishna Barkur,

Determinants of ventilator associated pneumonia and its impact on prognosis: A tertiary care experience,

Indian Society of critical care medicine, volume 17 November December 2013 (from 337-342). **National, Indexed**



21. Dr. Sureshramana Mayya, Ms. Hemaltha Kidiyor and Dr. Shreemathi Mayya:

Economic development of woman through home based business

A study of Udupi Taluk. Full article, International, Indexed.

22. Ravindra B. Bapat, Steve Kirkland K. Manjunatha Prasad, and Simo Puntanen

Combinatorial Matrix Theory and Generalized Inverses of Matrices

(ISBN: 978-81-322-1052-8 (Print) 978-81-322-1053-5 (Online)) SPRINGER India 2013. DOI 10.1007/978-81-322-1053-5.

23. N. Eagambaram, K. Manjunatha Prasad, and K.S. Mohana,

Partial Order on Matrices and Column Space Decompositions

Electronics Journal of Linear Algebra, Vol 26, 795-815 (2013).

24. Lasrado S, Prabhu P, Kakria A, Kanchan T, Pant S, Sathian B, Gangadharan P, Binu VS, Arathisenthil SV, Jeergal AP, Luis NA and Menezes RG

Clinicopathological profile of head and neck cancers in the western development region, Nepal: A 4-year snapshot

Asian Pacific Journal of Cancer Prevention 2012;13 (12): 1-4

- **2014:** (27)
- 1. Sreekumaran Nair, Suma Nair

Demystifying Systematic Reviews

Published in Manipal Research Review Volume 1, Issue 2(ISSN: 2393-9397)

2. Sreekumaran Nair N, Ravishankar N, Melissa Glenda Lewis-

Role of systematic reviews and meta-analysis in evidence based health care Journal of Basic and clinical Research, Kamineni Institute of Medical Sciences, Andhra Pradesh.

Vol (1) 2014, **Indexed-National.**

3. Mannat Mohanjeet Singh, Shradha S. Parsekar, Sreekumaran N. Nair-

An Epidemiological Overview of Child Sexual Abuse

Journal of Family medicine and primary Care

October 2014: Volume 3: Issue 4. Indexed-National



4. N. Ravishankar, Melissa Glenda Lewis, Anusha Mujja, Suma Nair N. Sreekumaran Nair

Complexity in public health interventions e Stakeholders' perspective- A qualitative analysis.

Clinical Epidemiology and Global Health

2 0 1 4) 1-5(Accepted 6 August 2014), Indexed-International.

5. Ashrita Sarana, Bhumika.T.V.b, N.Sreekumaran Nairc,d

Policy prescription from systematic review evidence on conditional cash transfer for improving uptake of health interventions in low and middle income countries

Global Journal of Medicine and Public Helath

Vol.3, No.5 December 2014. gjmedph.org, Indexed-International

6. K. Manjunatha Prasad, G. Sudhakara, H. S. Sujatha and K. V. Soumya

Matrix Product (Module-2) Of Graphs

Indian Journal of Pure applied mathematics

December 2014, 851-860 ©. Indexed-International.

7. Anjali Ollapally, Prithi Jain, Ashma Monteiro

Effect of Oral Premedication on Sub Arachnoid Block for Elective Lower **Limb Surgeries**

International Journal of Health Sciences & Research (www.ijhsr.org) 86 Vol.4; Issue: 11; November 2014. Indexed-Internatioanl.

8. Harish Rotti, Ritu Raval, Suchitra Anchan, Ravishankara Bellampalli, Sameer Bhale, Ramachandra Bharadwaj, Balakrishna K. Bhat, Amrish P. Dedge, Vikram Ram Dhumal, G. G. Gangadharan, T. K. Girijakumari, Puthiya M.Gopinath, Periyasamy Govindaraj, Swagata Halder, Kalpana S. Joshi, Shama Prasada Kabekkodu, Archana Kamath, Paturu Kondaiah, Harpreet Kukreja, K. L. Rajath Kumar, Sreekumaran Nair, S. N. Venugopalan Nair, Jayakrishna Nayak, B. V. Prasanna, M. Rashmishree, K. Sharanprasad, Kumarasamy Thangaraj, BhushanPatwardhan, Kapaettu Satyamoorthy, and Marthanda Varma Sankaran Valiathan:"

Determinants of Prakriti, the Human Constitution Types of Indian Traditional Medicine and its Correlation with Contemporary Science

J Ayurveda Integr Med. 2014 Jul- Sep;

Vol 5(3): 167–175. **Indexed-National**



9. Prathap MB, Pramod K, Rajesh K, Sanu SJ, Dinesh R, Binu VS and Kalesh MK

A novel method for blood volume estimation using trivalent chromium in rabbit models.

Indian Journal of Plastic Surgery 2014;

Vol- 47(2): 242-248.May-August 2014, Indexed-International

10. Binu V. S, Shreemathi S. Mayya, Murali Dhar

Some basic aspects of statistical methods and sample size determination in health science research.

Journal of AYU A2014 | Vol 35 | Issue 2. Indexed-International

11. Jyothi Chakrabarty, Vidyasagar MS, Donald Fernandes, Ganapathi Joisa, Prabha Varghese, Sreemathi

Effectiveness of pranayama on cancer-related fatigue inbreast cancer patients undergoing radiation therapy: A randomized controlled trial

12. Nagaraja M. Phani, Vasudeva Guddattu, Ravishankara Bellampalli, Venu Seenappa, Prabha Adhikari, Shivashankara K. Nagri, Sydney C. D Souza, Gopinath P. Mundyat1, Kapaettu Satyamoorthy, Padmalatha S. Rai

Population Specific Impact of Genetic Variants in KCNJ11Gene to Type 2 Diabetes: A Case-Control and Meta-Analysis Study

Case-Control and Meta-Analysis Study of KCNJ11 Gene Variants in T2D: September 2014 | Volume 9 | Issue 9 | e107021, Indexed-International.

Muguregowda 13. Thittamaranahalli Honnegowda, Pramod Padmanabha Udupa1, Pragna Rao1, Siddhartha Bhandary2, Krishna Kumar Mahato3, Anurag Sharan, Shreemathi S. Mayya

Effect of limited access dressing on hydroxyproline andenzymatic antioxidant status in non-healing chronic ulcers

Indian Journal of Plastic Surgery May-August 2014

Vol 47 Issue 2. Indexed-International.

14. Nandi D. Siddesh, MS Orth, FRCS, Hitesh Shah, MS Orth, Ste'phane Tercier, MD, Harish Pai, MS Orth, Sreekumaran Nair, PhD, w and Benjamin Joseph, MS Orth, MCh Orth

The Sphericity Deviation Score: A Quantitative Radiologic Outcome Measure of Legg-Calve' Perthes Disease Applicable at the Stage of Healing and at Skeletal Maturity:

A Quantitative Radiologic Outcome Measures



vol34 (5), July/August 2014, Indexed-International.

15. Ramachandra Kamath, Subhashisa Swain, Sanjay Pattanshetty, and N Sreekumaran Nair

Studying Risk Factors Associated with Human Leptospirosis:

Journal of Global Inflections Diseases.

Vol 6(1): 3–9. 2014 Jan-Mar; International-Indexed

16. Gupta S.K, Pratiba P.K, Bhat K.M, Vasudev Guddattu

Non-replaced Mandibular First Molars and Temporomandibular Joint Dysfunction

Vol (3) January-June 2014.

17. N. Ravishankar a, Anusha Mujja b, Melissa Glenda Lewis a,N. Sreekumaran Nair

A tool to measure complexity in public health interventions

Clinical Epidemiology & Global Health (2014).

Vol 1-7April, 2014, International-Indexed

18. Radhakrishnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma, Vasudeva Guddattu, Naren Ramanlal Pate, Manju Varghese, Poornima Pulagam

Evaluating the effects of combination antiretroviral therapy regimens and development of adverse drug reactions in Indian human immunodeficiency virus positive patients

Saudi Journal for Health Sciences - Vol 3, Issue 2, May-Aug 2014, Indexed-International.

19. Preethy D, Souza, Anice George, Sreekumaran Nair, Judith Noronha, Vishnu Rejith, B. Unnikrishnan, Shivanada Bhat

Resourses for evidence- based health care: accessibility and availability

Journal of Education and practice:

ISSN 2222- 1735 (paper) ISSN 2222 - 288X (Online), Vol 5. No. 7, 2014.International-Indexed

20. Dr. Monica Charlotte Solomon, Dr. M S Vidyasagar, Dr. Donald Fernandes, Dr. Vasudeva Gudattu

Clinico – Pathological correlation of the expression of cycline D1 and Bcl – 2 in oral squamous cell carcinomas – A Tissue Microarray study

ISSN No. 2277-8179: International journal of scientific research:



ISSN Directory, Paris. - Page 64-68. Impact factor – 0.3317 Volume 3, issue 2 Feb 2014. - Indexed - International.

21. Ahamed Shafeeq B M, Dr Binu VS

Spatial Patterns of Crimes in India using Data Mining Techniques

ISSN: 2277-3754 International Journal of Engineering and innovative Technology

(IJEIT- Volume 3, Issue II, May 2014. Indexed - International.

22. Sundar Kumar Veluswamy, Arun G Maiya, Suma Nair, Vasudev Guddattu , N Sreekumaran Nair, Sudha vidyasagar

Awareness of chronic disease related health benefits of physical activity among residents of a rural south Indian region; A cross – sectional study

International Journal of behavior nutrition physical activity-Vol11 (1), Feb2014, Indexed International.

23. Mrs. Maxie Andrade, Dr Shreemathi Mayya, Dr. Anice George

Academic performance and nursing aptitude: A Correlation

International Journal of Scientific

ISSN director pairs. Impact factor 1.865- Vol 3- Indexed – International

24. Geetha Bhakta, Shivananda Nayak, Shreemathi Mayya, Manjula Shantaram Scenario of Anthropometric variable with Leptin in Diabetic Subjects free from Micro and Macro Vascular Disease

Research Journal of Pharmaceutical, Biological and chemical scinces -May-June 2014.

ISSN: 0975 – 8585- Orginal – **Indexed– International** – 0.35 (Indexed in Scopus, Elsevier, Google scholar)

25. Ashton Bionel D' Souza, Nichelle Mrinali Saldanha, Ashma Dorothy Monteiro and Harshavardhan H

Comparison of Intrathecal Hyperbaric 0.5% Bupivacaine, Isobaric 0.5% Levobupivacaine and Isobaric 0.75% Ropivacaine for lower abdominal surgeries.

International Journal of Health Science and Research

Indexed-International. (Vol 4, January 2014 (22-29).

26. Geetha Bhaktha, B Shivananda Nayak, Shreemathi Mayya, and Manjula Shantaram



Adiponectin levels in diabetic subjects without any pre-existing micro and macrovascular complications.

Asian Journal of Biochemical and Pharmaceutical Research

Issue 2 (Vol. 4) 2014 ISSN: 2231-2560 CODEN (USA): AJBPAD.

27. Maxie Andrade, Shreemathi S Mayya, Anice George

Assessment of Nursing Aptitude on Entry to Nursing Programme: Can it be Assessed?

International Journal of Nursing education.

Monographs

Nil

Chapters in Books

- 1. K Manjunatha Prasad, K S Mohana, and Y Santhi Sheela. Matrix Partial Order associated with Space Preorder, "Combinatorial Matrix Theory and Generalized Inverses of Matrices" Eds. Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad and Simo Puntanen, SPRINGER India, 2013 p 195 – 226. DOI: 10.1007/978-81-322-1053-5_17 (http://dx.doi.org/10.1007/978-81-322-1053-5_17)
- 2. K Manjunatha Prasad, G Sudhakara, H S Sujatha, and M Vinay. Matrix Product of Graphs, "Combinatorial Matrix Theory and Generalized Inverses of Matrices" Eds. Ravindra B. Bapat, Steve Kirkland, K. Manjunatha Prasad and Simo Puntanen. SPINGER India 2013, p 41 – 56. DOI: 10.1007/978-81-322-1053-5_4 (http://dx.doi.org/10.1007/978-81-322-1053-5_4

Edited Books

- 1. Steve Kirkland K. Manjunatha Prasad, Sukanta Pati and Simo Puntanen (Eds), Linear Algebra with Applications (ISBN: 978-93-82460-20-6), Manipal University Press, December 2014.
- 2. Ravindra B. Bapat, Steve Kirkland K. Manjunatha Prasad, and Simo Puntanen (Eds), Combinatorial Matrix Theory and Generalized Inverses of Matrices, (ISBN: 978-81-322-1052-8 (Print) 978-81-322-1053-5 (Online)) SPRINGER India 2013. DOI 10.1007/978-81-322-1053-5.

23. Details of patents and income generated:

Nil

24. Areas of consultancy and income generated



Areas of consultancy: Statistics, Epidemiology and Research Methodology

Dept. faculty runs a consultancy centre which provide consultancy in Research design, data processing, statistical analysis and use of various statistical packages for the benefit of research scholars, Graduates, Post graduates & Faculty members. Center provide consultancy for Research design, data analysis, report writing, also provide guidance PhD scholars, Conduct summer courses for research student & contribute to the research committee in evaluating PhD Protocols, interim reports etc.

Revenue generated: These Services are provided free of cost.

25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad

National: 07 (Invited to conduct the Workshops/Training Program.etc.)

International: 01

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Dr. N Sreekumaran Nair

- Editorial Board member, scientific report, Nature group of publication.
- Director, Cochrane Public Health group South Asian satellite and Public Health Evidence South Asia (PHESA)
- ➤ Coordinator, South Asian Cochrane Network (SACN), Manipal site, Manipal
- > Statistical editor, Cochrane collaboration Public Health Review Group.
- > Statistical editor, Cochrane Collaboration Acute Respiratory Infection Group
- ➤ Member, task force, ICMR
- Member, curriculum committee, AYUSH PG programme
- Reviewer, Indian journal of Medical Research
- > Steering committee member, Cochrane collaboration, South Asia Network
- Member, Developing country stipend committee, Cochrane Collaboration
- ➤ Member, Executive Committee of Indian Society for Medical Statistics
- > Fellow of Academy of General Education (FAGE), Manipal, India
- Member, Institutional Research committee, Manipal University, Manipal
- > General Secretary, International Biometric Society, Indian region
- Fellow, Indian Society for Medical statistics FSMS, Co-Chaired 22nd Cochrane Colloquium

Dr. K Manjunatha Prasad

- ➤ Electronics Journal of Linear Algebra(Special Editor)
- ➤ International Journal of Fuzzy Mathematics Archives
- Research & Review: Journal of Statistics, STM Journal



- > Editor Journal of RRJS
- > National pool of resource person for Central university of Kerala
- > Reviewer NDS
- ➤ Reviewer Linear & multi linear algebra
- ➤ Reviewer- ELAS

Dr. Binu V S

- Member of Scientific editors for the Journal of Medicines Use in Developing Countries, published by Discipline of Social and Administrative Pharmacy, School of Pharmaceutical Sciences, University Sains Malaysia, Malaysia
- > Statistical advisor for International Journal of Physiotherapy & Rehabilitation
- Member of International Biometric Society, Indian region.
- Reviewer for Indian Journal of Medical Research.
- Member in Board of Studies for Allied Health Science PG courses of Manipal University.
- Member in Board of Studies for M.Sc. Biostatistics Course of Manipal University.

Dr. Vasudeva Guddattu

Reviewer - Indian Journal of Medical Research

Ms. Ashma Dorothy Monteiro

- > Reviewer Indian Journal of Medical Research
- Member Board of Studies, Department of Statistics, St. Agnes College (Autonomous) Mangalore.

27. Faculty recharging strategies

- > Internal training
- > External training
- ➤ Nominating for conferences
- **➤** Workshops
- > Seminars
- > Symposiums etc.

28. Student projects

> percentage of students who have done in-house projects including interdepartmental projects-61%



> percentage of students doing projects in collaboration with other universities / industry / institute - 39%

29. Awards / recognitions received at the national and international level by

Faculty

- > Dr. N. Sreekumaran Nair awarded T.M.A Pai endowment chair for systematic review evidence in public health for the second consecutive year.
- > Dr. Shreemathi S Mayya awarded Presented a paper entitled 'Publications of dissertations: Quality, Quantity and the Associated Factors' during the 2nd International Conference of Higher Education Research on February 25-26, 2014 at the Ritz-Carlton, Kuala Lumpur, Malaysia and received best paper award.

Doctoral / post doctoral fellows

- Mr. Ravishankar awarded "Developing Countries Stipend" to attend 22nd Cochrane Colloquium at Hyderabad.
- Ms. Melissa Lewis received Anne Anderson award during 22nd annual Cochrane Colloquium held in Hyderabad.
- Ms. Melissa selected for the winter school on Bayesian analysis organized by the applied statistics unit.
- > Dr. Preethy D' Souza was awarded the second best research paper in the "International conference on Inequity in Maternal and Child Health: Situations and Solution", held at Indian Institute of Public Health, Gandhinagar (IIPHG)" from Nov 30 - Dec1 2013 for the systematic review "Interventions for preventing obesity among children in South Asian region".
- Ms. Maxie Andrade paper presented on "Nursing aptitude: Can it be measured?" In the 2nd International Conference on Higher Education Research, by IAMURE Multidisciplinary Research, held between February 25-26, 2014 in Malaysia. Awarded Best Oral Presenter
- Ms. Maxie Andrade Paper presented on "Ensuring competent nurse workforce: A proactive approach to transform practice and population health" in the national conference on Protecting Women's and Children's Health through proactive nursing, Organized by Sri Vonoba Bhave College of Nursing Silvassa, Dadra Nagar Haveli, between 10-12 October 2014. Awarded Best Scientific paper



Students

Ms. Nisha Joseph, Ms. Nidhi Menon, Ms. Reshma M.Sc. Biostatistics students awarded in appreciation of presenting a Research paper in "Directorate of Census operations and Institute of Social and Economic change [ISEC] at Bangalore sponsored by UNDP.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Workshops: 05 **Conferences/Symposium:** 01

| # | Title of the Seminar/ | National/ | Funding | Outstanding Resource |
|----|--|---------------|---------------------------------------|--|
| | workshop/ conference | International | _ | |
| 1. | Conference on Linear Algebra & its Applications from 18-20 December 2014 | International | Agency DST CSIR NBHM INSA | Dr. R.B. Bapat R. Balakrishnan Abraham Berman Rajarama Bhat Rajendra Bhatia Arup Bose Steve Haslett Surender Kumar Jain Andre Leroy S.H. Kulkarni Arbind Kumar Lal S.K. Noegy Sukanta Pati Simo Puntanen T.E.S. Raghavan Sharad Sane Bhaba Kumar Sarma Ajith Eqbal Singh K.C. Sivakumar Sivarama Krishnan Sivasubramanian Murali K, Srinivasan Wasin So V.S Sundar |
| 2. | Workshop on "Official Statistics" on 16th December, 2014 | National | NASA | Dr. Anjana Dube Shri. H. Borah |
| 3. | Workshop on "Systematic Reviews and Meta Analysis" November 22-23, 2014 | National | Nil | Dr. Unnikrishnan B Dr. Suma Nair Dr. Prasanna Mithra Dr. Judith Noronha |
| 4. | Workshop On Data Manipulation And Statistical Analysis Using SAS - August 1-3, 2014 | National | Nil | Mr. Pradeep Acharya Mr. Raghavendra Devadiga Ms. Madhura Saralaya Ms. Amitha Puranik |
| 5. | Workshop on statistical methods in epidemiology– 26-30 May 2014. | National | MCI | |



| # | Title of the Seminar/ workshop/ conference | National/ International | Funding Agency | Outstanding Resource persons |
|----|---|----------------------------|-------------------|------------------------------|
| 6. | Workshop on Survey Research & Statistical Analysis: 12 – 14 August, 2013 | National | Nil | |

31. Code of ethics for research followed by the departments

As set by university ethics committee

32. Student profile course-wise:

| Name of the Course (refer to question no. 4) | Applications received | | ected Female | Pass percentage Male Female |
|--|-----------------------|-----|-----------------|--------------------------------|
| M.Sc. Biostatistics (2013 -14) | 78 | 14 | 22 | 100 100 |
| Certificate course in Biostatistics, Epidemiology and Research Methodology (2013-14) | 305 | 143 | 140 | 100 100 |

33. Diversity of students

| Name of the Course (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|---|---|--|
| M.Sc. Biostatistics (2013-14) | Nil | 29 | 61 | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Nil

35. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | |
| PG to M.Phil. | |
| PG to Ph.D. | 6 |
| Ph.D. to Post-Doctoral | |
| Employed | |
| Campus selection | 72 |
| Other than campus recruitment | 11 |
| Entrepreneurs | |

36. Diversity of staff

| Percentage of faculty who are graduates | | | |
|---|-----|--|--|
| of the same university | Nil | | |



| from other universities within the State | 57% |
|--|-----|
| from universities from other States | 43% |
| from universities outside the country | |

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period

38. Present details of infrastructural facilities with regard to

a) Library: yes b) Internet facilities for staff and students: yes c) Total number of class rooms: 02 d) Class rooms with ICT facility: 02 e) Students' laboratories: 01 f) Research laboratories: 01

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host university:
- Ms. Mellissa Glenda Lewis
- b) from other universities

Doctoral Students:

- Mr. Shivashankar
- Ms. Leena Sequira
- Ms. Santhi Sheela
- ➤ Ms. VinithaAcharya
- Ms. Divya Shenoy
- Mr. Kalesh M Karun
- Mr. Ravi Shankar
- Ms. K R Banumathe

40. Number of post graduate students getting financial assistance from the university.

3 (scholarship on tuition for Konkani speaking and AGE students)

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Before commencement of the programme the stake holders including, employers and academicians have been contacted and their feedback regarding viability and employability have been obtained. The programme structure, syllabus, mode of delivery etc have been debated in the dept. and then presented to the board of studies. Some of the external members from academic and industry, regularly involved in this exercise, are:



- > Dr. Venkatesan, TRC, ICMR, Chennai
- > Dr. Jayanti Gupta, VP Clinical Development Semler Research Centre Pvt Ltd, J.P.Nagar, Bangalore
- > Dr. Amit Bhattacharyya, GlaxoSmithKline Pharmaceuticals Embassy Link, Bangalore
- ➤ Prof. Jayaseelan, CMC, Vellore
- > Dr. AshwiniMathur, Novartis Healthcare Pvt. Ltd. Madhapur, Hyderabad
- Dr. Viswanath Iyer, Novartis Health care Pvt Ltd, Hyderabad

42. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes; feedback is regularly obtained regarding content, syllabus, method of teaching, delivery & evaluation etc

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes; We collect feedback from the students at the end of the course. Based on their feedback, relevant actions are taken.

c. alumni and employers on the programmes offered and how does the departmentutilize the feedback?

Yes; we collect feedback from the employers and alumni. The feedback is used to modify the course content, course delivery, training and evaluation.

43. List the distinguished alumni of the department (maximum 10)

- ➤ Chethana Kalmady, Statistician, Novo Nordisk Service Center, Pvt., Ltd., Bangalore
- > PradeepAcharya, Sr. Statistician, Ephicacy Life sciences Analytics Bangalore
- Lijina K, Jr. Statistician, Novo Nordisk Service Center, Pvt., Ltd., Bangalore
- Raghavendra, Associate Biostatistician, GSK, Bangalore
- Ramesh Vishwakarma, Sr. Biostatistician, GVK Biosciences, Ahmedabad.
- Ravikant Chaubey, Theorem India Pvt Ltd, Bangalore.
- ➤ ShivamPandey, Indian Institute of Public Health, Delhi
- Madhura P, GSK, Bangalore
- Rajani, PPD, Bangalore.
- > Reshma, Quanticate, Bangalore.
- Divya Nair H, Indian Institute of Public Health, Delhi

44. Give details of student enrichment programmes (special lectures / workshops /



seminar) involving external experts.

Special Lectures

- > Dr. Ashwini Mathur, Dr. Vishwanth Iyear have given talks on "Opportunities for Biostatistics"
- > Dr. Surendra Yajamany have given talk on "Role of Biostatistians in Clinical
- Ashim Dhar have given talk on "Importance of Statistics in Health Science research"
- > Dr. B.L Verma have given talk on "Future of Biostatistics"

Workshops

- ➤ Workshop on Survey Research & Statistical Analysis: 12 14 August, 2013
- ➤ National workshop on statistical methods in epidemiology 26-30 May 2014.
- National Workshop On Data Manipulation And Statistical Analysis Using SAS -August 1-3, 2014
- ➤ Workshop on "Systematic Reviews and Meta Analysis" November 22-23, 2014.
- National Workshop on "Official Statistics" on 16th December, 2014.
- > SAS training program April and May,2014

45. List the teaching methods adopted by the faculty for different programmes.

Class room discussion, seminars, case studies, case discussion, practical, consultancy, tutorial, Journal presentation etc.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- > Performance and quality of students regarding their knowledge are measured by evaluators during sessional examination, presentation, internal and external evaluation of the university examination.
- We obtain feedback from industries who hire our student on their expertise in the subject as well as their suitability for the industry.

47. Highlight the participation of students and faculty in extension activities.

- > Students conducted ANVESHA, a fest for the undergraduate statistics students of all colleges in this region
- Providing consultancy
- ➤ VSO (Voluntary Service Organization) of the university
- > UTSAV-Cultural Coordination Committee.

48. Give details of "beyond syllabus scholarly activities" of the department.

Conference presentation, conducting workshops, journal/ seminar presentation, consultancy etc.



49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

ISO 9001: 2008 & 14001:2004 certified

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

PhD program, publications, students projects, proceedings, contributions to the text books, advanced workshops, conference presentations

51. Future plans of the department.

Vision

- To become Asia's leader in teaching, training, research and consultancy in applied statistical sciences
- Establish an institute for applied statistics (Manipal Institute of Applied Statistical Sciences (MIASS)) and achieve world class by 2015

Mission

Be the most preferred choice of

- > Students for training, internship and research
- > Industry, governmental and nongovernmental organizations for consultancy, training, placement and collaboration
- Faculty for teaching, research collaboration, fellowship and training needs
- > Researchers for consultancy and collaboration
- ➤ Universities and funding organizations for collaboration

52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- ➤ Good infrastructure and resources
- > Exposure to faculty and students of different streams
- Alumni are placed in nationally and internationally recognized organization
- > Collaboration with industries and Institutions
- > Faculty members specialized in different areas

Weakness:

- > Difficulty in getting good quality students
- > Lack of funded projects
- ➤ Lack of fundamental research

Opportunities:

- > Scope for national and international collaborations in view of university emphasizing more towards expansion and internationalization
- > Scope for collaboration with other disciplines within the University
- > Scope for imparting statistics, epidemiology and research methodology to the fraternity of other disciplines.

EVALUATIVE REPORT OF THE DEPARTMENT



> Scope for multi-disciplinary research

Challenges:

- > Attracting good quality students
- Most of the programs are relatively new and hence, we do not have a role model to follow
- > Collaborating, communication, teaching statistics to non-statisticians.



- 1. Name of the Department: Department of Public Health
- 2. Year of establishment: 2009
- 3. Is the Department part of a School/Faculty of the university?

Yes

- 4. Names of Programmes/Courses offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.):
 - Master of Public Health (MPH)
 - Master of Social Work (MSW)
 - Master of Hospital Administration (MHA)
- 5. Interdisciplinary courses and departments involved:
 - Department of Statistics, Manipal
 - School of Communication, Manipal
 - School of Management, Manipal
 - Department of Commerce, Manipal
- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.
 - Foundation course on Global Health (e-Learning) in collaborations with Maastricht University, The Netherlands and McMaster University, Canada
 - Foundation Course 1 from (August to November) & Foundation Course 2 from (Jan-April): In the course students from three universities attend online lectures through video conference facility. Students are divided into groups one student from each university (Manipal, Mastrictct and McMaster). Here they were taught on emerging issues in Global Health and also on Grant writing which includes logical frame work and budgeting in the projects. Every Wednesday students will do group exercise through skype and once in fortnight they have online lecture class. In this experts from McMaster and Maastricht address these students on Global Health and Grant writing. Each groups will submit an assignment at the end of the course and present during Global Health Symposium in Manipal. This is a unique mode of teaching where students are exposed to the International learning.
 - **Study Abroad Program**: Students from the following Universities visit Department of Public Health as a part of their study abroad program.
 - University of Maryland, USA
 - Ohio State University ,USA
 - Global Alliance, USA



- University of Miami
- 7. Details of programmes/courses discontinued, if any, with reasons: Nil
- 8. Annual/Semester/Choice Based Credit System: Semester system-Credit based
- 9. Participation of the department in the courses offered by other departments: Nil
- 10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Assistant Professors)

| | Sanctioned | Filled |
|------------------------|------------|--------|
| Professor | 1 | 1 |
| Associate Professors | 3 | 3 |
| Assistant Professors | 2 | 2 |
| Senior Grade Lecturers | 3 | 3 |
| Lecturers | 3 | 3 |

11. Faculty profile with name, qualification, designation and specialization (DSc/DLitt/PhD/MPhil, etc.,)

| # | Name | Qualific a-tion | Designation | Specialization | No. of Years of Experienc e | No. of Ph.D. studen ts guide d for the last 4 years |
|----|------------------------|--------------------|--|---|--------------------------------------|---|
| 1 | Dr.RamachandraKamath | MD | Professor | Community Medicine | 15 | - |
| 2 | Dr.Sanjay Pattanshetty | MD | Assoc. Prof. & coordinator – MPH Programme | Community Medicine | 06 | - |
| 3 | Dr.Prakash Narayan | Ph.D | Assoc. Prof. | Population Studies | 12 | - |
| 4 | Dr.SameerPhadnis | MD MPH | Assoc. Prof. | Community Medicine | 06 | - |
| 5 | Dr Lena Ashok | Ph. D | Asst. Prof. & Coordinator MSW Programme | Medical and Psychiatric Social Work | 23 | - |
| 6 | Dr.RajeshKamath | MBBS MHA | Asst. Prof. | Hospital Administration | 04 | - |
| 7 | Ms Ida D'Souza | M. Phil | Senior Grade Lecturer | Community Development | 18 | - |
| 8 | Ms.ShammyShiri | LL.B MPhil | Senior Grade Lecturer | Human Resource Management | 14 | - |
| 9 | Mr Teddy Andrews | MPhil | Senior Grade Lecturer | Medical and Psychiatric Social Work | 12 | - |
| 10 | Dr.Varalakshmi C | MBBS MPH | Lecturer | Public Health | 11 | - |
| 11 | Dr. Aarthy Rao | MBBS MPH | Lecturer | Public Health | 05 | - |
| 12 | Dr.AarthyRamasamy | MBBS MPH | Lecturer | Public Health | 01 | - |



12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors:

| Sl No | Name | Organization |
|-------|---------------------|--|
| 1 | Dr Derek Lobo | Retired WHO Consultant |
| 2 | Dr.RajnarayanTiwari | National Institute of Occupational Health, Ahmedabad |
| 3 | Dr.Ravichandran | Regional Occupational Health Centre, Bangalore |
| 4 | Dr.Shammanna | PHFI Hyderabad |
| 5 | Dr.RajnarayanTiwari | National Institute of Occupational Health, Ahmedabad |
| 6 | Dr. Anil Krishna | SRM University, Chennai |

13. Percentage of classes taken by temporary faculty – programme-wise information: 30%

14. Programme-wise Student Teacher Ratio

MPH: 1:12

MSW: 1:12

MHA: 1:21

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Clerk - 1

Support Staff – 1

16. Research thrust areas recognized by funding agencies

- Nutritional and Health status of school children
- Anemia among tribal population
- Evaluation of PPI Programme
- Evaluation of MDA for Filariasis
- HIV/AIDS
- TB, Malaria
- Population based cancer registry
- Indoor Air Pollution
- Ageing
- Adolescent Health
- Cleft lip and cleft palate in children
- Cardiovascular disease registry
- Information technology in Public Health



- Disaster Management
- Supportive supervision of NACO supported Targeted Intervention Program
- Chronic diseases: Hypertension, Ulcerative Colitis, Diabetes, Cancer
- Child rights
- Gender sensitivity
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

| Funding Agency | Grants Received (in INR) |
|---|--------------------------|
| Manipal Centre for European Studies | 6,80,000 |
| ISKCON | 11,00,000 |
| University of Alabama, USA | 4,00,000 |
| Karnataka Knowledge Commission | 3,80,000 |
| University of Alabama, USA | 3,46,000 |
| UNICEF | 6,00,000 |
| Women and Child welfare Department (WCD) | 2,00,000 |
| Zilla Panchayat, Udupi | 70,000 |
| Women and Children welfare Department, Udupi | 2,00,000 |
| University of Alabama | 3,50,000 |
| National Institute of Mental health and Neuro | 1,90,000 |
| sciences, Bangalore | |
| WHO | 1,90,000 |
| ITREOH | 31602 |
| UNICEF | 23,00,000 |

- 18. Inter-institutional collaborative projects and grants received: Nil
- a) All India collaboration b) International
- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received Nil
- 20. Research facility/centre with Nil
 - State recognition
 - National recognition
 - International recognition
- 21. Special research laboratories sponsored by/created by industry or corporate bodies
 Nil
- 22. Research Output in last 3 years

| 2010 | 2011 | 2012 | 2013 | 2014 |
|------|------|------|------|------------------|
| 2010 | 2011 | 2012 | 2013 | 201 4 |



| Completed fund | ded research | 5 | 6 | 2 | 2 | 3 |
|--------------------------------|--------------------------------|----|----|----|----|----|
| projects | projects | | U | 2 | | |
| Completed non- | Completed non-funded research | | 1 | | | |
| projects | | | 1 | | | |
| Completed PhD | research projects | | | | | |
| Completed PG | Completed PG research projects | | 21 | 35 | 32 | 46 |
| Completed UG research projects | | | | | | |
| Publications | International | 11 | 3 | 5 | 5 | 7 |
| Publications | National | 1 | 1 | 1 | 2 | - |
| Books | | | | | | |
| Chapters in books | | | 1 | 1 | | |
| Conference | International | 1 | 4 | 5 | 1 | 1 |
| presentations | National | | 4 | 5 | | |

Publications:

- Number of papers published in peer reviewed journals (National / International) –22
 - 1. Kumar A, Pandit V, Pattanshetty S, Roy S, Krish S. A profile of dengue cases admitted to a tertiary care hospital in Karnataka, South India. Tropical doctor 2010;40:45-46
 - 2. Renjhen P, Kumar A, Pattanshetty S, Sagir A. A study on knowledge, attitude and practice of contraception among college students in Sikkim, India. J Turkish-German GynecolAssoc 2010; 11: 78-81
 - 3. Rahaman H, Renjhen P, Kumar A, Pattanshetty S, Sagir A, Dubey H. A study on EmergencyContraceptive practice among nursing staff in Sikkim, India-A cross sectional study. AMJ 2010;3(10):667-671
 - 4. Shetty RS, Pattanshetty S, KamathA, Kamath S. Are our women aware of HIV/AIDS?-A cross-sectional study. AMJ 2010, 3(10):638-643
 - 5. Pattanshetty S, Kumar A, Pandit V, SnehaK ,Darshan BB. HIV-TB co-infection in southern India. AMJ 2010;3(10):689-690
 - 6. Pattanshetty S, Nagaraj K, Kamath A, Bairy R. Private practitioners approach in the diagnosis of pulmonary tuberculosis in southern India. AMJ 2010;3(9): 611-613
 - 7. Kamath V, Pattanshetty S, Mithra P, Lena A. Prevalence of Overweight and Obesity among the rural school children in Udupitaluk, South India. AMJ 2010;3(6):357-363
 - 8. Kumar A, Kamath V, Kamath A, Rao C, Pattanshetty S, Sagir A. Nutritional status assessment of under-five beneficiaries of Integrated Child Development Services program in rural Karnataka. AMJ 2010;3(8): 495-498
 - 9. VeenaKamath G. PrasannaMithraP. Pattanshetty S. AshaKamath. AnujaBalakrishnan, Tinni Mishra, NishaSinha, Lena A. Prevalence of hypertension in the paediatric population in Coastal SouthIndia. AMJ 2010; 3(11): 695-698
 - 10. Pattanshetty S, Kumar A, Kumar R, Rao CR, Badiger S, Rashmi R, Kamath S. Mass drugadministration to eliminate lymphatic filariasis in SouthernIndia. AMJ 2010;3(13):847-850
 - 11. Sabu KM, Pattanshetty S, Darshan BB, SnehaKamath. Problem of Breast cancer in South India-A Recordbased study. AMJ 2010;3(13):970-973
 - 12. Shetty RS, Pattanshetty S, Kamath S, Harrison P, Ming ER. A study on awareness regarding Hepatitis Binfection and vaccination among medical students. AMJ 2010;3(13):970-973



- 13. MadhumithaBalaji, Teddy Andrews, Gracy Andrew and Vikram Patel, (2011), The acceptability, feasibility and effectiveness of a population-based intervention to promote youth health: An exploratory study in Goa, India, Journal of Adolescent Health, 48, 453 460
- 14. Manjunatha R, Kiran D, Thankappan K R. Sickness Absenteeism, Morbidity and Workplace Injuries among Iron and Steel workers A Cross Sectional Study from Karnataka, Southern India. AMJ 2011, 4, 3, 144-7
- 15. Manjunatha R, Krishnamurthy J, Reynold Washington et al. Understanding Positive Prevention Practices among People Living with HIV in Karnataka, Southern India. AMJ 2011, 4, 4, 150-161
- 16. Kiran D, Manjunath R, Aswin K, Mahabalaraju DK, Patil BK. A study on risk factors associated with inconsistent condom and lubricant use among men who have sex with men in central Karnataka, India. AMJ 2011, 4, 9, 469-473
- 17. Shammyshiri (2012)"Effectiveness of Human Resource Information System on HR functions of the Organisation –A cross Sectional study" US-China Education Review A education Practice Vol 3 No 9 September Edition Pg 830-839 David Publishing Company USA
- 18. Shammyshiri(2012)Strategic Role of HR Audit in Organisational Effectiveness" Journal of Management and Public Policy Vol3 No 2 June Edition Pg 39-45 Spartacus India
- 19. Kumar A, Rao C, Pattanshetty S. Study of clinical profile and antibiotic sensitivity pattern in culture positive typhoid fever cases. Indian Journal of Community Medicine 2012;37; 256-8
- 20. Pandit V, Kumar A, Kulkarni MM, Pattanshetty S, Smarasinghe C, Kamath S. Clinical Profile and Antibiotic Sensitivity in Paratyphoid Fever Cases admitted at Tertiary Care Hospital in South India. J Fam Med Primary Care 2012;1:118-21
- 21. RamachandraKamath, SnehaGaitonde, PoojaTripathi, Dhritiman Das, Mayuri Banerjee, Myna Shetty, Sandeep Kumar Nayak, Md. Asadulla. Clinico-epidemiological profile of malaria: Analysis from a primary health centre in Karnataka, Southern India. GJMEDPH 2012; Vol. 1 issue 6
- 22. RamachandraKamath, SnehaGaitonde, PoojaTripathi, Dhritiman Das, Mayuri Banerjee, Myna Shetty, Sandeep Kumar Nayak, Md. Asadulla. Clinico-epidemiological profile of malaria: Analysis from a primary healthcentre in Karnataka, Southern India
 - a. GJMEDPH Vol. 1, No. 6 2012
- 23. ShammyShiri (2013) "Impact of Managers and senior leaders influencing Employee Engagement"Indian Journal of Applied Research Vol 3 issue 8 August Edition Pg 477-480
- 24. Kamath R, Gupta R, Chandrasekaran V, Pattanshetty S. Assessment of environmental factors associated with dengue transmission in UdupiTaluk, Karnataka. J SciSoc2013;40:159-61
- 25. Kamath R, Sharma V, Pattanshetty S, Hegde MB, Chandrasekaran V. HIV-TB coinfection: Clinico-epidemiological determinants at an antiretroviral therapy center in Southern India. Lung India 2013;30:302-6.
- 26. Kamath R, Ghosh D, Lena A, Chandrasekaran V. A study on knowledge and practices regarding menstrual hygiene among rural and urban adolescent girls in UdupiTaluk, Manipal, India. GJMEDPH September 2013; Vol. 2, issue 4.
- 27. Kamath R, Majeed JA, Chandrasekaran V, Pattanshetty SM. Prevalence of anemia among tribal women of reproductive age in UdupiTaluk, Karnataka. J Fam Med Primary Care 2013;2:345-8



- 28. RamchandraKamath, Kamaleshwar S Mahajan, Lena Ashok, and T S Sanal. A Study on Risk Factors of Breast Cancer Among Patients Attending the Tertiary Care Hospital, in Udupi District. Indian J Community Med. 2013 Apr-Jun; 38(2): 95–99.
- 29. Bhat H V, Kamath R, Arunkumar G, Delzell E, Tipre M, Upadhyay D.K; Sathiakumar N: MPH Program at Manipal University, India – Experiences, Challenges and Lessons Learned – Am. J Ind Med: Vol 56, Issue 1, 20-28, Jan 2013
- 30. ShammyShiri Integration and Transformation of HR as a Strategic Partner in Business Operations International Journal of Scientific Research, Vol.III, Issue.I January 2014
- 31. Shammy Shiri.Impact of Globalisation -Integration and transformation of HR as a strategic partner in Business operations, Global Journal for research Analysis, Volume 3, Issue 7 July 2014
- 32. Emanuel Peter, RamachandraKamath, Teddy Andrews, and B M Hegde. Psychosocial Determinants of Health-Related Quality of Life of People Living with HIV/AIDS on Antiretroviral Therapy at Udupi District, Southern India. IJPM Feb 2014 5(2)
- 33. Yadav N, Kamath R, Ashok L, Shetty B, Hegde B M, Dhar M, Chandrasekaran V. The link between HIV/AIDS and violence among young adults: A study in Udupi, Karnataka. Int J Med Public Health 2014;4:486-90
- 34. Kamath R, Robin S, Chandrasekaran V. Common mental disorders: A challenge among people living with human immunodeficiency virus infection/acquired immunodeficiency syndrome in Udupi, India. Ann Med Health Sci Res 2014;4:242-7.
- 35. Kamath R, Swain S, Pattanshetty S, Nair NS. Studying risk factors associated with human leptospirosis. Journal of Global Infectious Disease. 2014 Jan;6(1):3-9
- 36. Kamath R, Sanah N, Machado LM, Sekaran VC. Determinants of enrolment and experiences of RashtriyaSwasthyaBimaYojana (RSBY) beneficiaries in Udupi district, India. Int J Med Public Health 2014;4:82-7
- Monographs -Nil
- Chapters in books −2
 - 1. ShammyShiri, TeddyAndrews, Lena Ashok, Ida D'Souza, (2012) "Corporate Social Responsibility Initiatives on Health by Infosys Foundation", In IlangoPonnusami and Abraham P Francis, Professional Social Work - Perspectives on Practice and Extension, First Edition, Authorspress, New Delhi
 - 2. Teddy Andrews, (2011), "Exploring Innovations in Social Work Training Practices", Professional Social Work – Best Practices and Innovations in Teaching, Research and Extension, Authorspress, New Delhi.
- Edited books –Nil
- Books with ISBN with details of publishers –Nil
- Number listed in International Database (For e.g., Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) –Nil

EVALUATIVE REPORT OF THE DEPARTMENT



- * Citation Index range / average Nil
- * SNIP -Nil
- * SJR -Nil
- * Impact Factor range / average -----
- * h-index ----
- 23. Details of patents and income generated: Nil
- 24. Areas of consultancy and income generated: Nil
- 25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad: Nil
- **26. Faculty serving in : Nil**
 - a) National committees b) International committees c) Editorial Boards d) any other (please specify)
- 27. Faculty recharging strategies:
 - Regularly supporting the faculty members to participate in workshops in their respective fields
 - Pedagogy workshops for faculty members

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects – 100%
- percentage of students doing projects in collaboration with other universities/industry/institute –Nil
- 29. Awards/recognitions received at the national and international level by
 - Faculty 2012-MsShammyShiri received a best paper award in an International Conference at Indonesia
 - 2014-Ms Shammy Shiri received a best presenter award in an International Conference at Phuket Thailand.
 - 2014-Dr. Sanjay M. Pattanshetty- Executive Board Member- Asian Health Literacy Association, Geneva office.
 - Doctoral/post-doctoral fellows
 - Students



- 30. Seminars/Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.
 - Global Health Symposium 2011 & 2012: 80 students (40 from Mastricht) and (40 from McMaster attended the symposium in Manipal. Four Facultymembers from Mastricht, Four from McMaster University were the resource persons.
 - Global Health Symposium 2013 in collaboration with Maastricht University, The Netherlands and McMaster University, Canada.
 - International Workshop on Environment and Occupational Health in Collaboration with the National Institute of Occupatinal Health- Ahmedabad and the Regional & Government of Karnataka Occupational Health Centre-Bangalore
 - Two days workshop on "Qualitative rearch"
 - Global health symposium in 2014- Attended by over 175 students, delegates from Maastricht, McMaster and Manipal Universities.
 - Global health symposium in 2015- Attended by over 220 students, delegates from Maastricht, McMaster and Manipal Universities.
 - Dog's day out- Rabies awareness, in collaboration with the Department of Community Medicine, Rotary Club Manipal, Lion's Club Manipal and the survodaya Trust.

Resource persons for the Symposium

- Dr.Andrea Baumann, Director, Masters of Science in Global Health, McMaster University, Canada,
- 2. Dr.SanjayZodpey, Director, Public Health Education, Public Health Foundation of India, New Delhi
- 3. Dr. Donna Doane from the Asian Insitute of Technology, Thailand
- 4. Dr. Thomas Krafft, Maastricht University
- 5. Dr Eva Pilot, Maastricht University
- 6. Dr. NerejaBhola from McMaster University, Canada,
- 7. Dr. Satishchandra, Surveillance Medical Officer, NPSP-WHO,
- 8. Dr. Sridhar, State Health Consultant, UNICEF,
- 9. Dr. Suresh Mariaselvam, SRM University, Chennai



2013

Dr.SureshMariaselvam, SRM University, Chennai

2014

- 10. Susan Barclay, McMaster University
- 11. Christopher Gombai, McMaster University
- 12. Michael Ladoceur, McMaster University
- 13. Andrea Baumann, McMaster University
- 14. Christopher Longo, McMaster University
- 15. Agnes Meershoek, Maastricht University
- 16. Anja Krumeich, Maastricht University
- 17. Nynke Dejong, Maastricht University
- 18. Thomas Krafft, Maastricht University
- 19. Eva Pilot, Maastricht University
- Public Health in emergencies: More than 100 Medical Officers from Udupi, Dakshina Kannada and Karwar districts of coastal Karnataka were trained in Public Health Emergencies. This project was funded by UNICEF.

Resource persons for the training

- 1. Dr. Shekar NIMHANS Bangalore
- 2. Dr. Anil Krishna SRM University
- 3. Dr.SureshMariaselvam SRM University
- 4. Dr.Satishchandra NPSP WHO
- 5. Dr.Pratap Red-R India
- 6. Dr.Chandan Gosh NIDM Delhi
- International workshop on Epidemiology and Biostatistics: More than 80 participants were participated from various medicals colleges in Karnataka.

Resource persons for the training

- 1. Dr. Nagaraj Haikady, Ohio State University
- 2. Stan Lemeshow, Ohio State University
- International Conference on Environment and Occupational Health (EOH): The first International Conference on Environment and Occupational Health was held in Dec



2012. This was organized jointly with National Institute of Occupational Health (NIOH) Ahmedabad, Regional Institutional of Occupational Health (RIOH), Bangalore. More than 150 delegates participated in this conference.

Resource persons for the conference

- 1. Dr.NaliniSathiakumar, University of Alabama, USA
- 2. Dr. P. K. Nag ,NIOH Ahmedabad
- 3. Dr. TapanChakrabarti, NEERI
- 4. Dr. Anjali Nag, NIOH Ahmedabad
- 5. Dr. Arrigo. Italy
- 6. Dr. Wultsch, Austria
- 7. Dr.Nagappa, Pollution Control Board Bangalore
- 8. Dr.Surendra, Joint Director Factories Bangalore
- 9. Dr. ShyamPingle, IBM, Bangalore
- 10. Dr. Nynke de Jong, Maastricht University
- 11. Dr. Jayakumar, Malaysia
- 12. Dr.Ravichandran, ROHC, Bangalore
- Workshop on Practicing Counseling:
- Workshop on Cancer Registry: Cancer registry workshop was conducted to initiate hospital Based Cancer Registry and Population Based Cancer Registry in Manipal

Resource persons for the workshop

- 1. Dr. Gangadharan, Amrita Institute Of Medical Sciences & Research Centre, Cochin, India
- 2. Dr. Swaminathan, Department of Biostatistics and Cancer Registry, Cancer Institute (WIA), Chennai
- 31. Code of ethics for research followed by the departments: As per the University norms

32. Student profile course-wise:

| Name of the Course (refer to question no. 4) | Applications received | Selected Male Female | Pass percentage Male Female |
|--|-----------------------|--------------------------------|--------------------------------|
| MPH 2009 | 20 | 11 2 | 100 |
| MPH 2010 | 35 | 12 5 | 100 |
| MPH 2011 | 70 | 24 11 | Present 2 nd years |
| MPH 2012 | 70 | 9 19 | Present 1 st years |
| MSW 2009 | 9 | 4 5 | 100 |
| MSW 2010 | 25 | 13 5 | 100 |
| MSW 2011 | 46 | 15 14 | Present 2 nd years |
| MSW 2012 | 45 | 8 13 | Present 1 st years |
| MHA 2011 | 16 | 1 4 | Present 2 nd years |
| MHA 2012 | 140 | 9 21 | Present 1 st years |



| Name of the Course | Applications | Selected | Pass percentage |
|---------------------------|--------------|-------------|-----------------------------------|
| (refer to question no. 4) | received | Male Female | Male Female |
| MPH 2013 | 89 | 12 20 | Presently in 2 nd year |
| MPH 2014 | 96 | 14 31 | Presently in 1 st year |
| MHA 2013 | 116 | 9 15 | Presently in 2 nd year |
| MHA 2014 | 120 | 11 27 | Presently in 1 st year |
| MSW 2013 | 31 | 6 7 | Presently in 2nd year |
| MSW 2014 | 56 | 17 19 | Presently in 1st year |

33. Diversity of students 2013-14

| Name of the Course (refer to question no. 4) | % of students from the same University | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|--|
| MPH 2009 | 35 | 0 | 45 | 20 |
| MPH 2010 | 12 | 7 | 74 | 7 |
| MPH 2011 | 12 | 20 | 60 | 8 |
| MPH 2012 | 10 | 21 | 62 | 7 |
| MPH 2013 | 28 | 16 | 56 | 0 |
| MPH 2014 | 18 | 9 | 67 | 6 |
| MSW 2009 | 0 | 77 | 23 | 0 |
| MSW 2010 | 0 | 80 | 20 | 0 |
| MSW 2011 | 0 | 80 | 20 | 0 |
| MSW 2012 | 0 | 87 | 13 | 0 |
| MSW 2013 | 0 | 77 | 23 | 0 |
| MSW 2014 | 0 | 83 | 17 | 0 |
| MHA 2010 | 35 | 65 | 0 | 0 |
| MHA 2011 | 0 | 60 | 40 | 0 |
| MHA 2012 | 10 | 27 | 60 | 3 |
| MHA 2013 | 12 | 42 | 46 | 0 |
| MHA 2014 | 11 | 21 | 68 | 0 |
| | | | | |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. Nil

35. Student progression

| Student progression | Percentage against enrolled |
|----------------------|-----------------------------|
| UG to PG | |
| PG to Mphil | 3 MSW students |
| PG to PhD | |
| PhD to Post-doctoral | |
| Employed | |



| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| Campus selection | |
| Other than campus recruitment | 100 % |
| Entrepreneurs | |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|----|
| of the same University | 20 |
| from other universities within the State | 60 |
| from universities from other States | 20 |
| from universities outside the country | |

- 37. Number of faculty who were awarded PhD, DSc and Dlitt during the assessment period –Nil
- 38. Present details of infrastructural facilities with regard to
 - a) Library –Yes
 - b) Internet facilities for staff and students –Yes
 - c) Total number of class rooms –5
 - d) Class rooms with ICT facility -Nil
 - e) Students' laboratories Not Applicable
 - f) Research laboratories -Not Applicable
- 39. List of doctoral, post-doctoral students and Research Associates : Nil
 - a) from the host University
 - b) from other universities
- **40.** Number of postgraduate students getting financial assistance from the University. Eight
- 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Nil
- 42. Does the department obtain feedback from
- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - Yes, through BoS
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the



department utilize the feedback?

Yes, by semester wise students feedback

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? Nil
- 43. List the distinguished alumni of the department (maximum 10): Not applicable
- 44. Give details of student enrichment programmes (special lectures/workshops/seminar) involving external experts.

Guest lectures – 10

| Name of the Resource Person | Organisation | Title | |
|-----------------------------|--|------------------------------|--|
| Dr. Srinath Reddy | Public Health Foundation | Maternal and Child Health | |
| | of India, Delhi | | |
| Dr. Sanjay Zodpey | Public Health Foundation | Human Resource in Public | |
| | of India, Delhi | Health | |
| Dr. NagarajHaikadi | Ohio State University, | Epidemiological Research | |
| D 14' 1 1D' | USA | in Public Health | |
| Dr. Michael Bisesi | Ohio State University, USA | Environmental Health | |
| Dr. Raj Warrior | Lousiana State University, | Cancer Research and | |
| | USA | Palliative Care | |
| Dr. SwapanGarain | Tata Institute of Social | Social Entrepreneurship | |
| | Sciences, Mumbai | | |
| Dr. Nalini | University of Alabama, USA | Occupational Health | |
| Dr. Judith Read Guernsey | Dalhousie University, | Environmental Health | |
| | Canada | | |
| Dr. Mogasale | Accine Initiative, Korea | Newer Vaccines | |
| Dr. RamachandraBairy | District Health and Family | Public Health System in | |
| | Welfare, Udupi | India | |
| Dr. Chandan Ghosh | Ministry of home affairs, New Delhi | Disaster management plan | |
| Dr. Micheal S. Bisesi | Ohio State University | Environmental | |
| Di. Micheal S. Disesi | Omo State Omversity | occupational health | |
| Professor K. Srinath Reddy | President PHFI | Public Health in India | |
| Dr. Vittal Mogasle | Health Economist | Role of health economist in | |
| 210 (100021/20 guazz | 2200000 | decision making | |
| Dr. Jayanth | Medical Officer, WHO | Immunization | |
| | Bangladesh | | |
| Dr. Nandini K. Kumar | Chennai (ICMR) | Ethical principles in Public | |
| | | Heath | |
| Dr. Anil Krishna | SRM University, Chennai | Research Methodology | |
| Dr. Swapan Garain | Tata Institute of social | Social Entrepreurship | |
| | sciences, Mumbai | | |
| Dr. Ved prakash G. M | (Admin and RI) State | NRHM in UP | |
| | Program management | | |



| | Unit. National Rural | |
|------------------------|---------------------------|-----------------------------|
| | Health Mission UP | |
| Dr. Ramachandra Bairy | District Health Officer, | Health care system in India |
| | Udupi | |
| Dr. Donna Howard | Department of Behavioural | Adolescent Health |
| | and community Health, | |
| | School of Public Health, | |
| | Maryland University, USA | |
| Dr. Jayantha Liyanage | WHO, Bangladesh | Immunization and Health |
| Dr. Unni Karunakara | Medicine sans frontier | International Public Health |
| | (MSF) | |
| Mr. Bharat Shetty | NACO Delhi | HIV prevention and care |
| Dr. Raj Narayan Tiwari | NIOH Ahmedabad | Occupational health |
| Dr. Raj Warrior | U.S.A(Former Vice | Public Health overview |
| | Chancellor Manipal | |
| | University Manipal) | |
| Mr. Sandeep patil | Applied Cognition | Health and Technology |
| | Systems Pvt.Ltd | |
| Dr. Mary Mathew | Professor of Pathology & | Bioethics |
| | Chair of Manipal Unit of | |
| | UNESCO Chair in | |
| | Bioethics | |
| Dr.G. Arun Kumar | Head, Manipal Centre for | Ebola |
| | Virus University | |
| Professor KVS Baliga | | Personality Development |

Workshops-5

| Title | Year |
|--------------------------------|---------------|
| Cancer Registry | August 2011 |
| Public Health in Emergencies | December 2010 |
| PractisingCounselling | March 2011 |
| Epidemiology and Biostatistics | December 2011 |
| Qualitative Research | March 2012 |
| Practicing | 2013 |
| Counselling,Qualitative | |
| Research methods | |
| Environnment and | 2013 |
| Occupational Health, | |
| Qualitative Data Analysis | |
| Rabies | 2014 |
| Qualitative Data Analysis | 2014 |

Seminars -2

| Name of the Seminar / Conference | Year | Title |
|-------------------------------------|-------------------------|----------------------|
| Global Health Symposium | April 2011 & April 2012 | Global Health |
| International Conference on | December 2012 | Changing Paradigm of |



| Environment and Occupational | | Environment | and |
|------------------------------|------|---------------------|-----|
| Health | | Occupational Health | |
| Global Health Symposium | 2013 | Global Health | |
| Global Health Symposium | 2014 | Global health | |

- 45. List the teaching methods adopted by the faculty for different programmes.
 - Didactic lectures and field work
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
 - Students performance and feedback
- 47. Highlight the participation of students and faculty in extension activities.
 - Health screening camps
 - Community based health education programmes
 - Evaluation projects for the District Health Department
 - Resource persons for state and national level programmes
- 48. Give details of 'beyond syllabus scholarly activities' of the department.
 - Journal club
 - Field research
- 49. State whether the programme/department is accredited/graded by other agencies? If yes, give details. No
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. NA
- **51.** Future plans of the department.
 - To have a centre of excellence in the field of public health
 - To have an National and International accreditations
 - To establish institute as regional collaborative with WHO for training and research
- 52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

| Strengths | National and International collaborations | |
|---------------|---|--|
| Weaknesses | NIL | |
| Opportunities | Network with local organizations and government | |

EVALUATIVE REPORT OF THE DEPARTMENT



| | agencies |
|------------|----------|
| Challenges | NIL |

EVALUATIVE REPORT OF THE DEPARTMENT



Name of the Department: Department of Virus Research

Year of establishment: March 2010

Is the Department part of a School/Faculty of the University?:

Kasturba Medical College, Manipal,

Names of Programmes/Courses offered (UG, PG, MPhil, PhD, Integrated Masters; **Integrated PhD, etc.,):**

MSc Clinical Virology, PhD

- Interdisciplinary courses and departments involved: Nil
- Courses in collaboration with other universities, industries, foreign institutions, etc.,: Nil
- Details of programmes/courses discontinued, if any, with reasons: Nil
- Annual/Semester/Choice Based Credit System: Semester with Credit System
- Participation of the department in the courses offered by other departments: MSc (Medical) Microbiology course - Basic training in Virology of the Department of Microbiology.
- 10. Number of sanctioned and filled (Professors/Associate teaching posts **Professors/Assistant Professors**):

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professor | 1 | 1 |
| Associate Professors | 0 | 0 |
| Assistant Professors | 2 | 2 |
| Lecturer | 1 | 1 |

11. Faculty profile with name, qualification, designation and specialization (DSc/DLitt/ PhD/ MPhil, etc.,)

| # | Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---|----------------|---------------|-------------|--------------------------------------|----------------------------------|---|
| 1 | Dr G Arunkumar | M. Sc. PhD | Professor | Medical Microbiology, Virology | 15 | 3 |



| # | Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---|------------------------|------------------|-------------|---|----------------------------------|---|
| 2 | Dr S Sabeena | MBBS, DGO | Asst. Prof. | Medicine, Surgery and Obstetrics and Gynecology | 08 | - |
| 3 | Dr Piya Paul Mudgal | M. Pharm, PhD | Asst. Prof. | Pharmaceutica 1 Sciences | 04 | - |
| 4 | Ms. Anitha J | M. Sc. | Lecturer | Medical Microbiology | 04 | - |

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

Adjunct faculty:

- 1. Dr H K Pradhan, Office of the WHO Representative to India, New Delhi
- 2. Dr. Madurai Savathree, Director, Global Clinical and Viral Laboratories, South Africa

Eminent visitors:

| 2010 | |
|---|---------------|
| National | International |
| Dr V M Katoch, | |
| Secretary to Govt. of India, | |
| Department of Health Research | |
| (Ministry of Health & Family Welfare) & | |
| Director General | |
| Indian Council of Medial Research | |
| RamalingaswamiBhawan, | |
| Ansari Nagar, New Delhi | |
| Dr D A Gadkari | |
| Consultant ICMR | |
| Indian Council of Medial Research | |
| RamalingaswamiBhawan, | |
| Ansari Nagar,New Delhi | |
| Dr U C Chaturvedi | |
| Consultant ICMR | |
| Indian Council of Medial Research | |
| RamalingaswamiBhawan, | |
| Ansari Nagar, New Delhi | |
| A. C. Mishra | |
| Director | |
| National Institute of Virology, Pune | |
| Dr.V.Ravi, | |
| Registrar & Professor of Neurovirology, | |



| NIMHANS, | |
|---------------------------------------|--|
| Bangalore 560029 | |
| Dr. ArunBaroka | |
| Sr. DDG (A) | |
| ICMR, D/o Health Research, MoHFW, GOI | |

| 2011 | |
|-------------------------------------|---------------------------|
| National | International |
| Dr. Amita Jain | Dr. Ken Earhart |
| Professor | Country Director |
| CSM Medical College Lucknow | CDC, India Delhi |
| Prof. Thyagarajan | Dr. HariTunuguntla |
| Former Vice-Principal | UMDNF Robert Wood Jhonson |
| Sri Ramachandra University, Chennai | Medical school |
| | New Brunswick, USA |
| Dr. K R Rajesh | |
| Professor | |
| V M K V Medical College, Salem | |
| Dr. Sharan Davis | |
| CDC, India | |

| 2012 | |
|--|----------------------------------|
| National | International |
| Dr. H.V. Murugkar | IAN Felton |
| Senior Scientist and Biosafety Officer | British Deputy High Commissioner |
| High Security Animal Disease Laboratory | for Karnataka |
| (OIE REFERENCE LAB FOR AVIAN INFLUENZA) | |
| INDIAN VETERINARY RESEARCH INSTITUTE, | |
| Anand Nagar, Bhopal – 462 021 | |
| Dr. ShobhaBroor | |
| Professor of Microbiology | |
| Department of Microbiology & | |
| Centre for Community Medicine, AIIMS | |
| shobha.broor@gmail.com | |
| Dr. ShashiKhare | |
| Addl. Director & HOD (Micro) | |
| National Centre for Disease Control | |
| 22- Sham NathMarg, New Delhi -54 | |
| shashi.khare@hotmail.com | |
| Dr.RituChauhan | |
| NPO-Microbiology | |
| WHO Country office for India | |
| New Delhi | |
| chauhanr@searo.who.int | |
| Dr. P. Ravindran | |
| Director, EMR | |
| Directorate General of Health Services, | |
| Ministry of Health and Family Welfare, New Delhi | |
| diremr@gmail.com | |
| Dr George K Varghese | |
| Director of Medicine & | |



| Infectious Diseases, MIOT | |
|---------------------------------|--|
| Hospitals, Chennai | |
| Dr. Venkatesh | |
| State Surveillance officer | |
| Govt of Karnataka | |
| Bangalore | |
| Dr. Utkarsh Betodkar | |
| State Surveillance Officer, Goa | |
| gassu.idsp@nic.in | |
| Dr Amar Fettle, | |
| Consultant (Paed) | |
| State Nodal Officer-H1N1 | |
| Directorate of Health Services, | |
| Govt of Kerala | |
| Renu B. Lal | |
| CDC Influenza Coordinator | |
| U.S. Embassy, New Delhi | |
| Dr.Sribiju | |
| Nodal officer, | |
| H1N1 surveillance unit | |
| Taluk hospital Tirurangadi | |
| Malappuram,Kerala | |
| drsribiju@gmail.com | |
| Dr. Michael | |
| Nodal officer, | |
| H1N1 surveillance unit | |
| Calicut, Kerala | |
| Dr. S N Madusudana | |
| Prof. Virology | |
| NIMHANS | |

| 2013 | |
|--|--------------------------------------|
| National | International |
| DR. P Rajendran | Dr. Rama Ramani |
| Professor of Virology | Lab for Viral Disease, Wadsworth |
| Sri Ramachandra Medical College, Chennai | Centre |
| | NYS Dept of health, 120 New |
| | Scotland |
| | New York-12208, USA |
| Dr. S Bhattacharya | Dr. Peter Lund |
| Variable energy cyclotron centre Kolkata | Bioscience |
| | University of Birmingham, UK |
| Dr. V M Katoch | Dr. Masato Akiba |
| | National Institue of Animal Health, |
| | Japan |
| | Dr. Keerthi S Gorge |
| | National Institute of Animal Health, |
| | Japan |
| | Prof. Didiee Gosset |
| | Dean of Faculty Medicine |
| | Lille, France |
| | Prof Eric Boulanger |



| Vice president |
|------------------------------|
| Lille, France |
| International relations |
| Prof Vinny Cahill |
| Trinity College Dublin |
| Prof. Michael Bisasi |
| Trinity College Dublin |
| Prof. John Duffield |
| Vice Principal |
| Edinburgh, Napier University |
| Prof. Ross Barnard |
| Director, Biotechnology |
| The University of Queensland |
| Prof. David Springer |
| Washington DC, USA |
| Prof. William J Benjamin |
| Birmingham, Alabama, USA |
| Prof. David Brown |
| Virus Reference Dept |
| London, UK |

| 2014 | |
|---------------------------------|-------------------------------------|
| National | International |
| S. M Chitre | Adriana Darris |
| UM-DAE Centre for Basic Science | Michigan, USA |
| University of Mumbai | |
| Mumbai | |
| Dr. C C Raut | Richard Stone |
| National Institute of Virology | Science Magazine |
| Bangalore Unit | Washington DC, USA |
| | Dr. Ravindranath Nayak |
| | Federation University |
| | Australia |
| | Roger Hewson |
| | PHE-Porton Down/WHOCC |
| | |
| | Prof. Kalai Mathew |
| | Florida International University |
| | Dr. Kenneth Earhart |
| | Director, Global Disease Detection- |
| | India Centre, Centre for Disease |
| | Control (CDC), USA |
| | Padmini Srikantiah |
| | Global Disease Detection- India |
| | Centre, Centre for Disease Control |
| | (CDC), USA |
| | Dr. Jenifer Clark |
| | Science Attache, French Embessy |
| | Dr. Lynette Menezes \AVP |
| | International University of South |
| | Florida |



| Dr. Mark Sawdeman |
|------------------------------------|
| Faculty of Science & Technology |
| Federation University |
| Victoria Australia |
| Janelle Winters |
| American Society for Microbiology, |
| USA |
| Prof. Henry Walke |
| CDC, BSPB |
| Robert Massung |
| CDC, USA |
| Holly Briggs |
| CDC, India |
| Ida Chung |
| CDC, USA |
| William Nicholson |
| CDC, USA |

- 13. Percentage of classes taken by temporary faculty programme-wise information MSc Clinical Virology – 50%
- 14. Programme-wise Student Teacher Ratio: 1:1
- 15. Number of academic support staff (technical) and administrative staff: sanctioned and filled:

| Details | Sanctioned | Filled |
|----------------------|------------|--------|
| Technical Staff | 36 | 36 |
| Administrative Staff | 03 | 03 |

- 16. Research thrust areas recognized by funding agencies
 - i. Diagnostic Virology
 - ii. Human Viral infections
 - iii. Viral Encephalitis
 - iv. Viral Diarrhea
 - v. Respiratory viruses including Influenza
 - vi. Emerging viral infections
 - vii. Epidemiology of viral diseases
 - viii. Translational research in virology
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise:



- National -1 a.
- International funding agencies –1 b.
- **Total grants received-12** c.

Give the names of the funding agencies and grants received project-wise.:

| # | Projects | Agency | TOTAL |
|----|--|-----------------|-----------------|
| | | | (Rupees) |
| 1 | ICMR Virology Network Laboratory (Grade-I) | ICMR-DHR, | |
| | at Manipal -Dr G Arunkumar-PI | MoHFW, GOI | 5,94,06,727.00 |
| | | | |
| | | | |
| 2 | Avian Influenza Project | NCDC MoHFW, | |
| | - | GOI | 2,25,32,982.00 |
| 3 | Development of plasmonic biosensors using | Dept of | , , , |
| | nanosphere lithography and surface enhanced | Biotechnology, | 6,45,000.00 |
| | raman spectroscopy (SERS) for rapid diagnosis | Govt of India | , , |
| | of viral encephalitis | | |
| 4 | "Aetiology of Acute Encephalitis Syndrome | ICMR-DHR, | |
| | (AES) in India and Establishment of ICMR | MoHFW, GOI | 1,00,17,383.00 |
| | sample banks of AES cases" | , | , , , |
| 5 | Evaluation and Development of Antiviral | ICMR-DHR, | 40,98,796.00 |
| | Products from Herbal Source | MoHFW, GOI | |
| 6 | Molecular epidemiology of rotavirus diarrhea | ICMR-DHR, | |
| | in children under five in Southwest India- A | MoHFW, GOI | 27,85,038.00 |
| | hospital and laboratory based study | | |
| 7 | Aetiology of Acute Encephalitis Syndrome | ICMR-DHR, | 29,46,250.00 |
| | outbreak in Gorakhpur, UP 2014 | MoHFW, GOI | |
| 8 | Anti-Viral Herbal Product Development, | ICMR-DHR, | |
| | Coordination of Anti-Rabies Invivo Testing, | MoHFW, GOI | 41,52,841.00 |
| | Safety Studies and Technology Transfer | | |
| 9 | Distribution of Non-Polio Enterovirus | ICMR-DHR, | |
| | serotypes in children with Hand Foot and | MoHFW, GOI | 7,33,360.00 |
| | Mouth Disease (HFMD) in Kerala, Karnataka | | |
| | and Goa States | | |
| | NVBDCP Apex Referral laboratory for | NVBDCP, | |
| 10 | Arboviral diseases (Dengue, JE and | MoHFW, Govt of | 28,64,440.00 |
| | Chikungunya)- Non financial assets (Kits) | India | |
| | UKIERI UK-US-India Trilateral Research in | British Council | |
| 11 | Partnership | Division, UK | 15,22,161.00 |
| | Hospital - Based Surveillance of Acute Febrile | CDC, Atlanta | 2,63,61,494.00 |
| 12 | Illness in Western Ghat Region of India | | |
| | TOTAL (RS) | | 13,80,66,472.00 |

18. Inter-institutional collaborative projects and grants received

All India collaboration



| # | Projects | Agency | TOTAL (Rupees) |
|---|--|--|----------------|
| 1 | Development of plasmonic biosensors using nanosphere lithography and surface enhanced raman spectroscopy (SERS) for rapid diagnosis of viral encephalitis | Dept of Biotechnology, Govt of India | 6,45,000.00 |
| 2 | "Aetiology of Acute Encephalitis Syndrome (AES) in India and Establishment of ICMR sample banks of AES cases" | ICMR-DHR, MoHFW, GOI | 1,00,17,383.00 |
| 3 | Evaluation and Development of Antiviral Products from Herbal Source | ICMR-DHR, MoHFW, GOI | 40,98,796.00 |
| 4 | Molecular epidemiology of rotavirus diarrhea in children under five in Southwest India- A hospital and laboratory based study | ICMR-DHR, MoHFW, GOI | 27,85,038.00 |
| 5 | Anti-Viral Herbal Product Development, Coordination of Anti-Rabies Invivo Testing, Safety Studies and Technology Transfer | ICMR-DHR, MoHFW, GOI | 41,52,841.00 |
| 6 | Distribution of Non-Polio Enterovirus serotypes in children with Hand Foot and Mouth Disease (HFMD) in Kerala, Karnataka and Goa States | ICMR-DHR, MoHFW, GOI | 7,33,360.00 |
| | TOTAL (RS) | | 2,24,32,418.00 |

b) International

| # | Projects | Agency | TOTAL (Rupees) |
|---|---|-----------------|-------------------|
| 1 | UKIERI UK-US-India Trilateral Research in | British Council | |
| | Partnership | Division, UK | 15,22,161.00 |
| | TOTAL (RS) | | 15,22,161.00 |

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.

| # | Projects | Agency | TOTAL (Rupees) |
|---|--|--|----------------|
| 1 | ICMR Virology Network Laboratory (Grade-I) at Manipal -Dr G Arunkumar-PI | ICMR-DHR, MoHFW, GOI | 5,94,06,727.00 |
| 2 | Avian Influenza Project | NCDC MoHFW, GOI | 2,25,32,982.00 |
| 3 | Development of plasmonic biosensors using nanosphere lithography and surface enhanced raman spectroscopy (SERS) for rapid diagnosis of viral encephalitis | Dept of Biotechnology, Govt of India | 6,45,000.00 |
| 4 | "Aetiology of Acute Encephalitis Syndrome | ICMR-DHR, | |



| | (AES) in India and Establishment of ICMR | MoHFW, GOI | 1,00,17,383.00 |
|----|---|------------------------------------|-----------------|
| 5 | sample banks of AES cases" Evaluation and Development of Antiviral Products from Herbal Source | ICMR-DHR, MoHFW, GOI | 40,98,796.00 |
| 6 | Molecular epidemiology of rotavirus diarrhea in children under five in Southwest India- A hospital and laboratory based study | ICMR-DHR, MoHFW, GOI | 27,85,038.00 |
| 7 | Inspire Fellowship programme (Ms. Aswathy Raj S) | (DST), Government of India | 2,31,000.00 |
| 8 | Aetiology of Acute Encephalitis Syndrome outbreak in Gorakhpur, UP 2014 | ICMR-DHR, MoHFW, GOI | 29,46,250.00 |
| 9 | Anti-Viral Herbal Product Development, Coordination of Anti-Rabies Invivo Testing, Safety Studies and Technology Transfer | ICMR-DHR, MoHFW, GOI | 41,52,841.00 |
| 10 | Distribution of Non-Polio Enterovirus serotypes in children with Hand Foot and Mouth Disease (HFMD) in Kerala, Karnataka and Goa States | ICMR-DHR, MoHFW, GOI | 7,33,360.00 |
| 11 | NVBDCP Apex Referral laboratory for Arboviral diseases (Dengue, JE and Chikungunya)- Non financial assets (Kits) | NVBDCP, MoHFW, Govt of India | 28,64,440.00 |
| | TOTAL (RS) | | 11,04,13,817.00 |

20. Research facility/centre with

State recognition

National recognition

- i. Viral Research and Diagnostic laboratory (VRDL)
- ii. Regional Reference Laboratory for Influenza viruses, IDSP, Govt of India
- iii. Apex referral Laboratory for Arbo viruses- MoHFW, Govt of India

International recognition

- i. Cooperative agreement with Centre for Disease Control (CDC), Atlanta, USA.
- ii. UKIERI UK-US-India Trilateral Research in Partnership with Public Health England (PHE) and School of Public Health, University of Alabama at Birmingham, USA.
- iii. Influenza center-Australia (WHO Collaborating Centre for Reference and Research on Influenza at the Victorian Infectious Diseases Reference Laboratory (VIDRL) in Melbourne)

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil

22. Publications:



Number of papers published in peer reviewed journals (national / international): **Eleven**

- Prabhu G, Suresha, Chameettachal Akhil, Anjali Aithal, Dsouza R. Gisella, Bhaskar Revti and Arunkumar. G; Human Coronaviruses in severe Acute Respiratory infection (SARI) cases in southwest India; Journal of Medical Virology, 2015. (in press)
- Sabeena, S., Bhat, P., Kamath, V., Aswathyray, S., Arunkumar, G., Knowledge, Attitude and Practice about Human Papilloma Virus Infection and its health effect among rural women, Karnataka, South India; Asia Pacific Journal of Cancer Prevention, 2015 (in press)
- Revathi R, Venkatesha Perumal R, Pai KSR, Arunkumar G, Sriram D, Kini SG; Design, development, drug- likeness, and molecular docking studies of novel Piperidin-4-imine derivatives as antitubercular agents; Drug Design, Development and Therapy, 2015 (in press)
- Ganjhu, R.K., Mudgal, P.P., Arunkumar, G, 2014. Pharmacological and Phytoconstituent Profile of Desmodium gangeticum-An Update. International Journal of Pharmacognosy and Phytochemical Research, 6(3): 643-657. Impact Factor: 1.095
- Acute flaccid paralysis due to West nile virus infection in adults: A paradigm shift entity Boby Varkey Maramattom, Geetha Philips1, Nittur Sudheesh2, Govindakarnavar Arunkumar2: Ann Indian Acad Neurol 2014;17:85-8
- Vandana KE, Arunkumar G, I Bairy. Role of laboratory in rapid diagnosis of atypical mumps. Braz J Infect Dis. 2010; 14:201-2.
- Wairagkar N, Chowdhury D, Vaidya S, Sikchi S, Shaikh N, Hungund L, TomarRS, Biswas D, Yadav K, Mahanta J, Das VN, Yergolkar P, Gunasekaran P, Raja D, JadiR, Ramamurty N, Mishra AC; Measles Net India (Arunkumar G) collaborators. Molecular epidemiology of measles in India, 2005-2010. J Infect Dis. 2011; 204:S403-13.
- Riyaz N, Sarita S, Arunkumar G, Sabeena S, Manikoth N, Sivakumar CP. Druginduced hypersensitivity syndrome with human herpesvirus-6 reactivation. Indian J DermatolVenereolLeprol. 2012; 78:175-7.
- Arunkumar G, Vandana KE, Sathiakumar N. Prevalence of measles, mumps, rubella, and Varicella susceptibility among health science students in a University in India. Am J Ind Med. 2012 Mar 29. doi: 10.1002/ajim.22046.
- Bhat HV, Kamath R, Arunkumar G, Delzell E, Tipre M, Upadhyay DK, Sathiakumar N. MPH programme at Manipal University, India-experiences, challenges, and lessons learned. Am J Ind Med. 2012 Mar 29. doi:10.1002/ajim.22045.
- **Monographs:** Nil
- **Chapters in books:** Nil



- **Edited books : Nil**
- * Books with ISBN with details of publishers: Nil
- Number listed in International Database (For e.g., Web of Science, Scopus, Humanities International Complete, Dare Database - International Social **Sciences Directory, EBSCO** host, etc.): 5
- * Citation Index range / average : 30
- * SNIP: --
- SJR: --
- **Impact Factor range / average:** 0.98 1.63 (1.41)
- h-index-3
- 23. Details of patents and income generated: Nil
- 24. Areas of consultancy and income generated: Nil
- 25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad
 - i. Dr G Arunkumar visited CDC Atlanta 2012
 - ii. Dr. G Arunkumar visited Arboviral disease branch, Fort Collins, Colarado, USA from 29 April to 3 May 2013.
- iii. Dr. G Arunkumar visited Foundation Merieux, Veyrier du Lac, Les Pensieres, France during 3-9 Nov 2013.

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other
 - ICMR Project review committee (Virology)
 - d. Dr G Arunkumar
 - Chairman BOS Medical Microbiology, University of Kannur
 - e. Dr G Arunkumar

27. Faculty recharging strategies:

Targeted training:



- i. Selected project staffs were attended training on 'Epidemiology and outbreak Investigation' held at National Institute of Epidemiology (NIE), Chennai on 20-25 February 2011.
- Workshop on literature search A workshop on 'effective literature search' by DrVasumathiSreeganesh, CEO, QMed Knowledge Foundation, Mumbai, on 28 July 2011 for the entire project scientific staff and students at Manipal Centre for virus research, Manipal.
- iii. Dr. Sabeena S, Research Scientist-II (Medical), Mr. Anirban Sanyal& Sreeraj Surendran, Research Assistant, attended the "National Workshop on Statistical **Epidemiology**" at Department of Statistics, Manipal University from 1-4 August 2011
- **Training at NIV Pune:** Dr Jiji George and Dr Ashok G (Research Scientist I&II) attended workshop on 'advances in Electron Microscopy in Virology research and 3D imaging' on 20-21 October 2011. They also interacted with NIV staff on various issues related to Virology.
- National Workshop on Statistical Analysis Using 'R': Dr Sabeena S (Research scientist-Med-II), MrSreeraj Surendran (Research Assistant) and Mrs Anitha J (Senior Research Fellow) attended the 'national workshop on Statistical epidemiology' on 26-27 May 2012 at Department of Statistics, Manipal University, Manipal.
- vi. Quality Management System and Internal Audit Training as per ISO-15189-**2007 and NABL 112 Requirement:** Dr Ashok G (Research Scientist I), Ms Ashwathy Raj (Research Assistant), Mrs Laveena Kotian (Laboratory Technician) and Mr. Sandeep (Data Entry Operator) attended the Training workshop on Quality Management System and Internal Audit Training as per ISO-15189-2007 and NABL 112 Requirement held at Kasturba Medical College, Mangalore from 1-4 Aug 2012.
- Workshop on VIRUS 2012: Mr. Sreeraj Surendran, Research Assistant is vii. attending 'Workshop on VIRUS 2012' at PGIMER, Chandigarh, from 3-5 September 2012.
- viii. DVR organized -WHO Hands on training Workshop on Influenza Surveillance, **Diagnosis and Control** from 17-21 September 2012.
- Workshop on "Recent Advances in Rabies Diagnosis and Prophylaxis" as a part of World rabies day activities on 1 October 2012.
- x. **Dr. Arunkumar** selected was as a fellow participant in the "FOURTH Advanced



- course in Diagnostics. The course was held in Veyrier du Lac, Les Pensières (France) from 3 to 9 November 2013. Organized by Fondation Mérieux. He also visited the Diagnostic Virology Laboratory of School of Medicine, University Lille-2. France.
- xi. Dr. Arunkumar was invited to participate in Arbovirus Diagnostics and Surveillance Training Course at Arboviral Disease Branch, Fort Collins, Colarado, USA from 29th April to 3rd May 2013.
- xii. Ms. Anitha J, Research scientist-I and Mr. Santhosh (Research Assistant) attended short course on "industrial training in Bioinformatics" at RASA life science informatics, pune from 15 June 2013 to 15 July 2013. Research staff also attended training on Molecular Biotechnology at GeneOmbio Technologies, Pune from 15 July 2013 to 20 July 2103
- xiii. Aswathy Raj, Research Assistant and Suresh G Prabhu, Research Assistant of Department of Virus Research attended training and acquaintance with special emphasis on zoonotic disease detection in animals including Brucellosis in DRDD laboratory Jalandhar from 21 to 24th December 2013.
- Ms. Anitha Jagdesh, Research Scientist-I and Mr. Santhosha Devadiga, Research Assistant of MCVR attended "Training program on Ebola Laboratory diagnosis" held at National Institute of Virology(NIV), Pune from 10th to 14th November 2014 as a part of Ebola preparedness plan in the country
- Dr. Sabeena S, Research scientist II(Medical) and Ms. Anitha J, Research scientist-I of MCVR were selected to attend the conference of International Union of Microbiological Societies held at Montreal, Canada during 27 July-1August 2014. They presented a poster on "A population based study of Human Papilloma Virus (HPV) infection among women in rural village in South India" and "Characterisation of Influenza virus Neuraminidase Gene" respectively.
- Dr. Kiran Chandra B, Research scientist I(Medical), Mr. Anup Jayaram, Research Assistant and Mr. Santhosha D, Research Assistant of MCVR were selected to attend the 38th National Conference of the Indian Association of Medical Microbiologists, MICROCON 2014 held at Birla Auditorium Jaipur, Rajasthan, India from 15th - 19th October 2014. They presented paper titled "Epidemiological characteristics of laboratory confirmed Measles in south west India – a retrospective study", "Aetiology of Acute Encephalitis Syndrome (AES) in South-West India- 2013" and "Molecular epidemiology of Rotavirus diarrhea in children under five years in Southwest India" respectively.
- xvii. Ms. Revti Bhaskar, Ms. Giselle Raisa D'souza and Ms. Anjali Aithal (Research



- Assistants) were attended the presented the paper at the VIROCON 2014-XXIII National conference held at Tamilnadu Agricultural Coimbatore during December 18-20 2014.
- Mr.Suresha Prabhu and Mr. Akhil C (Research staffs) were attended "Basic xviii. training on Epidemiology for Veterinaries with special emphasis on brucellosis surveillance" at NIVEDI Bangalore from 1-5 December 2015.
 - Ms. Revti Bhaskar and Ms. Giselle Raisa D'souza (Research Assistants) were xix. attended Basic Epidemiology workshop at NIVEDI Bangalore from 2-6 Feb 2015.
 - Ms. Anitha J, Leturer attended and presented the poster at the Indo-French CEFIPRA Seminar on women in science held at Indian Institute of science, Bangalore during 3-5 Feb 2015.
 - Dr. G Arunkumar and Mr. Santhosha Devadiga attended and presented on 31st xxi. annual Clinical Virology symposium in Daytona Beach, Florida from 25-29 April 2015.
- Ms. Revti Bhaskar and Ms. Giselle Raisa D'souza (Research Assistants) were xxii. attended training on Basic Epidemiology at NIVEDI Bangalore from 2-6 Feb 2015.
- xxiii. Mr. Anup Jayaram and Ms. Anjali Aithal (Research Assistants) were attended training on Basic Epidemiology at NIVEDI Bangalore from 2-6 Feb 2015.
- Dr. Sabeena S, Assistant professor, Dr. Kiran Chandra HB & Mr. Santhosha xxiv. Devadiga were attended training on Outbreak investigation at NIVEDI Bangalore from 16-19 June 2015.

28. Student projects

i. Percentage of students who have done in-house projects including interdepartmental projects:100%

A. Name of the Completed projects in 2014:

- a) Viral Etiologies of lower Respiratory Tract infection in Children below 2 years of age submitted by Ms. Polakshee Gogoi
- b) Prevalence of Acyclovir resistance among clinical isolates of Herpes Simplex virus A Retrospective study submitted by Mr. Sudheesh Nair
- c) Influenza virus activity in north Kerala; during a period of January 2010-December 2011- A Retrospective study submitted by Aswathy Raj S
- d) Chikungunya encephalitis in South West India submitted by Mr. Santhosha



- e) Distribution of Respiratory Syncytial Virus (RSV) among elderly adults with Influenza – Like Illness (ILI) submitted by Anjali Aithal
- f) Distribution of DEN-3 Genotypes in Karnataka state, India 2012 submitted by Revti Bhaskar
- g) Molecular epidemiology of Adenovirus infections reported at Manipal Centre for Virus Research during 2011 – 2013 submitted by Akhil C K
- h) Distribution of Non-Polio Enteroviruses among children presenting with Acute Febrile Illness (AFI) in South-West India submitted by Giselle Raisa D'souza
- i) Application of Google Maps & GIS mapping technologies in a Dengue Surveillance System for Karnataka State, India to generate Dengue Risk Map (DRM) based on environmental factors submitted by Hindol Maity
- j) Distribution of Corona viruses in Severe Acute Respiratory tract Infections (SARI) in South-West India: A retrospective study submitted by Suresh Prabhu

B. Ongoing projects:

- 1. Exploration of in vitro antiviral and immunomodulatory effects (in vitro and in vivo) of a few selected phenolic phytoconstituents by Rithu Paul Stansilaus
- 2. Prevalence of Genital Chlamydia and Gonococcal infection among women in the age group of 18-65 years from Udupi district, Karnataka by Anjana K.
- 3. Molecular epidemiology of Noroviruses GII among children with Acute Diarrhoeal diseases in Southwest India by Riya
- 4. Detection and analysis of all cell culture induced substitutions in Influenza A(H3N2) virus Neuraminidase gene by Vahid Rajabali Zadeh Kashani
- projects collaboration with ii. **Percentage** of students doing in other universities/industry/ institute: 0

29. Awards/recognitions received at the national and international level by

- **Faculty**: Nil
- Doctoral / post-doctoral fellows :
 - Aswathy Raj. S, Research Assistant DVR has received Award of INSPIRE Fellowship to the Research Students [0373-2013] under Department of Science & Technology (DST), GOI
 - Mr. Akhil C, Research Assistant DVR has received Award of INSPIRE Fellowship to the Research Students [0373-2013] under Department of Science & Technology (DST), GOI

• Students:

Ms. Polakshee Gogoi has received scholarship under the scheme of Post-Graduate



Indira Gandhi scholarship for single girl child under UGC, GOI

- 30. Seminars/Conferences/Workshops organized and the source funding (national/International) with details of outstanding participants, if any.
 - i. A two day national hands-on workshop on Molecular Viral Diagnostics was conducted at the department on 23rd and 24th of October 2010. The Workshop was sponsored by Fast Track Diagnostics, Luxemburg
 - Workshop on literature search A workshop on 'effective literature search' ii. by Dr. Vasumathi Sreeganesh, CEO, QMed Knowledge Foundation, Mumbai, on 28 July 2011 for the entire project scientific staff and students at Manipal Centre for virus research, Manipal
 - iii. ANNUAL NOBEL UPDATE was jointly organized by the Department of Pharmacy Practice, Manipal College of Pharmaceutical Sciences (MCOPS) and the Manipal Centre for Virus Research (MCVR) on 27th November 2010, 5th November 2011, March 2 2013
 - 'WHO Hands on training Workshop on Influenza Surveillance, Diagnosis iv. Control' on 17-21 September 2012 at MCVR, Manipal, funded by WHO-India office under WHO's Direct Finance Cooperation mechanism
 - 'Workshop on basic Virological Techniques' exclusively for Microbiology v. Post Graduate students (MSc and MD) of Manipal University at MCVR, Manipal.
 - Workshop on "Recent Advances in Rabies Diagnosis and Prophylaxis" as a vi. part of World rabies day activities on 1 October 2012.
 - DVR conducted training workshop on Basic course in PCR techniques from 2nd vii. -4th Sept 2013 and also 3-5 February 2014 on payment basis to MSc (Micro/Biochem); MD (Micro), DCP, BSc/MSc(MLT), Jr. faculties of Various institutes.
 - viii. DVR conducted training workshop on Basic course in Virological techniques from 16-21 September 2013 to MSc (Micro) & MD (Micro) students of KMC, MU.
 - DVR conducted training workshop on Basic course in Virological techniques ix. from 23-28th September 2013 to MSc (Micro) & MD (Micro) students of KMC, MU.
 - DVR conducted training workshop on **Advanced** course in PCR х. -4th **Techniques** from Sept 2013. March 2014, 27-31 Oct 2014 and also 8-13 June 2015 on payment basis to MSc



- (Micro/Biochem); MD (Micro), DCP, BSc/MSc(MLT), Jr. faculties of Various institutes.
- xi. DVR conducted training workshop on Basic course in Virological techniques from 18-23 November 2013, 20-25 January 2014, 9-14 June 2014 and 9-14 Feb 2015 on payment basis to MSc (Micro) & MD (Micro) students of Medical Colleges, Jr. Faculty, Research fellows, etc of various institutes.
- DVR conducted training workshop on Basic course in Virological techniques xii. from 3-8 November 2014 to MSc (Micro) & MD (Micro) students of KMC, MU.
- DVR conducted training workshop on advanced course in Diagnostic Virology xiii. from 16-21 December 2013, 18-23 Aug 2014 and also 13-18 April 2015 on payment basis to Microbiology Faculty, Research Scientists (ICMR labs etc), of various institutes.

31. Code of ethics for research followed by the departments

Follows Manipal University Research Ethics guidelines, Research policy and Policy on research misconduct.

32. Student profile course-wise:

| Name of the Course | Applications received | Selected | | Pass p | ercentage |
|---------------------------|--------------------------|----------|-------------|--------|-----------|
| (refer to question no. 4) | | Male | Female | Male | Female |
| MSc Clinical Virology | 16 | | | | |
| 2010-2011 | (specific applications) | 2 | 2 | 100% | |
| | | | | 100% | |
| 2011-2012 | 360 (general application | 4 | 4 | | |
| | for MSc programmes) | | | 100% | |
| | | | | 100% | |
| 2012-2013 | 45 | 2 | 4 | | |
| | (specific applications) | | | | |
| | | | | 100% | |
| 2013-14 | 51 | 1 | 4 | 100% | |
| | (specific applications) | | | | |
| 2014 15 | 122 | 0 | 4 | 1000/ | |
| 2014-15 | 132 | U | 4 | 100% | |
| | (specific applications) | | | 100% | |
| 2015-16 | 177 | | | | |
| 2013-10 | (specific applications) | Admis | ssion | | |
| | (specific applications) | proces | ss is going | | |
| | | on | 6°6 | | |
| | | OII | | | |

33. Diversity of students



| Name of the Course (refer to question no. 4) | students | from other | % of students from universities outside the State | students |
|---|----------|------------|---|----------|
| MSc Clinical Virology | 32 | 8 | 52 | 8 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.—

One

35. Student progression

| Student progression | Percentage enrolled | against |
|-------------------------------|---------------------|---------|
| UG to PG | • | |
| PG to MPhil | - | |
| PG to PhD | 2 | |
| PhD to Post-Doctoral | - | |
| Employed | - | |
| Campus selection | 8 | |
| Other than campus recruitment | 5 | |
| Entrepreneurs | - | |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| of the same University | 75% |
| from other universities within the State | |
| from universities from other States | 25% |
| from universities outside the country | |

- Number of faculty who were awarded PhD, DSc and DLitt during the assessment 37. period: Nil.
 - 38. Present details of infrastructural facilities with regard to
 - a) Library: Yes
 - b) Internet facilities for staff and students: Yes
 - c) Total number of class rooms: Two



- d) Class rooms with ICT facility: Yes
- e) Students' laboratories: Yes
- f) Research laboratories: Yes

39. List of doctoral, post-doctoral students and Research Associates (Research fellows)

- a) from the host University:
 - i. Mr. Santhosha
 - ii. Mr. Sudheesh N
- iii. Ms. Aswathy Raj
- iv. Mr Suresh Prabhu
- v. Mr Akhil C
- vi. Ms. Giselle D'Souza
- vii. Ms. Revti Bhasker
- viii. Ms. Anjali Aithal
- ix. Mr. Hindol Maity
- x. Mr. Jazeel AbdulMajeed
- b) from other universities:
 - i. Mr. Anup Jayaram Research Assistant University of Madras,
 - ii. Mr. Deepu Dowhra Research Assistant University of Pune

40. Number of postgraduate students getting financial assistance from the University:

Two candidates availed scholarships under scheme scholarship for Konkani speaking students.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. Qualitative assessment based on the potential need for trained virologist in the light of Department of Health Research (DHR), ICMR, establishing 30 grade-1 and 200 Grade-II viral diagnostic laboratories across the country in the 12th five year plan. National Institute of Virology is the only other Institution in the country offering the same course.

42. Does the department obtain feedback from



a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

We regularly obtain feedback on staff/teaching learning/curriculum from students and incorporate progressive suggestions during the programme curriculum review held annually.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

We regularly obtain feedback feedback on staff/teaching learning/curriculum from students and incorporate progressive suggestions during the programme curriculum review held annually.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Feedback collection is in the process

43. List the distinguished alumni of the department (maximum 10). NA

- details 44. Give of student enrichment (special programmes lectures/workshops/seminar) involving external experts.
 - i. DVR conducted workshop on effective literature search by Mrs. Vasumathi Sriganesh, CEO, QMed Knowledge Foundation on 28th July 2011
 - ii. DVR organizing 'Workshop on basic Virological Techniques' exclusively for Microbiology Postgraduate students (MSc and MD) of Manipal University for every year in MCVR, Manipal
 - iii. DVR in association with Department of Pharmacy Practice, Manipal College of Pharmaceutical Sciences (MCOPS) host an annual signature event called 'Annual Nobel update' since 2010. The update will present an overview of current year's Nobel Prize in Physiology and Medicine, Physics and Chemistry.
 - 'Workshop on basic Virological Techniques' exclusively for Microbiology Post iv. Graduate students MSc (Micro), (Virology) & MD (Micro) of Manipal University at MCVR, Manipal during sept 2012.
 - Workshop on "Recent Advances in Rabies Diagnosis and Prophylaxis" as a v. part of World rabies day activities on 1 October 2012.
 - 'Workshop on basic Virological Techniques' exclusively for Microbiology vi.



- Post Graduate students (MSc (Micro), (Virology) & MD (Micro) at MCVR, Manipal during sept 2013.
- vii. DVR conducted training workshop on Basic course in Virological techniques from 3-8 November 2014 to MSc (Micro), (Virology) & MD (Micro) students of KMC, MU.
- viii. DVR Conducted guest lecture by Roger Hewson from WHO collaborating centre for Viral Hemorrhagic Fevers, Public Health England. Porton Down, UK on "Risk assessment of Crimean Congo Hemorrhagic Fever (CCHF) in Mongolia" on 10 July 2014.
- ix. DVR Conducted guest lecture by Roger Hewson from WHO collaborating centre for Viral Hemorrhagic Fevers, Public Health England. Porton Down, UK on "Viral Hemorrhagic Fever (VHF)s and logistics in dealing with a human disease" on 10 July 2014).
- DVR conducted Guest Lecture on "Contact tracing the method to stop EBOLA х. Transmission" by Dr. Ashley L Greiner, Epidemic Intelligence Service officer, Division of global Health protection, Centre for Global health, CDC) on 30 May 2015.

45. List the teaching methods adopted by the faculty for different programmes.

- Didactic lecture
- Student presentation
- Discussion
- **Group Discussion**
- Case studies
- Laboratory work
- **Projects**

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

At the end of the third semester a thorough assessment is done during the comprehensive examination with external experts and it is addressed during the fourth semester.

47. Highlight the participation of students and faculty in extension activities.

- Organized 'Nobel Updates' in November, 2010, 2011, 2013 and 2014
- Organized and participated in World Rabies Day Walkathon in September 2012, 2013,



2014

48. Give details of "beyond syllabus scholarly activities" of the department.

Department is a reference laboratory for Influenza viruses and an ICMR Grade-I virology laboratory. Students are trained using a 'do and learn' approach. Students are involved in various training, research and diagnostic activities undertaken by the department from time to time.

49. State whether the programme/department is accredited/graded by other agencies? If yes, give details.

No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Being a regional reference laboratory for Influenza viruses and an ICMR grade-I virology laboratory, our centre has significantly involved in generating new information regarding the etiology of Acute Respiratory Infections (ARI) and Acute Encephalitis Syndrome (AES). We also support the national, state and district public health services by providing laboratory support to viral outbreak investigations and viral disease surveillance.

51. Future plans of the department

We intent to transform the centre into an Institution of excellence in the area of virus research with special reference to human viruses and to become a WHO collaborative centre for Respiratory viruses.

• Infrastructure

The department is planning to add a Biosafety Level-3 (BSL-3) laboratory and an Electron Microscopy facility in the near future.

Accreditation

The process of NABL accreditation of the laboratory has started and the target date is 31 March 2016.

• International Collaborations

- Cooperative agreement with Centre for Disease Control (CDC), Atlanta, USA.
- o UKIERI UK-US-India Trilateral Research in Partnership with Public Health England (PHE) and School of Public Health, University of Alabama at Birmingham, USA.



- o Influenza centre-Australia (WHO Collaborating Centre for Reference and Research on Influenza at the Victorian Infectious Diseases Reference Laboratory (VIDRL) in Melbourne)
- o World Health Organization- India office, New Delhi.

• PhD Programme in Virology

Four PhD students registered for PhD

• Development of strategic research groups within the centre

We absorbed the 3 temporary faculty members as permanent staff and propose to nurture others in the near future to form strategic research groups in basic virology, development of diagnostics, vaccine development, antiviral drug development, public health virology and training in virology.

52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- 1. Infrastructure and research funding
- 2. Committed faculty and staff
- 3. Confidence of National and State Public health systems
- 4. International collaborations
- 5. Public Private Partnership (PPP)

Weakness

- **1.** Inadequate visibility of the postgraduate programme
- **2.** Over dependence on external funding than sustenance by revenue generation
- **3.** Predominantly the research focus is limited to diagnostic virology

Opportunities

- 1. Ability to provide evidence for national policy/decision making hence influencing the same
- 2. International collaborations with world's leading institutions/organization in virus research
- 3. Becoming a leader in diagnostic virology, virus research and virus discovery
- 4. Faculty exchange programmes
- 5. Achieving the status of WHO collaborating centre for emerging viral diseases

Challenges

- 1. Increasing the utilization of services by the State and regional public health system
- 2. Increasing the national and international visibility of the centre and its PG programme
- 3. Retaining trained man power
- 4. Attracting world class faculty/researchers to the department



- 1. Name of the Department: Department of Library and Information Science
- 2. Year of establishment: August, 2011
- 3. Is the Department part of a School/Faculty of the university?

Yes, KMC, Manipal

- 4. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
 - a. Certificate Course in Library and Information Science (C.L.I.Sc.)
 - b. M.Sc. Library and Information Science
 - c. Ph.D.
- 5. Interdisciplinary courses and departments involved:

Nil

6. Courses in collaboration with other universities, industries, foreign institutions, etc.:
Nil

7. Details of programmes / courses discontinued, if any, with reasons:

Nil

8. Annual/ Semester/Choice Based Credit System:

Semester Scheme

9. Participation of the department in the courses offered by other departments:

Nil

10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professor | 0 | 0 |
| Associate Professors | 3 | 3 |
| Asst. Professors | 0 | 0 |

11. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

| S1. | Name | Qualificatio | Designation | Specialization | No. of Years of | No. of |
|-----|------|--------------|-------------|----------------|-----------------|--------|
|-----|------|--------------|-------------|----------------|-----------------|--------|



| # | | n | | | Experience | Ph.D. students guided for the last 4 years |
|---|------------------------------|------------------------|--------------|---|---|--|
| 1 | Dr. Shivananda Bhat K. | BSc.,MLISc ., Ph.D. | Assoc. Prof. | Library Organization, Cataloguing, literature Search | Experience in teaching: 04 Years. Experience in librarianship: 25 years | |
| 2 | Dr. Mahabaleshwara Rao | MA.,MLISc. , Ph.D. | Assoc. Prof. | Information Sources, Information Technology, Library Management, Electronic Information Sources, Information Literacy | Experience in teaching: 04 Years Experience in librarianship: 15 years | |
| 3 | Dr. Rekha D.Pai | BSc.,MLISc ., Ph.D. | Assoc. Prof. | Library Classification, information Retrieval, Information Systems, Literature Search | Experience in teaching: 04 Years Experience in librarianship: 21 years | |

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors:

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information:
Nil

- 14. Programme-wise Student Teacher Ratio:
 - a. M.Sc.Library & Information Science 10:3
 - b. Certificate Course in Library and Information Science (C.L.I.Sc.): 16:3
- 15. Number of academic support staff (technical) and administrative staff: sanctioned and filled: Nil
- 16. Research thrust areas recognized by funding agencies: Nil
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise: Nil



- 18. Inter-institutional collaborative projects and grants received:
 - a) All India collaboration: Nil b) International: Nil
- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received: Nil
- 20. Research facility / centre with:
 - state recognition: Nil
 - national recognition: Nil
 - international recognition: Nil
- 21. Special research laboratories sponsored by / created by industry or corporate **bodies:**

Nil

22. Publications:

- Number of papers published in peer reviewed journals (national / international):
 - Total: 8 (National; International)
- Monographs: Nil
- Chapters in Books: Nil
- Edited Books: 1
- Books with ISBN with details of publishers: Nil
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 2
- Citation Index range / average: Nil
- SNIP: 0.332
- SJR: 0.203
- Impact Factor range / average: Nil
- h-index: 1
- 23. Details of patents and income generated: Nil
- 24. Areas of consultancy and income generated: Nil
- 25. Faculty selected nationally/ internationally to visit other laboratories in India and



abroad: Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify): Nil
- 27. Faculty recharging strategies: Participating in conferences, Seminars, Workshops etc.

28. Student projects:

- percentage of students who have done in-house projects including inter-departmental projects - Nil
- percentage of students doing projects in collaboration with other universities / industry
 / institute Nil
- 29. Awards / recognitions received at the national and international level by:
 - Faculty Nil
 - Doctoral / post doctoral fellows Nil
 - Students Nil
- **30.** Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. :

No. of Conference organized - 1

Source of funding - Self generated fund

31. Code of ethics for research followed by the departments:

As set by university ethics committee

32. Student profile course-wise:

| Name of the Course | Applications | Selected | Pass percentage |
|---------------------------|--------------|-------------|-----------------|
| (refer to question no. 4) | received | Male Female | Male Female |
| C.L.I.Sc. | 16 | Male: 1 | 100% |
| | | Female: 15 | |
| M.Sc.Library & | 10 | Male:5 | 100% |
| Information Science | | Female: 5 | |



33. Diversity of students

| Name of the | % of | % of students | % of students | % of students |
|--------------------|------------|---------------|---------------|---------------|
| Course | students | from other | from | from other |
| (refer to question | from the | universities | universities | countries |
| no. 4) | same | within the | outside the | |
| | university | State | State | |
| C.L.I.Sc. | - | 100 | 100 | - |
| M.Sc.Lib&Inf.Sc. | 80 | - | 20 | - |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Nil.

35. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | - |
| PG to M.Phil. | - |
| PG to Ph.D. | 20% |
| Ph.D. to Post-Doctoral | - |
| Employed | |
| Campus selection | |
| Other than campus recruitment | 100% |
| Entrepreneurs | - |

36. Diversity of staff

| Percentage of faculty who are graduates | | | | |
|--|-----|--|--|--|
| of the same university | | | | |
| from other universities within the State | 100 | | | |
| from universities from other States | | | | |
| from universities outside the country | | | | |

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period:

Nil

- 38. Present details of infrastructural facilities with regard to
 - a) Library: Available
 - b) Internet facilities for staff and students: Available
 - c) Total number of class rooms: 4 (3 class rooms and 1 seminar room)
 - d) Class rooms with ICT facility: 3
 - e) Students' laboratories: 1 (computer lab for practical)



f) Research laboratories: Nil

39. List of doctoral, post-doctoral students and Research Associates

a) from the host university: Nil

b) from other universities: Nil

40. Number of post graduate students getting financial assistance from the university:

2

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Before commencement of the programme, syllabus has been sent to the academicians of other Universities for their feedback. The programme structure, syllabus, mode of delivery etc. have been discussed in the dept. and then presented to the Board of Studies. Some of the external academicians (from other Universities) regularly involved in this exercise are:

- a. Dr. Mahesh V. Mudhol, Associate Professor and Chairman, Dept. of Library and Information Science Mangalore University, Konaje, Mangalore 574 199
- a. Dr. Chandrashekara M., Associate Professor, Dept. of Studies in Library and Information Science, University of Mysore, Manasagangotri, Mysore 570 006
- b. Prof. K. Padmini, Professor, Dept. of Library & Information Science, Sri Venkateswara University, Tirupati
- a. Dr. Humanyoon Kabir S., Reader, Dept. of LIS, University of Kerala, Trivandrum

42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - Yes; feedback is obtained regarding syllabus, method of teaching, delivery &evaluation,etc
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - Department obtaining feedback from students on staff
- c. alumni and employers on the programmes offered and how does the department utilize the feedback? : --

43. List the distinguished alumni of the department (maximum 10): --



44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. : -

Information Literacy Programs Conducted

| Sl. # | Торіс | Date of Information Literacy Program | Resource Person/Trainer |
|-------|---|---|---|
| 1. | On site Demonstration on Access Medicine | 25.4.2014 | Mr. Sivamay Bhattacharya McGraw-Hill |
| 2. | Session on Web of Science | 23.6.2014 | Mr. Basha Kodidela Thomson Reuters, Bangalore |
| 3. | Session on CINHAL Plus with Full Text | 23.9.2014 | Mr. D.T. Edwin Training Manager EBSCO Information Services Pvt. Ltd., Bangalore |
| 4. | Literature Search Using Online Databases | 14.11.2014 | Mr. Ankit Kapoor Training Manager Wolters Kluwer, New Delhi |
| 5. | Searching Medical Literature for the Best Clinical Evidence | 24.12.2014 | Mr. Faizan Ahmed UpToDate, New Delhi |

Workshops Conducted

| Sl. # | Topic | Date of Workshop | Resource Person/Trainer |
|-------|--|---------------------|---|
| 1. | Half Day Author Workshop on "How to Get Published" | 10.12.2014 | Dr. Anitha Jain, India Editor BMJ And Mr. Rajiv Kumar, Training Manger, BMJ |

45. List the teaching methods adopted by the faculty for different programmes. :

- Group discussions
- Seminars
- Practicals
- Power Point presentations, etc.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Performance and quality of students regarding their knowledge are measured by evaluators during assignments, sessional examinations, seminar presentations, practical and university examination.



47. Highlight the participation of students and faculty in extension activities.

Students are involved in providing the library services (reference, literature search using electronic information resources) to the users

48. Give details of "beyond syllabus scholarly activities" of the department.

Conference/seminar presentation, attending workshops, publishing articles in journals, online database demonstration, library orientation to the users, information literacy programs etc.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Part of University certification for ISO 9001:2008 and ISO 14001:2004

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

PhD program, publications, students projects, field work reports, paper presentations in conferences/seminars.

51. Future plans of the department.

- Conducting at least 5 information literacy programs in a year
- Organising one conference/seminar once in two years
- Organising 1 workshop in a year

52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

- Strength:
 - ➤ All faculty members with Ph.D. degree
 - ➤ World class library and resources
 - ➤ Practice lead teaching & practice supported learning
 - ➤ Hands on training using online and offline resources
 - ➤ Computing, Internet, Library software training facilities
- Weakness:
 - > Difficulty in getting good quality students
 - ➤ Difficulty in placement for the students

EVALUATIVE REPORT OF THE DEPARTMENT



- Opportunities:
 - > Scope for developing information literacy skills among the users in accessing the various electronic resources
- Challenges:
 - > Getting quality students.



- 1. Name of the Department: Manipal College of Dental Sciences, Manipal
- 2. Year of establishment: 1965
- 3. Is the Department part of a school/faculty of the university?

YES (Manipal University)

- 4. Names of programs offered (UG, PG, Pharm D, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.)
 - a. Undergraduate programs: B.D.S
 - b. Postgraduate programs: M.D.S/PG Diploma programs
 - Oral medicine and radiology
 - Conservative dentistry and endodontics
 - Periodontology
 - Oral and maxillofacial surgery
 - Prosthodontics and crown and bridge
 - Pedodontics and preventive dentistry
 - Orthodontics and dentofacial orthopedics
 - Public health dentistry
 - Oral pathology and microbiology
 - PG Diploma program in Dental Materials
 - c. Post graduate certificate Course:
 - Implantology
 - Laser dentistry
 - Esthetic dentistry
 - d. Diploma program
 - Diploma in Dental Mechanics
 - Diploma in Dental Hygienist
 - e. Ph.D. Program

5. Interdisciplinary programs and departments/institutions involved

a. MDS program in different specialties involves clinical posting in various medical specialties

| S.No | Program | Departments involved (other than core specialty) |
|------|--------------------------------|--|
| 1 | MDS Oral medicine and | Dermatology, radiodiagnosis and |
| | radiology | radiotherapy clinics |
| 2 | MDS Conservative dentistry and | - |



| | endodontics | |
|---|--------------------------------|---------------------------------------|
| 3 | MDS Periodontology | Implantology |
| 4 | MDS Oral and maxillofacial | General medicine, surgical oncology, |
| | surgery | Ophthalmology, Neurosurgery, ENT, |
| | | anaesthesia and orthopaedics |
| 5 | MDS Prosthodontics and crown | Implantology |
| | and bridge | |
| 6 | MDS Pedodontics and preventive | Pediatrics Department |
| | dentistry | |
| 7 | MDS Orthodontics | - |
| 8 | MDS Public health dentistry | - |
| 9 | MDS Oral pathology and | Oral medicine and radiology, Oral and |
| | microbiology | maxillofacial surgery, dermatology, |
| | | microbiology and clinical haematology |

b. PG Diploma in Dental Materials is an interdisciplinary program which involves various departments from engineering specialties.

| S.No | Program | Departments involved (other than core |
|------|--------------------------------|---|
| | | specialty) |
| 1 | PG Diploma in Dental Materials | Department of Physics |
| | | Department of Chemistry |
| | | Department of Civil engineering |
| | | Manipal Institute of Technology, |
| | | Manipal University, Manipal |

- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.
 - Certificate course in Implantology with IGNOU (Indira Gandhi National Open University), India.
- 7. Details of programs discontinued, if any, with reasons NIL

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

- The examinations for all the courses offered by the institute are conducted annually. However, the examination system for the Final year BDS program is semester based (Part I and Part II)
- Evaluation of Certificate programs is conducted at the end of contact sessions



(Module system)

- No annual examination system is followed for PhD program
- a. Participation of the institution in the courses offered by other institutions
- College is actively involved in conducting the training and assessment of IQE examination

9. Number of teaching posts sanctioned, filled and actual (Professors/Associate **Professors/Asst. Professors/others**)

| | Sanctioned | Filled |
|-----------------------------|------------|--------|
| Professor | 06 + 12 | 19 |
| Associate Professor/Reader | 13 + 24 | 23 |
| Assistant Professor | - | 15 |
| Selection grade lecturer | - | 02 |
| Lecturer | 40 + 12 | 01 |
| Tutor / Clinical Instructor | - | 13 |
| Senior Resident | - | - |

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance (<u>Details as on 31st December 2014</u>)

| S.No | Name | Qualification | Designation | Specialization | No. of Years of Experience | | |
|------|--|---------------|-----------------------|--|----------------------------|--|--|
| | Department of Oral Medicine and Radiology | | | | | | |
| 1 | Dr. Keerthilatha M Pai | MDS | Professor and Head | Oral Medicine and Radiology | 22 | | |
| 2 | Dr. Vineetha R | MDS | Assoc. Prof. | Oral Medicine and Radiology | 06 | | |
| 3 | Dr. Yogesh Chhaparwal | MDS | Reader | Oral Medicine and Radiology | 05 | | |
| 4 | Dr. Shruti Acharya | MDS | Asst. Prof. | Oral Medicine and Radiology | 03 | | |
| 5 | Dr. Nanditha Sujir | MDS | Asst. Prof. | Oral Medicine and Radiology | 02 | | |
| 6 | Dr. Cyril Puliyan Varghese | BDS | Lecturer | - | 02 | | |
| 7 | Dr. Nitish Mathur | BDS | Lecturer | - | <01 | | |
| | Department of Conservative Dentistry and Endodontics | | | | | | |
| 8 | Dr. Shashi Rashmi Acharya | MDS | Professor | Conservative Dentistry and Endodontics | 17 | | |



| | | | | | No. of |
|------|--------------------|---------------|----------------|----------------|------------|
| S.No | Name | Qualification | Designation | Specialization | Years of |
| | | | 0 | | Experience |
| | | MDS & | | | - |
| | | Certificate | | Conservative | |
| 9 | Or. Vidya | course in | Professor | Dentistry and | 15 |
| S | Saraswathi | Oral | and Head | Endodontics | |
| | | Implantology | | | |
| | | 1 0, | | Conservative | |
| 10 E | Or. Vasudev Ballal | MDS, PhD | Addl. Prof. | Dentistry and | 10 |
| | | | | Endodontics | |
| | | | | Conservative | |
| 11 E | Or. Sandyakini K | MDS | Assoc. Prof. | Dentistry and | 08 |
| | · | | | Endodontics | |
| | | | | Conservative | |
| 12 E | Or. Pradeep | MDS | Assoc. Prof. | Dentistry and | 08 |
| | - | | | Endodontics | |
| | | | | Conservative | |
| 13 E | Or. Tina P.P | MDS | Assoc. Prof. | Dentistry and | 07 |
| | | | | Endodontics | |
| | > 17 ' 1 ' | | | Conservative | |
| 14 | Or. Krishnaraj | MDS | Reader | Dentistry and | 04 |
| 5 | Somayaji S. | | | Endodontics | |
| | | | | Conservative | |
| 15 E | Or. Swathi Pai | MDS | Asst. Prof. | Dentistry and | 01 |
| | | | | Endodontics | |
| 16 E | Or. Abhishek | BDS | Lecturer | - | 01 |
| 17 E | Or. Swathi | BDS | Lecturer | - | 01 |
| 18 Γ | Or. Akrithi | BDS | Lecturer | - | <01 |
| 19 E | Or. Surabhi | BDS | Lecturer | - | 02 |
| | | Department of | f Periodontolo | gy | |
| | Dr. Dotav C | MDS, MBA, | Professor & | | |
| 20 | Or. Betsy S | Cert. Oral | | Periodontology | 22 |
| 1 | Γhomas | Implantology | Head | | |
| | Dr. V. Mahalinga | BSc, MDS, | | | |
| 21 | Or. K Mahalinga | Cert. Oral | Professor | Periodontology | 33 |
| | Bhat | Implantology | | | |
| | | MDS, Cert. | | | |
| 22 E | Or. Pratibha PK | Epidem, | Professor | Periodontology | 17 |
| | | Biostat and | | | |



| | Name | | | | No. of |
|------|--------------------|-----------------|----------------|----------------|---------------------|
| S.No | | Qualification | Designation | Specialization | Years of Experience |
| | | Res Method, | | | |
| | | Cert. | | | |
| | | Aesthetic | | | |
| | | Dent | | | |
| 23 | Dr. Jothi MV | MDS, Cert. | Reader | Periodontology | 09 |
| 23 | DI. John W V | Laser Dent | Reader | 1 chodomology | 07 |
| 24 | Dr. Meena Anand | MDS, Cert. | Reader | Periodontology | 09 |
| 24 | Di. Meena Anand | Laser Dent | Reader | 1 chodomology | 07 |
| 25 | Dr. Rupali | MDS | Reader | Periodontology | 05 |
| 26 | Dr. Santhosh | MDS | Reader | Periodontology | 05 |
| 27 | Dr. Kanishk Gupta | MDS | Asst. Prof. | Periodontology | 03 |
| 28 | Dr. Pradeep Singh | BDS | Lecturer | - | <01 |
| 29 | Dr. Shalini Sharma | BDS | Lecturer | - | <01 |
| | Depar | tment of Oral a | nd Maxillofaci | ial surgery | |
| | Dr. Abhay T. | | Professor | Oral and | |
| 30 | Kamath | MDS | and Head | Maxillofacial | 13 |
| | Txumum | | una meda | surgery | |
| | | | | Oral and | |
| 31 | Dr. K. M. Cariappa | MDS | Professor | Maxillofacial | 31 |
| | | | | surgery | |
| | Dr. Manish | | | Oral and | |
| 32 | Bhagania | MDS | Assoc. Prof. | Maxillofacial | 07 |
| | | | | surgery | |
| | | | | Oral and | |
| 33 | Dr. Srikanth G | MDS | Reader | Maxillofacial | 05 |
| | | | | surgery | |
| | | | | Oral and | |
| 34 | Dr. Chithra A | MDS | Asst. Prof. | Maxillofacial | 03 |
| | | | | surgery | |
| 2.5 | Dr. Anand Deep |) IDC | | Oral and | 0.2 |
| 35 | Shukla | MDS | Asst. Prof. | Maxillofacial | 02 |
| | | | | surgery | |
| 26 | Dr. Adarsh Kudva | MDC | Anne Du C | Oral and | 0.1 |
| 36 | M | MDS | Asst. Prof. | Maxillofacial | 01 |
| | Da Carrona !! | | | surgery | |
| 37 | Dr. Swapnil | BDS | Lecturer | - | <01 |
| | Sharma | | | | |



| | | | | | No. of |
|-------|-------------------|-----------------|----------------|--|------------|
| S.No | Name | Qualification | Designation | Specialization | Years of |
| 21210 | | Q | - vB | ~ P • • • • • • • • • • • • • • • • • • • | Experience |
| | Dr. Meenakshi | | | | |
| 38 | Prasad | BDS | Lecturer | - | <01 |
| | Departme | nt of Prosthodo | ntics and Crov | wn and Bridge | |
| | | | D. C | Prosthodontics | |
| 40 | Dr. Dhanasekar B | MDS | Professor | and Crown and | 12 |
| | | | and Head | Bridge | |
| | | | | Prosthodontics | |
| 41 | Dr. Aparna IN | MDS | Professor | and Crown and | 16 |
| | | | | Bridge | |
| | | | | Prosthodontics | |
| 42 | Dr. Veena Hegde | MDS | Professor | and Crown and | 18 |
| | | | | Bridge | |
| | | | | Prosthodontics | |
| 43 | Dr. Pradeep S | MDS | Addl. Prof. | and Crown and | 11 |
| | | | | Bridge | |
| | | | | Prosthodontics | |
| 44 | Dr. Nayana Prabhu | MDS | Assoc. Prof. | and Crown and | 08 |
| | | | | Bridge | |
| | Dr. Vinu Thomas | | | Prosthodontics | |
| 45 | George | MDS | Assoc. Prof. | and Crown and | 08 |
| | George | | | Bridge | |
| | Dr. Lokendra K | | | Prosthodontics | |
| 46 | Gupta | MDS | Asst. Prof. | and Crown and | 03 |
| | Gupta | | | Bridge | |
| | | | | Prosthodontics | |
| 47 | Dr. Jyoti Hassija | MDS | Asst. Prof. | and Crown and | 03 |
| | | | | Bridge | |
| 48 | Dr. Uday Shankar | BDS | Lecturer | - | 01 |
| 49 | Dr. Apurv Jhawar | BDS | Lecturer | - | 01 |
| 50 | Dr. Eshan Verma | BDS | Lecturer | - | 01 |
| 51 | Dr. Vasudha | BDS | Lecturer | - | <01 |
| 52 | Dr. Vani Verma | BDS | Lecturer | - | 01 |
| | Departme | nt of Pedodonti | cs and Preven | tive Dentistry | |
| | | | Professor | Pedodontics and | |
| 53 | Dr. Rashmi Nayak | MDS | and Head | Preventive | 14 |
| | | | and Houu | Dentistry | |
| 54 | Dr. Sridhar. N | MDS | Assoc. Prof. | Pedodontics and | 07 |



| S.No Name Qualification Designation Specialization Years of Experience | | NT | | | | No. of |
|--|----------|-------------------|-----------------|----------------|------------------|------------|
| Dr. Deepika Pai MDS Assoc. Prof. Preventive Dentistry Pedodontics and Dentistry Pedodontics and Preventive Dentistry Pedodontics and Dentistry Professor & Hondontics and Dentofacial Orthopedics Professor & Hondontics and Dentofacial Orthopedics Professor & Orthodontics and Dentofacial Orthopedics Professor & Public Health Dentistry | S.No | Name | Qualification | Designation | Specialization | Years of |
| Dentistry Pedodontics and Dentistry Pedodontics and Preventive Dentistry | | | | | | Experience |
| Dr. Deepika Pai MDS Assoc. Prof. Pedodontics and Preventive Dentistry Pedodontics and Preventive Dentistry Dentistry Dentistry Dentistry Pedodontics and Preventive Dentistry Dentist | | | | | Preventive | |
| Dr. Deepika Pai MDS Assoc. Prof. Preventive Dentistry | | | | | Dentistry | |
| Dentistry Pedodontics and Preventive Dentistry Dr. Saurabh Kumar MDS Reader Preventive Dentistry Dr. Mirza Aumir Beg MDS Lecturer Pedodontics and Preventive Dentistry Dr. Mariam Sophia BDS Lecturer - 01 Dentistry Department of Orthodontics and Dentofacial Orthopedics Dr. Arun S Urala MDS Reader Orthodontics and Dentofacial Orthopedics Dr. Madhumitha MDS Reader and Dentofacial Orthopedics Dr. Ritesh Singla MDS Asst. Prof. Orthodontics and Dentofacial Orthopedics Dr. Siddharth Mehta MDS Asst. Prof. Orthodontics and Dentofacial Orthopedics Dr. Siddharth Mehta Preventive Dentistry Department of Orthodontics and Dentofacial Orthopedics Dr. Siddharth Mehta MDS Asst. Prof. Orthodontics and Dentofacial Orthopedics Dr. Siddharth Mehta Preventive Dentistry Department of Public Health Dentistry Department of Public Health Dentistry Dentistry Dentistry Pedodontics and Preventive Dentistry Pedodontics and Preventive Dentistry Pedodontics and Preventive Dentistry Professor & Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Professor & Orthodontics and Dentofacial orthopedics Dr. Shashidhar Acharya MDS Asst. Prof. Public Health Dentistry | | | | | Pedodontics and | |
| Dr. Sumit Gaur MDS Assoc. Prof. Pedodontics and Preventive Dentistry | 55 | Dr. Deepika Pai | MDS | Assoc. Prof. | Preventive | 07 |
| Dr. Sumit Gaur MDS Assoc. Prof. Preventive Dentistry | | | | | Dentistry | |
| Dentistry Pedodontics and Preventive Dentistry | | | | | Pedodontics and | |
| Dr. Saurabh Kumar MDS Reader Preventive Dentistry Pedodontics and Preventive Dentistry Pedodontics and Preventive Dentistry Preventive Dentistry Preventive Dentistry Dentistry Dentistry Preventive Dentistry | 56 | Dr. Sumit Gaur | MDS | Assoc. Prof. | Preventive | 05 |
| Dr. Saurabh Kumar MDS Reader Preventive Dentistry | | | | | Dentistry | |
| Dentistry Pedodontics and Preventive | | | | | Pedodontics and | |
| Dr. Mirza Aumir Beg MDS Lecturer Pedodontics and Preventive Dentistry Orthodontics Orthodontics and Dentofacial orthopedics Orthopedics Orthodontics and Dentofacial orthopedics Orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthopedics Orthopedics Orthodontics and Dentofacial orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics and Dentofacial orthopedics Orthopedics Orthopedics Orthopedics | 57 | Dr. Saurabh Kumar | MDS | Reader | Preventive | 04 |
| Dr. Mirza Aumir Beg | | | | | Dentistry | |
| Beg MDS Lecturer Preventive Dentistry <01 Dentistry - 01 Department of Orthodontics and Dentofacial Orthopedics Orthodontics and Dentofacial orthopedics orthopedics Orthodontics and Dentofa | | D M: A : | | | Pedodontics and | |
| Dentistry Dentistry | 58 | | MDS | Lecturer | Preventive | <01 |
| Department of Orthodontics and Dentofacial Orthopedics Orthodontics Orthodontics Orthodontics Orthodontics Orthodontics Orthodontics Orthodontics Orthodontics Orthodontics Ort | | Beg | | | Dentistry | |
| Dr. Arun S Urala MDS Professor & HOD Orthodontics and Dentofacial orthopedics | 59 | Dr. Mariam Sophia | BDS | Lecturer | - | 01 |
| Dr. Arun S Urala MDS Professor & HOD and Dentofacial orthopedics | | Department | of Orthodontic | s and Dentofac | cial Orthopedics | |
| 60 Dr. Arun S Urala MDS HOD and Dentofacial orthopedics 61 Dr. Madhumitha MDS Reader Orthodontics and Dentofacial orthopedics 62 Dr. Ritesh Singla MDS Asst. Prof. Orthodontics and Dentofacial orthopedics 63 Dr. Siddharth Mehta MDS Asst. Prof. Orthodontics and Dentofacial orthopedics 64 Dr. Divya S MDS Asst. Prof. Orthodontics and Dentofacial orthopedics Corthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Professor& Public Health Dentistry 65 Dr. Shashidhar Acharya MDS Assoc. Prof. Public Health Dentistry 66 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry Orthodontics and Dentofacial orthopedics Ortho | | | | D C 0 | Orthodontics | |
| orthopedics Orthodontics and Dentofacial od orthopedics Orthodontics and Dentofacial of Orthopedics Orthopedics Orthodontics and Dentofacial of Orthopedics Orthopedics Orthodontics and Dentofacial of Orthopedics Orthopedics Orthopedics Orthodontics and Dentofacial of Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics and Dentofacial of Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics and Dentofacial of Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics and Dentofacial of Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics Asst. Prof. and Dentofacial of Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics Asst. Prof. and Dentofacial of Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics Asst. Prof. and Dentofacial of Orthopedics Or | 60 | Dr. Arun S Urala | MDS | | and Dentofacial | 08 |
| 61 Dr. Madhumitha MDS Reader and Dentofacial orthopedics 62 Dr. Ritesh Singla MDS Asst. Prof. Orthodontics and Dentofacial orthopedics 63 Dr. Siddharth Mehta MDS Asst. Prof. Orthodontics and Dentofacial orthopedics 64 Dr. Divya S MDS Asst. Prof. Orthodontics and Dentofacial orthopedics Corthopedics Orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthopedics Orthodontics and Dentofacial orthopedics Popartment of Public Health Dentistry 65 Dr. Shashidhar Acharya MDS Professor& Public Health Dentistry 66 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry 67 Dentistry Dentistry OR DENTISTED TO STAND T | | | | нор | orthopedics | |
| 62Dr. Ritesh SinglaMDSAsst. Prof.Orthodontics and Dentofacial orthopedics63Dr. Siddharth MehtaMDSAsst. Prof.Orthodontics and Dentofacial orthopedics64Dr. Divya SMDSAsst. Prof.Orthodontics and Dentofacial orthopedicsDepartment of Public Health Dentistry65Dr. Shashidhar AcharyaMDSProfessor& Public Health DentistryPublic Health Dentistry66Dr. Ram Prasad VPMDSAssoc. Prof.Public Health Dentistry06 | | | | | Orthodontics | |
| 62Dr. Ritesh SinglaMDSAsst. Prof.Orthodontics and Dentofacial orthopedics63Dr. Siddharth MehtaMDSAsst. Prof.Orthodontics and Dentofacial orthopedics64Dr. Divya SMDSAsst. Prof.Orthodontics and Dentofacial orthopedicsDepartment of Public Health Dentistry65Dr. Shashidhar AcharyaMDSProfessor& Health DentistryPublic Health Dentistry66Dr. Ram Prasad VPMDSAssoc. Prof.Public Health Dentistry06 | 61 | Dr. Madhumitha | MDS | Reader | and Dentofacial | 04 |
| 62Dr. Ritesh SinglaMDSAsst. Prof.and Dentofacial orthopedics0363Dr. Siddharth MehtaMDSAsst. Prof.Orthodontics and Dentofacial orthopedics0264Dr. Divya SMDSAsst. Prof.Orthodontics and Dentofacial orthopedics<01 | | | | | orthopedics | |
| Dr. Siddharth Mehta MDS Asst. Prof. Orthodontics and Dentofacial orthopedics Orthopedics Orthodontics and Dentofacial orthopedics Orthopedics Orthopedics Orthopedics Orthopedics Orthodontics and Dentofacial orthopedics Volume and Dentofacial orthopedics Pepartment of Public Health Dentistry The partment of Public Health Head Dentistry Orthodontics Asst. Prof. Orthodontics and Dentofacial orthopedics Volume and Dentofacial orthopedics Volume and Dentofacial orthopedics Orthodontics Asst. Prof. Asst. Prof. Orthodontics And Dentofacial orthopedics Volume and Dentofacial orthopedics Asst. Prof. Orthodontics and Dentofacial orthopedics Volume and Dentofacial orthopedics Asst. Prof. Orthodontics and Dentofacial orthopedics Volume and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Onthopedics Onthodontics and Dentofacial orthopedics Asst. Prof. Onthodontics and Dentofacial orthopedics Onthopedics Onthodontics and Dentofacial orthopedics Onthodontics a | | | | | Orthodontics | |
| Dr. Siddharth Mehta MDS Asst. Prof. Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Volume and Dentofacial orthopedics Pepartment of Public Health Dentistry Dr. Shashidhar Acharya MDS Professor& Head Public Health Dentistry Public Health Dentistry Public Health Dentistry Orthodontics and Dentofacial orthopedics Volume and Dentofacial orthopedics Public Health Dentistry Orthodontics and Dentofacial orthopedics Assoc. Prof. Public Health Dentistry Ogenia and Dentofacial orthopedics Assoc. Prof. Public Health Dentistry Ogenia and Dentofacial orthopedics Assoc. Prof. Ogenia and Dentofacial orthopedics Ogenia and Dentofacial orthopedics Assoc. Prof. Ogenia and Dentofacial orthopedics Ogenia and Dentofacial orthopedics Assoc. Prof. Ogenia and Dentofacial orthopedics Ogenia and | 62 | Dr. Ritesh Singla | MDS | Asst. Prof. | and Dentofacial | 03 |
| Dr. Siddharth MDS Asst. Prof. and Dentofacial orthopedics O2 O7thopedics | | | | | orthopedics | |
| Mehta MDS Asst. Prof. and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Orthodontics and Dentofacial orthopedics Porthopedics Orthodontics and Dentofacial orthopedics Professor& Public Health Dentistry 12 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry Of Dentistry | | Do Ciddhadh | | | Orthodontics | |
| 64 Dr. Divya S MDS Asst. Prof. Orthodontics and Dentofacial orthopedics Department of Public Health Dentistry 65 Dr. Shashidhar Acharya MDS Professor& Public Health Dentistry 66 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry 67 Dr. Shashidhar Head Dentistry 68 Dr. Ram Prasad VP MDS Dentistry 69 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry 60 Dr. Ram Prasad VP MDS Dentistry 60 Dr. Ram Prasad VP MDS Dentistry 60 Dr. Ram Prasad VP MDS Dentistry 61 Dentistry 62 Dr. Ram Prasad VP MDS Dentistry 63 Dr. Ram Prasad VP MDS Dentistry 64 Dr. Ram Prasad VP MDS Dentistry 65 Dr. Ram Prasad VP MDS Dentistry 66 Dr. Ram Prasad VP MDS Dentistry 67 Dentistry 68 Dr. Ram Prasad VP MDS Dentistry 69 Dr. Ram Prasad VP MDS Dentistry 60 Dentistry | 63 | | MDS | Asst. Prof. | and Dentofacial | 02 |
| 64 Dr. Divya S MDS Asst. Prof. and Dentofacial orthopedics Department of Public Health Dentistry | | Menta | | | orthopedics | |
| Department of Public Health Dentistry Dr. Shashidhar Acharya MDS Professor& Public Health Dentistry Head Dentistry 12 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry O6 Dr. Ram Prasad VP | | | | | Orthodontics | |
| Department of Public Health Dentistry Dr. Shashidhar Acharya MDS Professor& Public Health Dentistry Head Dentistry 12 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry O6 Dentistry | 64 | Dr. Divya S | MDS | Asst. Prof. | and Dentofacial | <01 |
| Dr. Shashidhar Acharya MDS Professor& Public Health Head Dentistry 12 Dentistry MDS Assoc. Prof. Public Health Dentistry 06 | | | | | orthopedics | |
| 65 Acharya MDS Head Dentistry 12 66 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry 06 | | De | partment of Pul | blic Health De | ntistry | 1 |
| Acharya Head Dentistry 66 Dr. Ram Prasad VP MDS Assoc. Prof. Public Health Dentistry 06 | <u> </u> | Dr. Shashidhar | MDC | Professor& | Public Health | 10 |
| 66 Dr. Ram Prasad VP MDS Assoc. Prof. Dentistry 06 | 03 | Acharya | MDS | Head | Dentistry | 12 |
| Dentistry | 66 | Du Dom Duo - 1 VD | MDC | Aggs Durf | Public Health | 06 |
| 67 Dr. P Kalyana MDS Reader Public Health 04 | 00 | Dr. Kam Prasad VP | MIDS | ASSOC. Proi. | Dentistry | Ub |
| | 67 | Dr. P Kalyana | MDS | Reader | Public Health | 04 |



| S.No | Name | Qualification | Designation | Specialization | No. of Years of Experience |
|------|---------------------------------|----------------------|--------------------------|---------------------------------------|----------------------------------|
| | Chakravarthy | | | Dentistry | |
| 68 | Dr. Deepak Kumar Singhal | MDS | Asst. Prof. | Public Health Dentistry | 03 |
| 69 | Dr. Nishu Singla | MDS | Asst. Prof. | Public Health Dentistry | 01 |
| 70 | Dr. Bhawani Chandra | BDS | Lecturer | - | 01 |
| 71 | Dr. Kalavathi | BDS | Lecturer | - | 01 |
| 72 | Dr. Sonali C | BDS | Lecturer | - | 01 |
| | Departi | nent of Oral Pa | thology and M | licrobiology | |
| 73 | Dr. Monica Charlotte Solomon | MDS | Professor and Head | Oral Pathology and Microbiology | 18 |
| 74 | Dr. Nirmala N Rao | MDS | Professor | Oral Pathology and Microbiology | 24 |
| 75 | Dr. Raghu A.R | MDS, PhD | Professor | Oral Pathology and Microbiology | 17 |
| 76 | Dr. Sunitha Carnelio | MDS | Addl. Prof. | Oral Pathology and Microbiology | 16 |
| 77 | Dr. Chetana Chandrashekar | MDS | Assoc. Prof. | Oral Pathology and Microbiology | 07 |
| 78 | Dr. Ankur Kaur Shergill | MDS | Asst. Prof. | Oral Pathology and Microbiology | 03 |
| | | Department of | Dental Mater | ials | |
| 79 | Dr. Nagaraja Upadhya P | MSc, PhD | Selection Grade Lecturer | Dental Materials | 23 |
| 80 | Dr. Kishore Ginjupalli | MSc, PhD | Selection Grade Lecturer | Dental Materials | 14 |
| 81 | Dr. Abhishek Bhagat | BDS, MSc | Lecturer | Dental Materials | 03 |



| S.No | Name | Qualification | Designation | Specialization | No. of Years of Experience |
|------|---------------------------------------|---------------|-----------------------------|----------------|----------------------------------|
| | | Medica | l Faculty | • | |
| 82 | Dr. Sneha Guruprasad Kalthur | MS | Assoc. Prof. | Anatomy | 10 |
| 83 | Dr. Vrinda Hari Ankolekar | MD | Asst. Prof. | Anatomy | 03 |
| 84 | Mrs. Vanishri S Nayak | MSc | Senior Grade Lecturer | Anatomy | 08 |
| 85 | Mrs. Suhani Sumalatha M D'Silva | MSc | Senior Grade Lecturer | Anatomy | 08 |
| 86 | Mr. Lydia Quadros | MSc | Lecturer | Anatomy | 06 |
| 87 | Dr. Raghvendra Rao | MD | Professor & Head | Physiology | 16 |
| 88 | Dr. Manjula S D | MSc, PhD | Assoc. Prof. | Physiology | 17 |
| 89 | Dr. Dhiren D Punja | MD | Asst. Prof. | Physiology | 04 |
| 90 | Dr. B Shivananda Baliga | MSc, PhD | Assoc. Prof. | Biochemistry | 23 |
| 91 | Dr. Padmanabha E G Udupa | MSc, PhD | Assoc. Prof. | Biochemistry | 24 |
| 92 | Dr. Ravindra Maradi | MD | Assoc. Prof. | Biochemistry | 10 |
| 93 | Dr. Bharati Chogtu Magazine | MD | Assoc. Prof. | Pharmacology | 11 |
| 94 | Dr. Laxminarayana Bairy | MD, PhD | Professor & Head | Pharmacology | 29 |
| 95 | Dr. Veena Nayak | MD | Assoc. Prof. | Pharmacology | 08 |
| 96 | Dr. Mohan Babu Amberkar | MD | Assoc. Prof. | Pharmacology | 08 |
| 97 | Dr. Meena Kumari | MD | Assoc. Prof. | Pharmacology | 07 |
| 98 | Dr. Manna valiathan | MD | Professor & Head | Pathology | 19 |
| 99 | Dr. Swati Sharma | MD | Assoc. Prof. | Pathology | 08 |
| 100 | Dr. Deepak Nayak M | MD | Asst. Prof. | Pathology | 04 |
| 101 | Dr. Vishnu Prasad S | MSc, PhD | Assoc. Prof. | Microbiology | 18 |



| S.No | Name | Qualification | Designation | Specialization | No. of Years of Experience |
|------|----------------------------|---------------|--------------|-----------------|----------------------------------|
| 102 | Mrs. Seema Shetty | MSc | Lecturer | Microbiology | 05 |
| 103 | Dr. Muralidhar Verma | MD | Assoc. Prof. | Medicine | 12 |
| 104 | Dr. Weena Stanely | MD | Asst. Prof. | Medicine | 05 |
| 105 | Dr. Ananth Shenoy | MD | Asst. Prof. | Medicine | <01 |
| 106 | Dr. Yajnesh Kidiyoor | MD | Asst. Prof. | Medicine | 02 |
| 107 | Dr. Chethan K | MS | Assoc. Prof. | Surgery | 08 |
| 108 | Dr. Anand H | MS | Asst. Prof. | Surgery | 04 |
| 109 | Dr. Badareesh L | MS | Asst. Prof. | Surgery | 03 |
| 110 | Dr. Sharath S Honnani | MS | Asst. Prof. | Surgery | <01 |
| 111 | Dr. U Kailasnath Shenoy | MD, DA | Professor | Anaesthesiology | 28 |
| 112 | Dr. Laxmi Shenoy | MD, DA | Asst. Prof. | Anaesthesiology | 03 |

11. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| S.No | Name | Qualification | Designation | Specialization | No. of Years of Experience |
|------|---------------------|---------------|----------------------------|---------------------------------------|----------------------------------|
| 1 | Dr. Suhas Lele | BDS | Adjunct Visiting Professor | Endodontics | 25 |
| 2 | Dr. S. R. Prabhu | MDS | Visiting professor | Oral Pathology and Microbiology | 44 |

12. Percentage of classes taken by temporary faculty – program-wise information Nil

13. Program-wise Student Teacher Ratio

| Department | Courses | | | | |
|--|---------|-----|---------|-------------|--|
| | BDS | MDS | Diploma | Certificate | |
| Oral Medicine and Radiology | 5:1 | 1:1 | - | - | |
| Conservative Dentistry and Endodontics | 6:1 | 1:1 | 1:2.6 | - | |
| Periodontology | 6:1 | 1:1 | - | - | |



| Oral and Maxillofacial Surgery | 7:1 | 1:1 | - | - |
|--|------|-----|-------|-------|
| Prosthodontics and Crown and Bridge | 6:1 | 1:1 | | - |
| Pedodontics and Preventive Dentistry | 8:1 | 1:1 | - | - |
| Orthodontics and Dentofacial Orthopedics | 5:1 | 1:1 | 1:1.6 | - |
| Public Health Dentistry | 5:1 | 1:1 | - | - |
| Oral Pathology and Microbiology | 8:1 | 1:1 | 1:2 | - |
| Dental Materials | 17:1 | - | 1:1 | 1:1 |
| Advanced Courses | - | - | - | 3.1:1 |

14. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Department | Support Staff | | |
|--------------------------------|---------------|--------|--------|
| | Sanctioned | Filled | Actual |
| Administrative staff | 1 | 1 | 1 |
| Receptionist/Clerk | 14 | 18 | 18 |
| Dental Surgery assistant/nurse | 29 | 42 | 42 |
| Assistant engineer | 01 | 02 | 02 |
| Dental Technician | 10 | 11 | 11 |
| X-ray technician | 03 | 02 | 02 |
| Laboratory technician | 5 | 01 | 01 |
| Laboratory assistant | - | 01 | 01 |
| General duty worker | 25 | 06 | 06 |
| Housekeeping staff | 17 | 33 | 33 |

15. Research thrust areas as recognized by major funding agencies

- Clinical trials and evaluation of dental drugs and materials
- Cytotoxicity of Root canal irrigating solvents
- Studying the physical properties of MTA
- Prognostic markers in Oral Cancer
- To study the clinical efficacy of a desensitizing toothpaste

16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Dr. Vasudel Ballal is conducting a study on "Development and testing of bioactive molecules encapsulated biopolymeric nanoparticles to promote healing of dental pulp" in association with ISTA Dental products, USA [Grant amount \$690].



- Dr. A Hari Shanker is conducting a study on "An immunohistochemical study on assessment of Fascin-1 expression in ameloblastoma" in association with Colgate-Pamolive (India) Ltd. [Grant amount Rs. 10,000/-]
- Dr. Vani Taneja is conducting a study on "Remineralization potential of theobromine on artificial carious lesions-an in vitro study" funded by ICMR, New Delhi [Grant amount Rs. 25,000/-]
- Dr. Jasleen Groover is conducting a study on "To study the expression of fibronectin in severe displasia early invasive carcinoma and oral squamous cell carcinoma-an immunohistochemical appraisal" funded by ICMR, New Delhi [Grant amount Rs 25,000/-]

17. Inter-institutional collaborative projects and associated grants received

a) National collaboration

- Evaluation of the cytotoxicity of precipitates formed during the canal irrigation.(Dr.Vasudev Ballal & Dr. Sudheer Moorkoth, Department of Pharmacology, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal, Karnataka, India)
- Evaluation of the antifungal effect of a novel antiplaque agent on fungi cultured from root canals. (Dr. Vasudev Ballal & Dr. Prakash PY, Department of Microbiology, Kasturba Medical College, Manipal University, Manipal, Karnataka, India).

b) International collaboration

- Effects of different irrigating solutions on the microstructure and physical properties of mineral trioxide aggregate. (Dr. Vasudev Ballal and Dr. Franklin Tay, Georgia Health Sciences University, Augusta, GA, USA & Dentsply, Tulsa, OK. USA)- Grant INR 1, 10,000/-
- Evaluation of the antimicrobial property of a novel antiplaque agent on Enterococcus faecalis. (Dr. Vasudev Ballal and Dr. Anil Kihsen, University of Toronto, Faculty of Dentistry & Epien Medical Inc., Minneapolis, MN, USA)-Grant INR 90,000/-
- Evaluation of physical properties of newer version of mineral trioxide aggregate.(Dr. Vasudev Ballal & Dr. James F Walcott, Diplomate, American Board of Endodontics, University of Colorado School of Dentistry, New Mexico, USA)-Grant INR 1, 15,000/-
- 18. Institutional projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.



| S.No | Title | Investigator | Departmen | Year | Fund | Financia |
|------|--------------------------------|--------------|-------------|------|-----------|-----------|
| | | | t | | sanctione | l support |
| | | | | | d | External |
| 1 | | | D. | 2012 | TIGD 4730 | Agency |
| 1 | Evaluation of | Dr. Vasudev | Department | 2013 | USD\$738 | BioMTA |
| | Physical and | Ballal | of | | | |
| | chemical | Addl. | Conservativ | | | |
| | properties of | Professor | e Dentistry | | | |
| | Bio MTA | | & | | | |
| | when treated | | Endodontics | | | |
| | with different | | | | | |
| | irrigating | | | | | |
| 2 | agents | D W | D | 2014 | 11005.67 | D: 14Th |
| 2 | Evaluation of | Dr. Vasudev | Department | 2014 | US\$567 | BioMTA |
| | Physical and | Ballal | of | | | |
| | chemical | Addl. | Conservativ | | | |
| | properties of | Professor | e Dentistry | | | |
| | Bio MTA | | & | | | |
| | when treated | | Endodontics | | | |
| | with different | | | | | |
| | irrigating | | | | | |
| 2 | agents | D 4 11 1 | D | 2014 | D | G 1 |
| 3 | An Immunohi | Dr. A Hari | Department | 2014 | Rs. | Colgate – |
| | -stochemical | Shanker | of Oral | | 10,000 | Palmoliv |
| | study on assess | | Pathology & | | | e(India) |
| | -ment of | | Microbiolog | | | Limited |
| | Fascin- 1 | | У | | | |
| | expression in | | | | | |
| 4 | ameloblastoma | D., I. 1 | Daniel | 2014 | D. | ICME |
| 4 | To Study the | Dr. Jasleen | Department | 2014 | Rs. | ICMR |
| | Expression of | Grover | of Oral | | 25,000 | |
| | Fibronectin In | | Pathology | | | |
| | Severe | | | | | |
| | Dysplasia, | | | | | |
| | Early Invasive | | | | | |
| | Carcinoma and Oral | | | | | |
| | | | | | | |
| | Squamous Cell Carcinoma: An | | | | | |
| | | | | | | |
| | Immuno- | | | | | |
| | Histochemical | | | | | |



| S.No | Title | Investigator | Departmen t | Year | Fund sanctione d | Financia l support External Agency |
|------|---|--|---------------------------|------|------------------------|---|
| | Appraisal | | | | | |
| 5 | A single-center and monadicdesign study conducted in Manipal to evaluate the clinical efficacy of a desensitizing toothpaste: A dentinal hypersensitivity study conducted in MCODS, | Dr. Nirmala N Rao Dr. Betsy Thomas Dr. Shashidhar Acharya Dr. Rashmi Nayak | MCODS | 2014 | Rs. 5,00,000 | Colgate – Palmoliv e(India) Limited |
| 6 | Manipal Remineralising effect of Theo bromine on artificial carious lesions | Dr. Vani Taneja | PG student Pedodontics | 2014 | Rs. 25,000 | ICMR |
| 7 | FHNO Travel Fellowship- 2014-15 | Dr. Adarsh Kudva | Oral Surgery | 2014 | Rs. 20,000 | Foundati on for Head & Neck Oncolog y All Indian Institute of Medical Sciences, Ansari Nagar, New |

| REMITTED BY | |
|-------------|---|
| | 1 |
| TIT | 1 |
| Manipa | d |
| | |

| S.No | Title | Investigator | Departmen | Year | Fund | Financia |
|------|-------|--------------|-----------|------|-----------|-----------|
| | | | t | | sanctione | l support |
| | | | | | d | External |
| | | | | | | Agency |
| | | | | | | Delhi |

19. Research facility / centre with

- state recognition
- national recognition
- international recognition

Nil

20. Special research laboratories sponsored by / created by industry or corporate **bodies**

Nil

21. Publications last three years

| S.No | Description | 2012 | 2013 | 2014 |
|------|--|------------|----------|--------|
| 1 | Number of papers published in peer | 126 | 105 | 136 |
| | reviewed journals (national / international) | | | |
| 2 | Monographs | - | - | - |
| 3 | Chapters in Books | 2 | 5 | 6 |
| 4 | Books edited | - | - | - |
| 5 | Books with ISBN with details of | | | |
| | publishers | | | |
| 6 | Number listed in International Database | 47 | 42 | 47 |
| | (For e.g. Web of Science, Scopus, | | | |
| | Humanities International Complete, Dare | | | |
| | Database - International Social Sciences | | | |
| | Directory, EBSCO host, Medline, etc.) | | | |
| 7 | Citation Index – range / average | 12-0 | 3-0 | 3-0 |
| | | (1.87) | (0.42) | (0.29) |
| 8 | SNIP | 0.74 | 0.79 | NA |
| 9 | SJR | 0.39 | 0.45 | NA |
| 10 | Impact Factor – range / average | 3.58 - 0.0 | 2.84-0.0 | 2.18- |
| | | 0.18 | 0.21 | 0.0 |
| | | | | 0.14 |
| 11 | h-index | 5 | 3 | 2 |

22. Details of patents and income generated

| S. No Title | Reference No | Filing date | Income |
|-------------|--------------|-------------|--------|
|-------------|--------------|-------------|--------|



| | | | | generat ed |
|---|---|---------------|------------|---------------|
| 1 | Method, system and apparatus for curing light activated resin materials | 5416/CHE/2013 | 25/11/2013 | - |
| 2 | Method, system and apparatus for dispensation of the cryogen | 349/CHE/2014 | 28/01/2014 | - |
| 3 | Portable device for dental therapy | 3555/CHE/2014 | 19/07/2014 | - |
| 4 | Mobile dental unit | 3554/CHE/2014 | 19/07/2014 | - |
| 5 | Surgical glove for educating patients with special needs | 3468/CHE/2014 | 19/08/2014 | - |

23. Areas of consultancy and income generated

| S.No | Areas of consultancy | | Areas of consultancy | | Inco | ome generated | |
|------|----------------------|---------|----------------------|------------|---------------|---------------|--|
| | | | | 2012 | 2013 | 2014 | |
| 1 | Mechanical materials | testing | of | 61, 894.00 | 1, 06, 656.00 | 1,75,362.00 | |

24. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

| S.No | Name of the | Selected by | Year | Visiting Place | Duration |
|------|---------------|-------------|---------|----------------|----------|
| | faculty | | | | of the |
| | | | | | visit |
| 1 | Dr. A R Raghu | EU funded | 2013-15 | University of | 2 Years |
| | | Marie curie | | Sheffield, UK | |
| | | fellowship | | | |

25. Faculty serving in

- National committees
- International committees
- Editorial Boards
- any other (specify)

| S. No | Name of the | Designation | Department | Editorial advisory |
|-------|--------------------|-------------|--------------|---------------------|
| | Faculty | | | body member |
| 1 | Dr. Vasudev Ballal | Additional | Conservative | Scientific Advisory |



| | | Professor | Dentistry& | Board member of |
|---|----------------|-------------|----------------|-------------------------|
| | | 11010001 | Endodontics | Journal of |
| | | | Lindodolities | Endodontics |
| | | | | Section |
| | | | | Editor(Endodontics – |
| | | | | Journal of |
| | | | | |
| | | | | Interdisciplinary |
| | | | | Dentistry |
| | | | | Scientific Advisory |
| | | | | Board member of |
| | | | | Saudi Endodontic |
| | | | | Journal- Saudi |
| | | | | Endodontic Society. |
| | | | | Scientific Advisory |
| | | | | Board member of |
| | | | | World Journal of |
| | | | | Stomatology |
| | | | | Editorial Board |
| | | | | member of "European |
| | | | | Journal of General |
| | | | | Dentistry" |
| | | | | Editorial Board |
| | | | | member of "The |
| | | | | Journal of Dentistry" |
| 2 | Dr. Manish | Associate | Oral& | Associate Editor in |
| | Bhagania | Professor | Maxillofacial | Manipal Odontoscope, |
| | | | Surgery | The official journal of |
| | | | | IDA Manipal |
| 3 | Dr. Pradeep S | Additional | Prosthodontics | Editorial board |
| | | Professor | & Crown and | member for the |
| | | | Bridge | Journal of Orofacial |
| | | | | Research |
| 4 | Dr. Shashidhar | Professor & | Public Health | Editorial board |
| | Acharya | Head | Dentistry | member of Journal of |
| | | | | Indian Association of |
| | | | | Public Health |
| | | | | Dentistry |
| | l . | l . | l . | |



| 5 | Dr. Ramprasad | Associate | Public Health | Editor- |
|---|---------------|-----------|----------------|---------------------|
| | Vasthare | Professor | Dentistry | ManipalOdontoscope, |
| | | | | Journal of Indian |
| | | | | Dental Association, |
| | | | | Manipal branch |
| 6 | Dr. Raghu A.R | Professor | Oral Pathology | 1. International |
| | | | & | Journal |
| | | | Microbiology | of Oral and |
| | | | | Maxillofacial |
| | | | | Pathology |
| | | | | 2. Signpost Open |
| | | | | Access Journal of |
| | | | | Pathobiology and |
| | | | | Toxicology |
| | | | | 3. Journal of |
| | | | | Orofacial |
| | | | | and Health |
| | | | | Sciences |
| | | | | 4. World Journal of |
| | | | | Dentistry |
| | | | | 5. International |
| | | | | Journal of |
| | | | | General |
| | | | | Dentists |

26. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

All the newly joined faculty are oriented initially by the Centre for Professional and Personal Development through teaching-learning workshop. Subsequently, all the faculty are encouraged to participate in regular training programs conducted by this centre. All the faculty are encouraged to attend national and International Conferences, seminars/CPDs/CDEs/ Workshops/ Hands on training, etc. every year in their specialty. The university provides a financial assistance of Rs 50,000 per year to each faculty. Research Incentives are also given for the articles published in journals, for innovative ideas and patents. In addition, the University provides grants for research to faculty and students. College also encourages the departments to conduct CDE / CPD/ Workshops /



Conferences, wherein subject expertise are invited to share their knowledge and skills with the students and faculty.

Number of faculty participated/Attended in the academic activities:

| S. No | Description | 2012 | 2013 | 2014 |
|-------|---------------------------|------|------|------|
| 1 | Conferences/Workshops/CDE | 78 | 88 | 94 |

27. Student projects

• percentage of students who have taken up in-house projects including interdepartmental projects [Number of UG students involved in research projects at the college]

2012 - 02

2013 - 12

2014 - 05

• percentage of students doing projects in collaboration with other universities / industry / institute

28. Awards / recognitions received at the national and international level by

Faculty

| S. No | Description | 2012 | 2013 | 2014 |
|-------|-------------------------------|------|------|------|
| 1 | Best oral/Poster presentation | - | 01 | 04 |

Doctoral / post-doctoral fellows

| S. No | Description | 2012 | 2013 | 2014 |
|-------|-------------------------------|------|------|------|
| 1 | Best oral/poster presentation | - | - | - |

Students

| S. No | Description | 2012 | 2013 | 2014 |
|-------|--|------|------|------|
| 1 | Best oral/poster presentation | 05 | 07 | 25 |
| 2 | Best Innovation | 01 | 02 | 03 |
| 3 | Pierre Fauchard Academy UG student award | - | 01 | 01 |
| 4 | Student Plaque award by International college of dentists | - | 01 | 01 |
| 5 | International Pierre Fauchard Academy UG student Scholarship award | - | - | 01 |



Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| S. No | Description | 2012 | 2013 | 2014 |
|-------|------------------------------|------|------|------|
| 1 | No. of Conference/ workshop/ | 22 | 27 | 24 |
| | CDE organised | | | |
| 2 | Total number of participants | 325 | 415 | 469 |
| 3 | Source of funding | - | - | - |

30. Code of ethics for research followed by the departments

The code of ethics for research as put forward by the Manipal University, Manipal is followed. MU has an ethical Committee each dept. has to submit the research protocol to the ethical committee following the approval, the research project is undertaken in the respective departments. This committee comply with the standards laid down by ICMR and ICH-GCP Guidelines.

31. Student profile program-wise:

| Name of the | Applications | Selected | Selected Pass per | | centage |
|-----------------|--------------|----------|-------------------|------|---------|
| Program | received | Male | Female | Male | Female |
| (refer to | | | | | |
| question no. 4) | | | | | |
| BDS | 2012-13170 | 23 | 76 | 76 | 97 |
| | 2013-16232 | 24 | 76 | 84 | 96 |
| | 2014-18449 | 25 | 75 | 79 | 94 |
| MDS | 2012-3086 | 10 | 21 | 100 | 100 |
| | 2013-2059 | 14 | 21 | 100 | 100 |
| | 2014-1607 | 11 | 23 | 100 | 100 |

32. Diversity of students [for the year 2014-15]

| Name of the Program (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| BDS | - | 4 | 86 | 10 |
| MDS | 9 | 9 | 16 | - |
| Certificate courses | 14 | 8 | 26 | - |
| PGD DM | - | - | 1 | - |
| Dip. Dental Mechanics | - | 1 | 2 | - |



33. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

The graduate students generally opt for private practice or higher studies. Following table indicates the percentage of students who have secured post graduate admission after passing out from this college

| S. No | Description | 2012 | 2013 | 2014 |
|-------|---------------------------------|-------|-------|-------|
| 1 | Total Number of students passed | 90 | 101 | 83 |
| 2 | Students who secured PG seat | 45 | 37 | 31 |
| 3 | Students with private practice | 21 | 21 | 02 |
| 4 | Students working at hospitals | - | 07 | 05 |
| 5 | Percentage of students placed | 73.33 | 64.35 | 45.78 |

34. Student progression

| Student progression I | | Percentage against enrolled | | |
|-------------------------------|------|-----------------------------|------|--|
| | 2012 | 2013 | 2014 | |
| UG to PG | 45 | 37 | 31 | |
| PG to M.Phil, DM / M Ch / DNB | NA | NA | NA | |
| PG to Ph.D. | NA | NA | NA | |
| Ph.D. to Post-Doctoral | NA | 01 | NA | |
| Employed | | | | |
| Campus selection | | | | |
| Other than campus recruitment | 21 | 28 | 07 | |
| Entrepreneurs | NA | 03 | 03 | |

35. Diversity of staff

| Percentage of faculty who are graduates | |
|--|-------|
| of the same university | 65.75 |
| from other universities within the State | 21.91 |
| from universities from other States | 12.32 |
| from universities outside the country | Nil |

36. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period

| S. | No | Year | No. of Ph.D. awarded |
|----|----|------|----------------------|
| - | 1 | 2012 | Nil |



| 2 | 2013 | Nil |
|---|------|-----|
| 3 | 2014 | Nil |

37. Present details of institutional infrastructural facilities with regard to a) Library

| S. No | Description | 2012 | 2013 | 2014 |
|-------|--------------------------|-------|-------|-------|
| 1 | Books | 57291 | 61853 | 64994 |
| 2 | Journals subscribed | 571 | 574 | 526 |
| 3 | Online journals | 3240 | 3263 | 4553 |
| 4 | Back volumes of journals | 34628 | 34629 | 35037 |
| 5 | Online databases | 09 | 09 | 12 |
| 6 | CDs | 674 | 692 | 769 |
| 7 | WHO publications | 1995 | 2013 | 2050 |
| 8 | Dissertations | 5095 | 6000 | 6034 |
| 9 | Video cassettes | 375 | 375 | 375 |
| 10 | Computers | 129 | 140 | 103 |
| 11 | Scanners | 06 | 06 | 16 |
| 12 | Printers | 15 | 15 | 16 |
| 13 | Color laser printer | 01 | 01 | 01 |

The library is also equipped with facilities such as e-learning, access to internet and web resources including online journals and e-books. It also has audio-visual room, computer lab, group study area, private study area and photocopying facilities. Resources such as the Proquest Medical Library, MD Consult Science Direct, CINAHL Plus, IDIS/Web, Net Anatomy Educational Website, SciFinder Scholar, Cochrane Library Online and Lowa Drug Information Services are available. The library is also a member of DELNET Online, British Council and the American Information Resource Centre.

b) Internet facilities for staff and students

All the students and faculty are provided with laptops. There is access to intranet and internet through Wi-Fi or broad band connection. Students are encouraged to present their seminars, case presentations and journal clubs through power point presentations. Each student is given an e mail id and password which enables them to access the various feedback forms.

The college encourages the faculty to be familiar with the use of computers, internet, audio-visual aids and computer aided packages. The faculty members of the institution are provided with personal laptop and internet connection following their recruitment. Faculty is encouraged to use these facilities for the academic and research purposes. Faculty is oriented about the new applications or software's by the information systems department of Manipal University as and when required.



c) Total number of class rooms

The college has a total of 5 air conditioned state of the art lecture halls with LCD projectors. In addition, the college also has 12 seminar halls, also equipped with LCD Projectors, Slide projectors, black board. In addition, departments have teaching and learning models for student education.

d) Class rooms with ICT facility and 'smart' class rooms

Students are allotted topics for seminar/ research in recent advances in the respective specialties which necessitates the use of ICT. To facilitate the same, students are provided with laptops and have an access to internet. Knowledge is communicated to students using didactic lectures, small group discussions, demonstration, chair-side discussion, spotters, working on models and live demo on patients. Some of the clinical and nonclinical procedures are taught using recorded videos by the faculty. In addition to these, students are also given small seminar topics to discuss in the classroom which are either problem or project based.

e) Students' laboratories

The institution is equipped with a state of the art laboratories for student learning. The labs are also provided with basic and advanced amenities. Following is the list of laboratories at the college with the facilities available and the number of student strength that can be accommodated in each lab.

| S.No | Laboratory | Facilities Available | No. of students accommodated | Area |
|------|--------------|-----------------------------|------------------------------|------------|
| 1 | Preclinical | Phantom head units, Micro | 50 | 1248 Sq Ft |
| | Conservative | motor, Three way syringes, | | |
| | Dentistry | Operating stools, | | |
| | Laboratory | Amalgamator. | | |
| 2 | New Phantom | Phantom heads, | 27 | 1098 Sq Ft |
| | Head | Micromotors, Three way | | |
| | laboratory | syringes, Airotor, Suction, | | |
| | | Computer screens in each | | |
| | | working station, Operating | | |
| | | stools, Amalgamator | | |
| 3 | Central | Casting machines, Ceramic | 10 | 1186 Sq Ft |
| | Laboratory | firing machine, Duplicating | | |
| | | machine, Processing | | |
| | | machines for RPD and CD, | | |
| | | Die fabricating system | | |
| | | (Pindex), Die cutting | | |



| S.No | Laboratory | Facilities Available | No. of students accommodated | Area |
|------|----------------|--|------------------------------|------------|
| | | machine, Sand blaster, Trimming and polishing | | |
| | | Lathes, Sprue cutting | | |
| | | machine, Burnout furnace, | | |
| | | Vibrators, Stone and plaster | | |
| | | dispensers, Cast Drier and | | |
| | | hardener, Ultrasonic cleaning | | |
| | | machine, Electrolyte | | |
| | | polishing Unit, Soldering | | |
| | | Unit, Surveyor | | |
| | | Vacuum mix unit, Hydraulic | | |
| | | bench press, Flexible | | |
| | | Denture Unit | | |
| 4 | Postgraduate | Dental stone dispenser, | 20 | 545 Sq Ft |
| | Laboratory in | Plaster dispenser, Model | | |
| | Clinical | trimmer, Vibrator, Dental | | |
| | Section of | lathe for acrylic, Dental lathe | | |
| | Conservative | for Metal, Casting machine, | | |
| | Dentistry | Vacuum Mixer, Heavy duty | | |
| | | micro motors, Sand blasting | | |
| | | unit, Ceramic | | |
| | | furnace(Combo for both | | |
| | | PFM and All ceramic | | |
| | | restorations), Pneumatic | | |
| | | Chisel, Ultra sonic cleaner, | | |
| | | Alloy grinder | | |
| | | Pindex Machine, Die Cutting machine, Burn out furnace, | | |
| | | Pickling units. | | |
| 5 | Prosthodontic | Casting machines, Ceramic | 15 | 862 Sq Ft |
| | s Postgraduate | firing machine, Processing | 13 | 502 5q I t |
| | students' | machines for RPD and CD, | | |
| | laboratory | Die fabricating system(| | |
| | | Pindex), Die cutting | | |
| | | machine, Sand blaster, | | |
| | | Trimming Lathes, Sprue | | |
| | | cutting machine, Arc welder, | | |
| | | Autoclave unit, Hot air oven, | | |



| S.No | Laboratory | Facilities Available | No. of students accommodated | Area |
|------|---------------|---|------------------------------|------------|
| | | Articulators, Hydraulic bench press, Deflasking units, Deinvesting units, | | |
| | | Ultrasonic cleaning machine, | | |
| | | Ultrasonic crown removers, | | |
| | | Simulators, Burnout furnace, | | |
| | | Polishing lathe | | |
| | | Surveyors, Trimming hand | | |
| | | pieces, Light Curing units for | | |
| | | complete dentures and | | |
| | | composite, Vibrators, | | |
| | | Airotor, Micro motors, Biostar vacuum formed | | |
| | | Biostar vacuum formed splint Machine, Stone and | | |
| | | plaster dispensers, Vacuum | | |
| | | mix unit, Dental flasks and | | |
| | | clamps | | |
| 6 | Prosthodontic | Vibrators, Hydraulic bench | 25 | 1031 Sq Ft |
| | s | press, | | |
| | Undergraduat | Dental flasks and clamps, | | |
| | e students' | Burners | | |
| | Laboratory | Acrylizer, Polishing lathe, | | |
| | | Trimming lathe, Plaster | | |
| | | dispenser, Heavy duty | | |
| | | Micromotors | | |
| 7 | Casting | Centrifugal Casting | | 675 Sq Ft |
| | Room/Plaster | Machines, Flexible Denture | | |
| | Room | Units, Plaster dispensers, | | |
| 8 | Preclinical | Polishing Units Burners, Tables and chairs, | 100 | 2357 Sq Ft |
| 8 | Prosthodontic | Heavy duty Micromotors, | 100 | 2337 Sq 14 |
| | s laboratory | Plaster dispenser, Acrylizer, | | |
| | s laboratory | Polishing lathe, Trimming | | |
| | | lathe, Vibrator, Hydro solder | | |
| 9 | Orthodontics | Plaster dispensers, Model | 10 | 234 Sq Ft |
| | Laboratory | trimmers, Polishing lathe, | | _ |
| | - | Acrylizer, Vibrator, Heavy | | |
| | | duty foot control, Biostar, | | |



| S.No | Laboratory | Facilities Available | No. of students accommodated | Area |
|------|---------------|-------------------------------|------------------------------|------------|
| | | Wall mounted hand engines | | |
| | | for acrylic trimming, Curing | | |
| | | Pressure Pot, | | |
| 10 | Pedodontics | Plaster and stone dispensing | 09 | 217 Sq Ft |
| | laboratory | machines, Cast trimming | | |
| | | machines, Acrylic trimmers, | | |
| | | Hydro solder unit, Acrylizer, | | |
| | | Vibrator, Dental Lathe | | |
| 11 | Dental | Granite top demonstration | 100 | 2352 Sq Ft |
| | Materials | table | | |
| | Undergraduat | Bunsen Burners, Materials | | |
| | e students' | for conducting experiments | | |
| | laboratory | | | |
| 12 | Chemical | Equipment and accessories | 10 | 530 sq Ft |
| | analysis | for gravimetric and | | |
| | laboratory | volumetric analysis, Boiler | | |
| | | and Drier, pH Meter | | |
| 13 | Undergraduat | Granite top demonstration | 50 | 1467 Sq Ft |
| | e Students' | table | | |
| | Laboratory in | Microscopes, Glass door | | |
| | Oral | cupboard for storage | | |
| | Pathology | | | |
| 14 | Histopatholog | Chemicals and reagents, | 10 | 326 Sq Ft |
| | y Laboratory | Automatic processor, Knife | | |
| | | sharpener, Water bath, | | |
| | | Microtome 2000, Slide | | |
| | | warmer, Digital camera | | |

f) Research laboratories

| S.No | Laboratory | Facilities Available | No. of students accommodated | Area |
|------|------------|----------------------------|------------------------------|-----------|
| 1 | Dental | INSTRON- Universal testing | 05 | 216 Sq Ft |
| | Materials | machine, Material weighing | | |
| | testing | machine, Microscope | | |
| | Laboratory | | | |
| 2 | Research | Cryostat, Deep freezer, | 05 | 250 Sq Ft |
| | Laboratory | incubator | | |



| S.No | Laboratory | Facilities Available | No. of students accommodated | Area |
|------|------------|------------------------------|------------------------------|------|
| | (Oral | Micropipettes, Three headed | | |
| | Pathology) | Microscope, Micro | | |
| | | centrifuge, Vortex, | | |
| | | Laboratory ware, Television, | | |
| | | pH meter, Magnetic stirrer | | |

38. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university
- b) from other institutions/universities

At present, two faculty members are pursuing their doctoral program from the host institute. In addition, a total of four faculty members from the host institute have pursued their doctoral program and successfully completed during 2010-2011.

| S.No | Name | Department | Year of | From | | |
|------|------------|------------------------|---------------|-------------|--|--|
| | | | Completion of | | | |
| | | | PhD | | | |
| | Ongoing | | | | | |
| 1 | Dr. Monica | Oral Pathology and | Pursuing | Host | | |
| | Solomon | Microbiology | | institution | | |
| 2 | Dr. Aparna | Prosthodontics and | Pursuing | Host | | |
| | IN | Crown and Bridge | | institution | | |
| | Completed | | | | | |
| 1 | Dr. Raghu | Oral Pathology and | 2010 | Host | | |
| | A R | Microbiology | | institution | | |
| 2 | Dr. | Conservative Dentistry | 2011 | Host | | |
| | Vasudev | and Endodontics | | university | | |
| | Ballal | | | | | |
| 3 | Dr. | Dental Materials | 2011 | Other | | |
| | Nagaraja | | | university | | |
| | Upadhya P | | | | | |
| 4 | Dr. | Dental Materials | 2011 | Host | | |
| | Kishore | | | institution | | |



| (| Ginjupalli | | |
|---|------------|--|--|
| | | | |

39. Number of post graduate students getting financial assistance from the university.

The college provides financial assistance to the prost graduates students for their research project based on the quality of the project. A selection committee comprising of senior faculty members of the institute scrutinizes and selects the projects for financial assistance. Selected projects are awarded with a financial assistance of Rs. 10,000 each, and this is disbursed to best 10 research projects in an academic year.

40. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.

Yes. The assessment exercise is conducted as per the Manipal University Norms.

41. Does the institution obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the institution utilize the feedback?
- b. students on staff, curriculum and teaching-learning-evaluation and how does the institution utilize the feedback?
- c. alumni and employers on the programs offered and how does the institution utilize the feedback?

The college has an established practice of obtaining feedback from all the stake holders. The feedback is collected regularly from students, patients, teaching and nonteaching staff which will be suitably analysed and appropriate preventive and corrective actions are taken up which helps in improving the quality of the services offered.

The curriculum design is based on the DCI norms. Revisions, if any, are made after discussion in the Board of Studies meeting. The implementation is ensured through the academic calendar and time table. Periodic monitoring of the progress is done during departmental audits and meetings.

Students : Yearly basis with feedback questionnaires

Alumni : Informally during visit of alumni Parents : Informally during their visits

Patients : Yes

 Academic peers : During BOS meetings

Employers / industries : No Community : No

The feedback is analysed by sending the data collected to the Statistical bureau of the University. The scores and remarks are discussed in the core committee/HOD meetings and suitable corrective and preventive actions are taken. The report of the



same is sent to the University.

42. List the distinguished alumni of the institution (maximum 10)

Alumni of MCODS have made a mark in different fields both nationally and internationally. Alumni meets are organized every year in the month of December when the alumni visit their alma mater, share their experiences with faculty and students.

| S.No | Name and details | Batch | Position | |
|------|----------------------------------|------------------------|--|--|
| 1 | Dr. Muniratnam Naidu E. | MDS :1974 | Former Vice chancellor, Meenakshi Ammal Deemed University, Maduravoyal, Chennai 602102. | |
| 2 | Dr. Jacob T. Kaimenyi | MDS :1980 | Deputy Vice Chancellor (Academic affairs) University of Nairobi, P.O. Box 555, 00515, Nairobi | |
| 3 | Dr. Surendra Shetty V | BDS :1965 MDS :1972 | Pro Vice Chancellor, Manipal University | |
| 4 | Dr. S Ramanand Shetty | MDS :1982 | Vice Chancellor, Nitte University, Mangalore | |
| 5 | Dr. Nirmala N Rao | BDS :1972 | Dean, Manipal College of Dental Sciences, Manipal | |
| 6 | Dr. Sripathi Rao B.H | BDS :1972 MDS :1978 | Dean, Yenepoya Dental College, Mangalore | |
| 7 | Dr. U.S. Krishna Nayak | BDS :1978 MDS :1983 | , and the second | |
| 8 | Dr. Dilip G Naik | MDS :1985 | Dean, Manipal College of Dental Sciences, Mangalore | |
| 9 | Dr. Paul C.Salins | BDS :1975 MDS :1981 | Former Senior Consultant, Maxillofacial and Skull Base Surgery, Hamad Medical Corporation (M.o.H.), P.O. Box 3050, Doha, Qatar. Presently: Director of Cranio-Facial Services, Mazumdar-Shaw Cancer Center, Bangalore | |
| 10 | Dr. Moni Abraham Kuriakose | BDS :1983 | Senior Consultant Head and Neck Surgery, Chief of Head and Neck Oncology Service Director, Department of Surgical Oncology, Mazumdar-Shaw Cancer Center, Bangalore | |



43. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

The college regularly conducts Continuing dental education program or workshops. Experts from different arenas in dentistry will be invited to deliver lectures and hands on training. The following table indicates the number of enrichment programs conducted at the college for our students and faculty.

| Description | 2012 | 2013 | 2014 |
|----------------------------------|------|------|------|
| Seminars/Workshop/Training/Guest | 22 | 27 | 24 |
| Lectures/CDE programs held | 22 | 21 | 24 |

44. List the teaching methods adopted by the faculty for different programs including clinical teaching.

Theory:

The teaching learning methods used are didactic lectures, tutorials, seminars, small group discussions; problem based learning, clinical case discussion, hands on working on mannequins in a simulated clinical setup, field visits, practical demonstrations and clinical case demonstrations.

Practical training:

Practical classes train the students to treat patients when they are posted in clinical set up. First and second BDS students are exposed to preclinical teaching on the phantom head lab, clinical situations are simulated in pre-clinical practical classes. Here the students gain proficiency in cavity preparation on typodont teeth, handling of instruments, familiarized to work in a simulated oral environment. This allows the student to get a feel of working on patients. There are nearly 77 workstations for the undergraduates in the pre-clinical operative dentistry laboratory and 100 work stations in Pre-clinical prosthodontics laboratory to ensure that student acquires knowledge in handling patients during their clinical postings in third year.

Clinical training:

In third year of BDS course, students are exposed to patients with medical problems in the hospital wards during clinical sessions. This enable them to gain knowledge about the systematic examination of patients, oral manifestations of various diseases requiring surgical expertise and to manage medical emergencies in dental Practice. Students in third and fourth year of the course have hands on learning experience by treating patients with different kinds of dental and oral problems in both college set up and rural settings at dental camps. During internship students gain knowledge in comprehensive dental management.

45. How does the institution ensure that program objectives are constantly met and



learning outcomes are monitored?

At beginning of each academic year, a detail plan of action to achieve each program objectives are planned. The academic calendar containing the details and time frame for all the academic activities will be issued to the departments along with time table. At the department level, monthly/weekly plan will be prepared as per the time table. The extent of course content, coverage and student performance will be discussed on monthly basis during departmental meetings.

Annually, three internal assessment examinations will be held and at the end of each assessment examination, the performance of the students will be analyzed. The internal assessment includes both formative and summative assessment which ensures that the objectives of the learning process are assessed during the evaluation process. Students are well informed about the means and methods of evaluation ensuring that the process of evaluation is objective. Periodic assessment of the student's outcome after each internal assessment ensures that students are aware of the examination process. Students are continuously assessed based on the seminars, class room discussions with feedback on their performance. The poor performers will be counselled and suitable supportive help will be rendered as and when needed. A feedback on the syllabus content coverage will be obtained from the students annually. The inputs from the feedback will be assessed and necessary corrective or preventive action will be put forward to the Board of Studies for discussion and approval. In addition, the Board of studies meets twice in a year to discuss the curriculum and changes, if any, process of evaluation and outcome of the examinations. BOS meetings also discuss the availability of question banks and panel of examiners for smooth conduct of university examinations. Besides, two internal audits will be conducted during which audit of the academic processes will be assessed in all the departments.

46. Highlight the participation of students and faculty in extension activities.

The students and faculty are involved in various outreach programs and social activities to promote a strong institution-local neighborhood network, which not only helps students to acquire attitude for service training but also indirectly benefits the local community and contributes towards overall community development. For this purpose, the institution conducts dental health camps in the local and the adjoining regional areas throughout the year wherein the main focus is on screening, diagnosis and providing the primary preventive care. These help in creating awareness about oral health and have helped the local community to have better oral health.

The students' council of the institution conducts various co-curricular activities with the help of its benevolent body named voluntary service organization, to extend a helping hand in the direction of the oppressed and lesser privileged of our society through various events like free dental check-up camps, awareness programs, drug collection and re-distribution campaigns, clothes collection drive and lots more. The organization's main motive is to provide the general public an insight into the field of



dental health and social vigilance.

47. Give details of "beyond syllabus scholarly activities" of the institution.

The students are involved in various scholarly activities organized by the college and are also encouraged to participate in such events organized elsewhere. The students are encouraged to participate in conferences, workshops and continuing dental education programs. The college provides a financial assistance of Rs 5000 for undergraduates and Rs 10,000 for post-graduate students to attend and present their research at national and international forums.

The students council of the college also conducts annual scientific meet (Ignite) where students of all the years and students from other dental colleges will be participating in the program. The program involves organizing guest lectures, presentation of research work by undergraduate students, poster presentations, dental debate, and dental quiz. In addition to these, the students are also encouraged to participate in innovation programs wherein the faculty of the college mentors and guides the innovative ideas from students and help in presenting their innovation at various forums, competitions. Further the students are encouraged to participate in the business competition held by the university wherein the selected innovations will be incubated and are supported with financial assistance to scale up the innovation.

48. State whether the program/ institution is accredited/ graded by other agencies? If yes, give details.

- All the programs conducted at Manipal College of Dental Sciences, Manipal are recognized by the statutory bodies. Following are the list of courses which are recognized by Dental Council of India, which is the statutory body for dental education in the country
 - 1. B.D.S
 - 2. M.D.S in all specialties
 - 3. PG diploma in Dental Materials
 - 4. Diploma course in Dental Mechanics
 - 5. Diploma course in Dental Hygienist
- In addition, the undergraduate program (BDS) is also recognized by
 - 1. Malaysian Dental Council since 2003
 - 2. Nepal Accreditation Board since 2004
 - 3. The college has been recognized as a center for International Qualifying Examination (IQE), UK from 2004
 - 4. The college has been recognized as a center for Diploma of the Membership of the Faculty of Dental Surgery from the Royal College of Physicians and Surgeons of Glasgow since 1999 and extended for all specialties from 2005
 - 5. Accredited by NAAC in 2002 with "B" grade (75%).



49. Briefly highlight the contributions of the institution in generating new knowledge, basic or applied.

- Manipal College of Dental Sciences, Manipal is the first private dental college in the country. Ever since its inception, the college has strived to excel in academics, patient care and research. The college has best infrastructural facilities, at par with international standards, and adopted best practices for teaching, learning and research. The college has been ranked as the best college in the country in the private sector since 2008 in a survey conducted by Outlook. Recently, Manipal College of Dental Sciences, Manipal has been ranked as the best college in the country by The week-Hansa survey too.
- The college has the distinction of having maximum number of research publications in the country among all the dental colleges in country.
- The college was instrumental in developing the syllabus and curriculum for the PG diploma in dental materials which is now recognized by the Dental Council of
- One of the first colleges to start certificate courses in Implantology, aesthetics and laser dentistry
- The college strives to innovate in research and this has led to first patent filings over the years.
- The college was able to lend support to budding entrepreneurs and this has resulted in successful establishment of a company (Dental Innovations Pvt Ltd).

50. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the institution.

Strengths:

- First self-financing Dental College in the Country.
- MCODS, Manipal has been consistently judged as the best Dental College in the Country in the survey conducted by Outlook and recently by Week for 8 consecutive years.
- The brand name of university attracts good number students seeking admission to professional courses
- An institute with great number of alumni who have made an impact around the globe.
- State of the art infrastructure for imparting clinical training for students.
- Dedicated and enthusiastic full time Faculty and non-teaching staff.

Weaknesses:

- Lack of dedicated working hours for research component in UG curriculum.
- Lack of a mechanism to record feedback about students by faculty
- Lack of mechanism to assess the personal traits of the students



Opportunities:

- The theoretical quality of dental study course in MCODS, is highly comparable to the quality of dental course in Dental Schools in US, this can attract students from US /UK and other countries.
- The knowledge and clinical skills imparted during the course of study can attract students from International University for short practical experiences, 'externship' at our institute.
- Research Activity among the faculty can attract universities abroad to have partnership in research projects.
- Externship for our students during vacation, students can rotate through premier research laboratories or research institutes

Challenges:

- Introduce a change in current curriculum i.e., self-directed learning through
- Mushrooming up of Dental Colleges may affect the availability of clinical material for UG & PG program.
- Degree awarded by MU is not recognized by universities in UK/US.
- The admission of foreign / NRI students to BDS degree program is weakening because of lack of recognition of degrees by their respective countries.

51. Future plans of the institution:

- To increase collaborations with international universities mainly to improve faculty and students exchange.
- To obtain recognition from the international universities for the courses offered by the institute.
- To modify the existing curriculum to incorporate self-directed and problem based learning.



ORAL MEDICINE AND RADIOLOGY

1. Faculty profile - adequacy and competency of faculty:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name | Qualification | Designation | Experience in |
|-----|------------------------|---------------|---------------|-------------------------------|
| No. | | | | years (As of 31 st |
| | | | | December 2014) |
| 1 | Dr. Keerthilatha M Pai | MDS | Professor and | 22 |
| 1 | Di. Reciumatia Wi i ai | WIDS | Head | |
| 2 | Dr. Vineetha R | MDS | Assoc. Prof. | 07 |
| 3 | Dr. Yogesh | MDS | Reader | 05 |
| | Chhaparwal | MDS | Reader | 03 |
| 4 | Dr. Shruti Acharya | MDS | Asst. Prof. | 03 |
| 5 | Dr. Nanditha Sujir | MDS | Asst. Prof. | 02 |
| 6 | Dr. Cyril Puliyan | BDS | Lecturer | 02 |
| | Varghese | טטט | Lecturer | 02 |
| 7 | Dr. Suman Anand | BDS | Lecturer | <01 |

| Category | Sanctioned (as per DCI) | Filled |
|----------------|-------------------------|--------|
| Teaching staff | 05 | 05 |
| Lecturer | - | 02 |

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner



- Change in examination pattern with inclusion of MCQs and short answers
- 5 year BDS course prescribed by DCI implemented for August 2008 batch of I BDS
- OSCE
- Problem based learning for clinical students with assignments
- Curriculum changed as per amendment to DCI regulations of 2007

4. Trends in the success and drop-out rates of students during the past two years BDS

| Year of | Total no. of | Total no. of | Percentage of | Dropout |
|--|--------------|--------------|---------------|---------|
| examination | students | students | pass | rate |
| | appeared | passed | | |
| Jan 2012 | 92 | 92 | 100% | 0 |
| Jan 2013 | 83 | 83 | 100% | 0 |
| Jan 2014 | 90 | 88 | 97.77% | 0 |
| Average pass percentage from 2012-2014= 99.25% | | | | |

MDS

| Month and | Number of | Number of | Percentage of | Dropout |
|---|-----------|-----------|---------------|---------|
| year | students | students | pass | rate |
| | appeared | passed | | |
| April 2012 | 02 | 02 | 100% | 0 |
| April 2013 | 02 | 02 | 100% | 0 |
| April 2014 | 03 | 03 | 100% | 0 |
| Average pass percentage from 2012-2014 = 100% | | | | |

5. Learning resources of the departments-library, computers, laboratories and other resources

| Description of resource | Quantity |
|--|----------|
| Text books related to the specialty | 89 |
| Dissertations | 60 |
| Library dissertations | 40 |
| Computers with internet connection | 04 |
| Computers without internet connection | 02 |
| ADA colour slide collection for teaching | 1830 |



| Seminar Room with LCD projector | 01 |
|---|---------|
| Digital and Conventional dental x ray machines | 01 each |
| Digital and Conventional panoramic x ray machines | 01 each |
| 60 mA portable GE X-ray machine | 01 |
| Dark room for manual x ray film processing | 01 |
| Daylight manual processor | 01 |
| Laptop with each MDS faculty member | 05 |
| Radiographic viewers | 08 |
| Intraoral camera | 02 |
| Sialography set | 02 |
| Biopsy tools | 02 |

6. Modern teaching methods practiced and use of ICT in teaching-learning

The department extensively uses audio-visual aids like PowerPoint and multi-media for teaching. In addition the facilities of the laboratories are made use of as and when needed.

While the predominant mode of undergraduate teaching is through didactic lectures, students are also required to submit assignments, participate in clinically-oriented procedures and present posters.

Post-graduate training is accomplished through a blend of presentation of seminars, clinical case discussions, journal reviews, clinical society meetings, library dissertation, thesis dissertation and short studies. Presentations (oral and poster-based) are made at National conferences and PG conventions.

- Introduced problem oriented learning- have developed material for same in the department
- Lectures are routinely taken using power point presentations
- Seminars for Undergraduate students

7. Participation of teachers in academic and personal counselling of students

MCODS provides mentoring to all students, with keen focus on the new students. The unique Teacher-Guardian scheme essentially allots one member of the teaching staff to oversee the welfare and progress of a group of 10 students. The attendance and performance in examinations is also monitored and students are counseled.

Records of these activities are maintained by the concerned teacher-guardian; a quarterly report of Student progress is prepared and sent to Director Student affairs, Manipal University by the College Office



- Dr. Vineetha R and Dr. Yogesh Chhaparwal are Teacher guardians for First BDS students of 2014 2015 students
- Dr. Keerthilatha M Pai Chairperson of Student Affairs of the College
- Dr. Vineetha R is member of the Image Enhancement Committee and website
 Committee of the institution

8. Details of faculty development programmes and teachers who have been benefited during the past two years

| S. | Title of Program and details | Attended by |
|----|---|--------------------|
| No | | |
| 1. | 44th Kerala State Dental Conference Jan.6th -8th 2012 | Dr. Vineetha R |
| | | Dr. Smita Rani |
| 2. | CDE program master class in oral pathology, medicine | Dr. Sunil Mutalik |
| | and microbiology at Bangalore 10th Aug 2012 | Dr. Shruti Acharya |
| 3. | CDE program on Publish or perish, Bangalore, 11th Aug | Dr. Sunil Mutalik |
| | 2012 | |
| 4. | International Conference-UICC World Cancer Congress, | Dr. Keerthilatha M |
| | at Montreal, Canada, Aug 27-30, 2012 | Pai |
| 5. | International Conference-FDI Annual World Dental | Dr. Sunil Mutalik |
| | Congress, Hong Kong, China, Aug 29-1st Sept. 2012. | Dr. Yogesh |
| | | Chhaparwal |
| 6. | CDE Programme on Periodontal Medicine, MCODS, | Dr. Keerthilatha M |
| | Manipal, 1st Sept.2012 | Pai |
| | | Dr. Vineetha R |
| | | Dr. Smita Rani |
| | | Dr. Shruti Acharya |
| 7. | International Conference Green Health, Mumbai, 6th to | Dr. Vineetha R |
| | 8th Sept 2012 | Dr. Shruti Acharya |
| 8. | CDE Programme on Management of Biofilms in | Dr. Keerthilatha M |
| | periodontal disease, MCODS, Manipal, 15th Sep. 2012 | Pai |
| | | Dr. Yogesh |
| | | Chhaparwal |
| | | Dr. Shruti Acharya |
| 9. | CDE Programme on Bone Grafting, MCODS, Manipal, | Dr. Keerthilatha M |



| | 29th Sep. 2012 | Pai |
|-----|---|--------------------|
| 10. | "Basics 2 diagnosis" Cone Beam Computed Tomography | Dr. Sunil Mutalik |
| | - Principles & Interpretation MCODS, Mangalore, 2nd | Dr. Yogesh |
| | Nov. 2012 | Chhaparwal |
| | | Dr. Smitha Rani |
| 11. | Workshop on "Teacher as Communication" -MCPD, | Dr. Vineetha R |
| | Manipal 15th Nov. 2012 | |
| 12. | UPDACON-2012 held at Lucknow on 17th and 18th | Dr. Keerthilatha M |
| | November 2012 | Pai |
| 13. | CDE Programme on "Composites-Color Sciences & | Dr. Keerthilatha M |
| | clinical considerations". MCODS Manipal 22nd Nov. | Pai |
| | 2012 | |
| 14. | 40th Karnataka State IDA conference B.C Road, Bantwal | Dr. Keerthilatha M |
| | on 30th November -2nd December 2012 | Pai |
| | | Dr. Sunil Mutalik |
| | | Dr. Vineetha R |
| | | Dr. Smitha Rani |
| 15. | CDE Programme on Sign-Outs Every Report Counts at | Dr. Keerthilatha M |
| | MCODS Manipal on 15th Dec. 2012 | Pai |
| | | Dr. Sunil Mutalik |
| | | Dr. Yogesh |
| | | Chhaparwal |

| S. | Title of Program and details | Attended by |
|----|---|--------------------------|
| No | | |
| 1. | 45th Kerala State Dental Conference Jan.11th -13th 2013 | Dr. Vineetha R |
| 2. | UAE International Dental Conference & Arab Dental Exhibition AEEDC Dubai 5th to 7th February 2013 | Dr. Shruthi Acharya |
| 3. | Hands on workshop on CBCT: VISUALIZATION of 3rd Dimension at MCODS, Mangalore on 22nd Feb. 2013. | Dr. Yogesh |
| 4. | 35th Asia Pacific Dental Congress 2013, Kuala Lumpur, 8- 12 May 2013 | Dr. Yogesh Chhaparwal |
| 5. | Workshop on BMJ case reports on 25thJune 2013 | Dr. Vineetha R |



| 6. | CPD program 'Towards success in Research Need for best | Dr. Vineetha R, Dr. |
|-----|---|----------------------|
| | Practices' on 6th July 2013, MCODS Manipal | Yogesh |
| 7. | CDE Programme "Current Concepts in the Management | Dr. Keerthilatha M |
| | of Aphthous Ulcers "on 27th July 2013, at MCODS, | Pai |
| | Mangalore | |
| 8. | International Workshop on Immuno bullous Diseases" on | Dr. Keerthilatha M |
| | 3rd& 4th August 2013 at department of Dermatology, | Pai, Dr. Vineetha R, |
| | Manipal | |
| 9. | IAOMR UG convention at Bangalore 31st August 2013 | Dr. Keerthilatha M |
| | | Pai |
| 10. | 41st Karnataka State Dental Conference at Madikeri 22nd | Dr. Yogesh |
| | to 24th Nov. 2013 | Chhaparwal, Dr. |
| | | Vineetha |

| S. | Title of Program and details | Attended by |
|----|--|------------------------|
| No | | |
| 1. | International Conference on Physical Education and | Dr. Yogesh |
| | Sports Science organized by Manipal University, Manipal | Chhaparwal |
| | and NAPESS 8 th to 11 th January 2014 | |
| 2. | Workshop on "Effective Electronic Communication" on | Dr. Shruthi Acharya |
| | 4 th Jan. 2014.Manipal Centre for Professional and Personal | |
| | Development | |
| 3. | Workshop on Basic Life support on 27 th Jan.2014 Manipal | Dr. Shruthi Acharya |
| | Simulation Centre Manipal (MU Certified) | |
| 4. | Workshop on 'Parenteral Drug Administration' on 20th | Dr. Vineetha ;Dr. |
| | March 2014 at Manipal Simulation Centre, Manipal | Shruthi Acharya |
| 5. | CPD Program - "Systematic Review and meta-Analysis on | Dr. Vineetha ;Dr. |
| | 22-23 August 2014 by department of Periodontology, | Shruthi Acharya |
| | MCODS, Manipal. | |
| 6. | Workshop on Parental Drug Administration- Hands on | Dr. Yogesh |
| | course 30 th August 2014 at Manipal Stimulation Centre | Chhaparwal |
| 7. | Colgate- IDA Future Dental Professional Program at | Dr. Keerthilatha M |
| | Manipal on 27 th September 2014 | Pai, Dr. Vineetha, Dr. |



| | | Shruthi Acharya |
|-----|--|---------------------|
| 8. | CDE on "Current concepts and challenges in | Dr. Vineetha ;Dr. |
| | Maxillofacial Infections" organized by Dept. of Oral and | Shruthi Acharya |
| | Maxillofacial Surgery, MCODS, Mangalore on 31st. Oct. | |
| | 2014 | |
| 9. | 36 th Annual Conference of Indian Society of Pedodontics | Dr. Keerthilatha M |
| | & Preventive Dentistry at Lucknow 14 th -16 th October | Pai |
| | 2014 | |
| 10. | CDE on "Head and neck Cancer: A multidisciplinary | Dr. Keerthilatha M |
| | update" on 30 th October 2014 at MCODS, Mangalore | Pai |
| 11. | 26th National Conference of Indian Academy of Oral | Dr. Keerthilatha M |
| | Medicine & Radiology held at Mangalore on 21st to 23rd | Pai |
| | Nov. 2014 | Dr. Vineetha |
| | | Dr. Yogesh |
| | | Dr. Shruthi Acharya |
| 12. | World Aids Day Symposium organized by Dept. of | Dr. Vineetha Dr. |
| | Microbiology, Kasturba Medical College on 29 th Nov. | Shruthi Acharya |
| | 2014 | |
| 13. | World Cancer Congress from 3 rd to 6 th December 2014 at | Dr. Keerthilatha M |
| | Melbourne, Australia: | Pai |

9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research

Teaching:

- Entire faculty is involved in teaching undergraduate and postgraduate students
- Setting question papers of Manipal university and other universities
- Writing articles for national as well as international journals.
- Contributing chapters in books.
- Presenting scientific papers in national and international annual conferences.
- Guest speakers for national conferences.
- Examiners for undergraduate and post-graduate examinations of other universities.

Consultancy:

- Faculty members are actively involved in patient care
- Diagnosis of oral and orofacial diseases and disorders



- Board of studies: Chairperson and members
- Writing oral health related articles in Newspapers and magazines for the general public

Research:

 Readers/ Assoc. Professors/ Professors are actively involved in guiding research conducted by postgraduate students

10. Collaboration with other departments/institutions, at the State, National and International levels, and their outcome during the past two years

- Collaboration with the Department of Laser Spectroscopy in developing a tool for early diagnosis of oral cancer
- Collaboration with Departments of Microbiology, Radiodiagnosis, Oral and Maxillofacial Surgery, Clinical Biochemistry, Radiodiagnosis in carrying out postgraduate projects

Details of Collaboration

| S. | Project name | Collaboration with |
|----|--|-------------------------|
| No | | |
| 1. | Determination of usefulness of Ultrasonography in | Dept. of Oral and |
| | diagnosis of superficial facial fractures- prospective | Maxillofacial Surgery & |
| | cross-sectional study | Radiodiagnosis, MCODS, |
| | | Manipal |
| 2. | Evaluation of usefulness of saliva in the diagnosis and | Dept. of Clinical |
| | monitoring of diabetes mellitus – a cross sectional | Biochemistry, KMC, |
| | study | Manipal |
| 3. | Visualization of the superior and inferior borders of | Department of OMR, |
| | the mandibular canal: a comparative study using | MCODS, Mangalore |
| | digital panoramic radiography reformatted panoramic | |
| | radiography and cross sectional cone beam computed | |
| | tomography-an in vitro study | |
| 4. | Efficacy of Rebamipide gargle in the prevention and | Department of |
| | treatment of radiation induced oral mucositis | radiotherapy, Kasturba |
| | | Hospital |
| | | Manipal |
| 5. | Evaluation of oral hygiene and dental status in patients | Haemophilia Society, |



| | with hemophilia- Case control study | Kasturba Hospital, |
|----|---|------------------------|
| | | Manipal |
| 6. | Effect of duration of mobile phone usage on total | Dept. of Clinical |
| | antioxidant capacity of saliva and salivary IgA- A | Biochemistry, KMC, |
| | cross sectional study | Manipal |
| 7. | Evaluation of correlation between lip prints and | Department of Computer |
| | ethnicity, gender and blood group- a comparative | Science, MIT, Manipal |
| | cross sectional study using manual and computerized | |
| | methods | |

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two year

Priority areas of research:

- Early detection of oral cancer
- Chronic orofacial pain and TMD
- Maxillofacial imaging

Ongoing:

| Category | Number |
|------------------------------|--------|
| Funded research projects | 00 |
| Non-funded research projects | 06 |
| PhD research projects | 00 |
| PG research projects | 06 |
| UG research projects | 02 |

Last 3 years (2012-2014):

| | | 2012 | 2013 | 2014 |
|--|------------------------|------|------|------|
| Completed fur | nded research projects | - | 1 | - |
| Completed non-funded research projects | | 02 | 03 | 03 |
| Completed PhD research projects | | - | - | - |
| Completed PG research projects | | 02 | 03 | 03 |
| Completed UG research projects | | - | - | - |
| Publications | International | 10 | 05 | 13 |
| 1 doneddons | National | 03 | 03 | 00 |
| Books | | - | 01 | - |
| Chapters in books | | 01 | 01 | - |



| Conference | International | 03 | 02 | 01 |
|---------------|---------------|----|----|----|
| presentations | National | 07 | 05 | 06 |

Ongoing PG projects

| S. No | Title of Project | Name of researcher | Guide |
|----------|--|--------------------|----------------|
| 1 | Visualization of the superior and inferior borders | Dr. Sakshi | Dr. |
| | of the mandibular canal: a comparative study using | Kamra | Keerthilatha M |
| | digital panoramic radiography reformatted | | Pai |
| | panoramic radiography and cross sectional cone | | |
| | beam computed tomography-an in vitro study | | |
| 2 | Efficacy of Rebamipide gargle in the prevention | Dr. | Dr. |
| | and treatment of radiation induced oral mucositis | Chaitanya | Keerthilatha M |
| | | | Pai |
| 3 | Evaluation and comparison of oral symptoms and | Dr. Swati | Dr. Vineetha R |
| | signs in diabetic and non-diabetic patients with | Kumar | |
| | chronic renal failure and undergoing hemodialysis | | |
| 4 | Evaluation of correlation between lip prints and | Dr. Aditi | Dr. Vineetha R |
| | ethnicity, gender and blood group- a comparative | Chadha | |
| | cross sectional study using manual and | | |
| | computerized methods | | |
| 5 | Evaluation of oral hygiene and dental status in | Dr. | Dr. |
| | patients with haemophilia- Case control study | Mathangi | Keerthilatha M |
| | | 1,144141151 | Pai |
| 6 | Effect of duration of mobile phone usage on total | Dr. | Dr. Yogesh |
| | antioxidant capacity of saliva and salivary IgA- A | Divyansh | Chhaparwal |
| | cross sectional study | Bansal | |

Completed PG research Projects:

| S. | Title | Name of the | Name of Guide |
|----|---|------------------|---------------------------|
| No | | student | |
| 1. | Precision of linear cephalometric measurement of dry human skull on lateral cephalometric images obtained | Dr. Nidhi Pathak | Dr. Keerthilatha M Pai |



| | from digital lateral cephalograms and | | |
|----|--|-------------------|--------------------|
| | cone – beam computed tomography – a | | |
| | comparative study | | |
| 2. | Antifungal agent as an adjuvant in the | Dr. Nandita Sujir | Dr. Keerthilatha M |
| | treatment of oral lichen planus- a RCT | | Pai |

2013

| S. | Title | Name of the | Name of Guide |
|----|--|------------------|--------------------|
| No | | student | |
| 1. | Accuracy of Linear Measurements on | Dr. Hitesh Shoor | Dr. Keerthilatha M |
| | Conventional IOPA Radiographs, Direct | | Pai |
| | Digital and Indirectly Digitized Periapical | | |
| | Radiographs – A Comparative Study | | |
| 2. | Comparison of Cephalometric | Dr. Pramod | Dr. Keerthilatha M |
| | Measurements Obtained With | Majumdar | Pai |
| | Conventional and Indirectly Digitized | | |
| | Methods and Their Reproducibility | | |
| 3. | Palatal Rugae pattern in different ethnics – | Dr. Vishal Kabre | Dr. Keerthilatha M |
| | a cross sectional study | | Pai |

| S. | Title | Name of the | Name of Guide |
|----|--|--------------|--------------------|
| No | | student | |
| 1. | Ability of two radiographic methods to | Dr. Vathsala | Dr. Keerthilatha M |
| | identify the closeness between the | | Pai |
| | mandibular third molar root and the inferior | | |
| | alveolar canal: a comparative in vitro study | | |
| 2. | Determination of usefulness of | Dr. Akshaya | Dr. Keerthilatha M |
| | ultrasonography in diagnosis of superficial | Rajeev | Pai |
| | facial fractures- a prospective cross- | | |
| | sectional study | | |
| 3. | Evaluation of usefulness of saliva in the | Dr. Komal | Dr. Keerthilatha M |
| | diagnosis and monitoring of diabetes | Smriti | Pai |
| | mellitus – a cross sectional study | | |



Details of Publications:

- Anshul Mehra, Keerthilatha M. Pai, Evaluation of Dimensional Accuracy of Panoramic Cross-Sectional Tomography, Its Ability to Identify the Inferior Alveolar Canal, and Its Impact on Estimation of Appropriate Implant Dimensions in the Mandibular Posterior Region Clinical Implant Dentistry and Related Research, Volume 14, Number 1, 2012
- Reddy Sudhakar reddy, Anuradha Pai, T.N. Uma Maheshwari, Shubha Gurudath and M. Keerthilatha Fibrosis in oral submucous fibrosis - an in vivo study to correlate it with reparative fibrosis due to trauma -Biomedicine: 2012; 32(1): 91 – 95
- Sunil Mutalik, Anindita Saha, Keerthilatha M. Pai, Evaluation of anatomy of impacted third molars: is 3-dimensional imaging always a necessity? OOOO Vol. 113 No. 2 February 2012
- Nanditha Sujir, Keerthilatha M. Pai, MRI evaluation of movement of the mandibular condyle and articular disk on application of an occlusal splint, OOOO Vol. 113 No. 6 June 2012
- Aditya Patney, Amar Sholapurkar, Keerthilatha M Pai, Monica Solomon, Recurrent Exophytic Growth on Maxillary Posterior Edentulous Alveolar Ridge – A Diagnostic Challenge; Dental Update, May 2012;286-90
- 6. Hitesh Shoor, Sunil Mutalik, Keerthilatha M. Pai, Should pain be used as predictor of prognosis in oral squamous cell carcinomas? OOOO Vol. 113 No. 3
- Smitha Rani Thada, Vineetha R, Keerthilatha M Pai :Unusual Clinical Presentation of Generalized Gingival Enlargement – A Report of 3 Cases International Journal of Collaborative Research on Internal Medicine & Public Health Vol. 4 No. 4 April 2012
- 8. Pramod Krishna Majumdar, Sunil Mutalik, Keerthilatha M. Pai, The therapeutic effects of anticonvulsants in the treatment of orofacial pain OOOO Vol. 113 No. 4 April 2012
- 9. Chhaparwal Y, Pai K, Vineetha R Chemoprevention of Oral Cancer. J Ind Aca Oral Med Radiol 2012;24(1):39-44
- 10. Nidhi P. Chauhan, Keerthilatha M. Pai, Sunil Mutalik, R. Balakrishnan, Manna Valiathan, Nanditha Sujir A progressively enlarging swelling of the palate Oral Surg Oral Med Oral Pathol Oral Radiol 2012
- 11. Gaurav Sharma, Manoj Vengal, Keerthilatha M Pai, Archna Nagpal, Hypoglossia Type 1A: report of a case and review of literature with focus on clinical investigations. Indian Journal of Dental research, 23(2),2012



- 12. N Sujir, KM Pai and N Pathak Letter to editor: Effectiveness of bone scans in the diagnosis of osteoarthritis of the temporomandibular joint. Dentomaxillofacial Radiology (2012) 41,708.
- 13. Yogesh Chhaparwal Keerthilatha M. Pai, Rohit B. Gadda, Vineetha Ravindranath Invasive cervical resorption: a diagnostic enigma *Hong Kong Dent J 2012;9:91-4

2013

- 1. R. Vineetha, *Pai K. M*, Chhaparwal Y, Thada S.R, Acharya S. Prevalence of abnormal panoramic radiographic findings in edentulous patients- A Pilot study Manipal Odontoscope 2013,4: 29-32
- 2. Honey Arora, Vibha Jain, *Keerthilatha M Pai*, Raman Kambhoj Precision of dimensional measurements of mandible in different positions on OPG:, Indian Journal of Dental Research, 24(1) 2013
- 3. Ajeet kumar, Patil Khoobram S. Choudhari Vayakkara Kolaprath Unnikrishnan Nandita Shenoy Ravikiran Ongole *Keerthilatha M. Pai* Vasudevan Bhaskaran Kartha Santhosh Chidangil Salivary protein markers: a noninvasive protein profile-based method for the early diagnosis of oral premalignancy and malignancy Journal of Biomedical Optics 18(10), 101317 (October 2013)
- 4. V Patil and *K Pai* Orofacial granulomatosis a diagnostic enigma; Oral Diseases (2013) 19, 217--218 doi:10.1111/odi.12008
- 5. Monica C Solomon, Ankur Kaur Shergill, *Keerthilatha M Pai*, Chetana Chandrashekar, Vimi S Mutalik, Sunitha Carnelio: Intra-osseous Neurofibroma in the maxilla of a young girl- a report of a rare case Innovative Journal of Medical and Health Science 3: 5 September October (2013) 235 237.
- 6. Ankur Kaur Shergill , Gurshinder Pal Singh , *Hitesh Shoor*, Monica Charlotte Solomon , Sunitha Carnelio Cellular Pleomorphic Adenoma with Mucoepidermoid Metaplasia An Unusual Presentation; Indian Journal of Research Volume : 2 | Issue : 10 | Oct 2013
- 7. Smitha Rani Thada, Rohit Gadda, *Keerthilatha Pai* Nerve afflictions of maxillofacial region: a report of two cases BMJ Case Rep 2013
- 8. Sampath Chandra Prasad, Nikhil Dinaker Thada, Pallavi Rao, Smitha Rani Thada, and Kishore Chandra Prasad; Grievous Temporal and Occipital Injury Caused by a Bear Attack Case reports in Otolaryngology Volume 2013, Article ID 957251

2014

1. Smitha Rani Thada, Keerthilatha Pai, Prevalence of habit associated oral mucosal lesions among the outpatients -A prospective cross sectional study International



- Journal of Research in Health Sciences. Jan–Mar 2014 Volume-2, Issue-1
- Aditya Patney, Keerthilatha M. Pai-Occulo-dento-glosso-mandibular syndrome Journal of Cranio-Maxillary Diseases / Vol 3 / Issue 1 / January 2014
- 3. Ravindranath Vineetha, Keerthilatha-M. Pai, Manoj Vengal, Kodyalamoole Gopalakrishna, Dinesh Narayanakurup; Usefulness of salivary alpha amylase as a biomarker of chronic stress and stress related oral mucosal changes a pilot study; J Clin Exp Dent. 2014;6(2):e132-7.
- 4. S Pandey, KM Pai, A Dhakal; Common positioning and technical errors in panoramic radiography; Journal of Chitwan Medical College 2014; 4(7): 26-29
- Hitesh Shoor, Keerthilatha M Pai: Letter to Editor: Single application of topical doxycycline hyclate in the management of recurrent aphthous stomatitis: remarks OOOO April 2014
- 6. Smitha Rani Thada, Keerthilatha Pai Papillon-Lefevre Syndrome Causing Social Stigma A Case Report and Review International Journal of Collaborative Research on Internal Medicine & Public Health Vol. 6 No. 6 (2014)
- 7. Smitha Rani Thada, Keerthilatha Pai, Pankaj Agarwal A huge oral pyogenic granuloma with extensive alveolar bone loss and 'sun-ray' appearance mimicking a malignant tumour BMJ Case Rep 2014. doi:10.1136/bcr-2013-202367
- 8. Nidhi P. Chauhan, Keerthilatha M. Pai, Sunil Mutalik, R. Balakrishnan, Manna Valiathan, Nanditha Sujir, A progressively enlarging swelling of the palate(Oral Surg Oral Med Oral Pathol Oral Radiol Vol 117, No 2, Feb 2014; 132-137)
- 9. Sunil Mutalik, Vimi S. Mutalik, Keerthilatha M, Pai, Venkatesh G. Naikmasur, Khoo Suan Phaik Oral Leukoplakia Is Biopsy at the Initial Appointment a Must? Journal of Clinical and Diagnostic Research. 2014 Aug, Vol-8(8): ZC04-ZC07
- 10. Vathsala Patil, BDS Keerthilatha M. Pai, MDS Letter to editor: Keratocystic odontogenic tumor: a commentary OOOO February 2014, 258
- 11. Sakshi Kamra, Keerthilatha M Pai Letter to editor: Lactobacillus salivarius WB21 tablets for the treatment of oral malodor: a commentary OOOO Vol. 118(4), 2014
- 12. Hitesh Shoor, Nanditha Sujir, Sunil Mutalik, Keerthilatha M Pai: Hypercementosis: a rare finding in a patient with systemic lupus erythematosus BMJ Case Rep 2014doi:10.1136/bcr-2013- 202370
- 13. Vishal Kabre, Keerthilatha M Pai, Komal Smriti, Sakshi Kamra: Primary Intraosseous Carcinoma of Mandible: A Case Report; IJSS Case Reports & Reviews, 2014, 1(5), 15-19.

Details of Books/ chapters in books published by faculty:



| S. | Name of | Title of Book | Name of | Publisher |
|----|--------------|-------------------------|--------------|------------|
| No | Book/chapter | | faculty | |
| 1 | Pedodontic | Textbook of Pedodontics | Keerthilatha | Paras |
| | Radiology | | M Pai | Publishers |

Details of Conference presentations:

- Dr. Keerthilatha M Pai: E-poster presentation on the "Effect of Tetrahydrocurcuminoids in the treatment of oral Leukoplakia". Also chaired a Scientific Session at UICC World Cancer Congress, at Montreal, Canada, Aug 27-30, 2012.
- 2. Dr. Keerthilatha M Pai: Guest lecture on Periodontitis-sixth complication of Diabetes mellitus at UPDACON-2012 held at Lucknow on 17th and 18th November 2012
- Dr. Keerthilatha M Pai: Dr. S Ramachandra Memorial Oration on Potentially malignant oral disorders at 40th Karnataka State IDA conference B.C Road, Bantwal on 30th November -2nd December 2012
- Dr. Sunil Mutalik: Paper Pathological findings in oral Leukoplakia cases following biopsy at initial appointment at International Conference-FDI Annual World Dental Congress, Hong Kong, China, Aug 29-1st Sept. 2012
- Dr. Sunil Mutalik Poster- Palatal Masses-a diagnostic dilemma at International Conference-FDI Annual World Dental Congress, Hong Kong, China ,Aug 29-1st Sept. 2012
- 6. Dr. Vineetha Paper titled 'Diseases in disguise- A diagnostic dilemma for dental practitioners" in the 44th Kerala State Dental Conference held at Trivandrum on 6th 7th and 8th January 2012
- 7. Dr. Vineetha R presented Poster-Gutka-silent killer in small packets International Conference Green Health, Mumbai, 6th 8th Sept 2012
- 8. Dr. Vineetha R Paper Presentation-Gingival Tuberculosis -A Diagnostic Tight spot at the 40th Karnataka State IDA conference B.C Road, Bantwal on 30th November -2nd December 2012
- Dr. Yogesh Chhaparwal: Paper presentation: A study to assess the efficacy and safety
 of Tetrahydrocurcuminoids in the treatment of oral Leukoplakia: open prospective
 clinical trial at International Conference-FDI Annual World Dental Congress, Hong
 Kong, China, Aug 29-1st Sept. 2012



10. Dr. Shruthi Acharya presented Poster Implementing the ALARA principle in academic dentistry-an Indian perspective at International Conference Green Health, Mumbai, 6th 8th Sept 2012.

2013

- 1. Dr. Keerthilatha M Pai Guest lecture on "Etiology and Diagnosis of Recurrent Aphthous Ulcers" at CDE Programme on 27th July 2013, at MCODS, Mangalore
- 2. Dr. Keerthilatha M Pai Guest lecture on "Management of Recurrent Aphthous Ulcers "at CDE Programme on 27th July 2013, at MCODS, Mangalore
- 3. Dr. Keerthilatha M Pai Guest lecture on "Approach to diagnosis of oral mucosal lesions" at IAOMR UG convention at Bangalore 31st August 2013
- 4. Dr. Shruthi Acharya presented a poster on Prevalence of Osteoradionecrosis in a cohort of patients treated with radiotherapy for head and neck cancer at Kasturba Medical College, Manipal at UAE International Dental Conference & Arab Dental Exhibition AEEDC Dubai 5th to 7th February 2013
- Dr. Yogesh Chhaparwal presented a paper on Invasive Cervical Resorption A
 Diagnostic Enigma at 35th Asia Pacific Dental Congress 2013, Kuala Lumpur, 8-12
 May 2013
- 6. Dr. Yogesh Presented a Scientific paper titled '3D Revolution in Oral and Craniofacial Imaging' 41st Karnataka State Dental Conference at Madikeri 22nd to 24th Nov. 2013
- 7. Dr. Vineetha presented a scientific paper titled "Clinicopathologic pattern and outcome of oral cancer in young patients- a pilot study at 41st Karnataka State Dental Conference at Madikeri 22nd to 24th Nov. 2013

- Dr. Keerthilatha M Pai Lecture on "Understanding the science behind mouthwashes and their multifaceted usage in Dental clinics" at Colgate- IDA Future Dental Professional Program at Manipal on 27th September 2014
- Dr. Keerthilatha M Pai Guest Lecture- "Approach to Diagnosis of oral mucosal lesions in children" at 36th Annual Conference of Indian Society of Pedodontics and Preventive Dentistry at Lucknow 14th to 16th October 2014
- 3. Dr. Keerthilatha M Pai Guest Lecture on "Potentially malignant oral disorders" and Panel discussion at CDE on "Head and neck Cancer: A multidisciplinary update" on 30th October 2014 at MCODS, Mangalore



- 4. Dr. Keerthilatha M Pai E poster on" Laser spectroscopy tool in the early diagnosis of tongue malignancy" at World Cancer Congress from 3rd to 6th December 2014 at Melbourne, Australia:
- 5. Dr. Yogesh Paper Presented- "Cleidocranial Dysplasia: A case report at 26th National Conference of Indian Academy of Oral Medicine & Radiology held at Mangalore on 21st to 23rd Nov. 2014
- Dr. Vineetha Paper presented "Intra lesional corticosteroid" at 26th National Conference of Indian Academy of Oral Medicine & Radiology held at Mangalore on 21st to 23rd Nov. 2014
- 7. Dr. Shruti Acharya Paper presented "Leimyosarcoma of the left posterior maxillary gingiva- deception unraveled" at 26th National Conference of Indian Academy of Oral Medicine & Radiology held at Mangalore on 21st to 23rd Nov. 2014

12. Placement record of the past students and the contribution of the department to aid student placements

| S. No | Year of completion of postgraduate course | Name of the Postgraduate | Institution where employed | |
|----------|---|-----------------------------|----------------------------|--|
| 1. | April 2012 | Dr. Aditi Lele | Private Practice at Mumbai | |
| | | Dr. Anindita Saha | Dental College, Calcutta | |
| 2. | April 2013 | Dr. Nandita Sujir | MCODS, Manipal | |
| | | Dr. Nidhi Pathak | Dental College, Gwalior | |
| 3. | April 2014 | Dr. Vishal Kabre | Vasanta Cancer Memorial | |
| | | | Trust hospital, Mumbai | |
| | | Dr. Hitesh Shoor | Guru Nanak Mission | |
| | | | Hospital, Hoshiarpur, | |
| | | Dr. Pramod | Punjab | |
| | | Majumdar | Sai Dental Clinic, | |
| | | | Hyderabad | |

13. Plan of action of the department for the next five years

- Organize a conference/ PG convention in the specialty
- Establish a clinic for TMJ and chronic facial Pain and potentially malignant oral disorders
- Improve the Imaging section of the department by having more advanced equipments such as CBCT/ Ultrasound machine



1. Faculty profile - adequacy and competency of faculty:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name | Qualification | Designation | Experience in |
|-----|----------------------|----------------|---------------|-------------------------------|
| No. | | | | years (As of 31 st |
| | | | | December |
| | | | | 2014) |
| 1 | Dr. Shashi Rashmi | MDS | Professor | 17 |
| | Acharya | | | |
| 2 | Dr. Vidya Saraswathi | MDS & | Professor and | 15 |
| | | Certificate | Head | |
| | | course in Oral | | |
| | | Implantology | | |
| 3 | Dr. Vasudev Ballal | MDS, PhD | Addl. Prof. | 10 |
| | | | | |
| 4 | Dr. Sandya kini K | MDS | Assoc. Prof. | 08 |
| 5 | Dr. Pradeep | MDS | Assoc. Prof. | 08 |
| 6 | Dr. Tina P.P | MDS | Assoc. Prof. | 07 |
| 7 | Dr. Krishnaraj | MDS | Reader | 04 |
| | Somayaji S. | | | |
| 8 | Dr. Swathi Pai | MDS | Asst. Prof. | 01 |
| 9 | Dr. Abhishek | BDS | Lecturer | 01 |
| 10 | Dr. Swathi | BDS | Lecturer | 01 |
| 11 | Dr. Akrithi | BDS | Lecturer | <01 |
| 12 | Dr. Surabhi | BDS | Lecturer | 02 |

| Category | Sanctioned (as per DCI) | Filled |
|----------------|-------------------------|--------|
| Teaching staff | 08 | 08 |
| Lecturer | - | 04 |



2. Student profile - entry level competencies, socioeconomic status, language proficiency etc.

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programs during the past three years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner.

Undergraduates

- OSPE introduced for the II years
- Multiple choice questions are taken from specified text books for final year students
- Cancellation of negative marking for multiple choice questions for undergraduates
- New practical exercises have been introduced for II BDS and IV BDS and the entire faculty has been involved in the design and execution of these practicals
- Changes include planning and execution of revised practical record book for II BDS students

Postgraduates

- Practical examination pattern as per DCI for postgraduates was implemented from 2012 onwards.
- Increase in the number of seminars
- Journal club presentations divided into research articles, case report and reviews.
- Daily log book has been implemented for assessment of clinical work
- A new dental laboratory is made and lab work conducted as per DCI requirements
- Faculty have been assigned for guidance and daily evaluation of clinical work

4. Trends in the success and drop-out rates of students during the past three years:

| Course | Pass Percentage (%) | | | Dropout Rate | | |
|---------|---------------------|-------|-------|--------------|-------|-------|
| | 2011- | 2012- | 2013- | 2011- | 2012- | 2013- |
| | 12 | 13 | 14 | 12 | 13 | 14 |
| III BDS | 100 | 100 | 98 | 0 | 0 | 0 |



| IV BDS | 94 | 98 | 97 | 0 | 0 | 0 |
|-----------------------|-----|-----|-----|---|---|---|
| PG Diploma in Dental | - | 100 | 100 | - | - | 0 |
| Materials | | | | | | |
| MDS | 100 | 100 | 100 | 0 | 0 | 0 |
| Certificate course in | 100 | 100 | 100 | 0 | 0 | 0 |
| Aesthetic Dentistry | | | | | | |

5. Learning resources of the departments - library, computers, laboratories and other resources:

| Description of resource | Numbers |
|--|---------|
| Text books | 63 |
| Journals | 24 |
| Dissertations | 40 |
| Library Dissertations | 20 |
| Computer with internet connection | 02 |
| Microscope | 01 |
| Apex locators | 05 |
| RVG and radiographic unit | 02 |
| Thermo plasticized gutta-percha unit | 04 |
| Automatic radiographic processor | 01 |
| Pressurized anesthesia | 03 |
| Library room | 01 |
| PG seminar room | 01 |
| Well-equipped PG laboratory | 01 |
| LCD | 01 |
| X-Smart and Anthogyr rotary hand piece | 4+2 |
| Endosonic hand pieces | 09 |
| Pressurized local anesthesia | 06 |
| Pickling kits | 04 |
| Surgical endo kits | 04 |
| Low speed high torque motors | 30 |
| Hufreidy hand instruments | 36 |
| Conventional VLC unit | 22 |
| Overhead projector | 01 |
| High speed hand pieces | 40 |



| Induction casting machine | 01 |
|---------------------------|----|
| Equipments for ceramics | 01 |
| Plaster dispenser | 02 |

6. Modern teaching methods practiced and use of ICT in teaching – learning:

II B.D.S

- Different types of modified cavity preparation designs introduced
- Use of Airotor on extracted teeth
- Use of high speed hand piece during caries excavation for tooth preparation deep caries management
- Introduction of practical exam exercises during regular postings for II BDS

III BDS

- Model work using airotor handpiece introduced from 2011 onwards
- Deep caries management introduced for model work
- Newer topics have been included for discussion
- Demonstration of class V cavity and glass ionomer restoration on patient
- Demonstration of deep caries management on patient
- Demonstration of class I cavity preparation, base placement ,and restoration using silver amalgam on patient
- Demonstration of class IV cavity and restoration using composite on patient

IV BDS

- Preparation &restoration of teeth with different types of direct restorative materials.
- Discussions and viva voce conducted
- Demonstration of modern equipments in the department
- Demonstration of root canal treatment on extracted tooth
- A total of 3 practical exam has been included for internal assessment
- Practical exam which includes root canal treatment on extracted tooth
- OSCE has been included in the clinical internal assessment
- Three oral examinations has been included for internal assessment

MDS

- Case discussions conducted once a week
- Attend and participate in various conferences, workshops, seminars and CDE programs



- 3 didactic lectures to undergraduate students has to be taken up by each PG
- Increase in the seminars and journal club presentations
- Modification of preclinical exercises
- Post graduates are guided to publish articles in reputed journals
- Final year postgraduates are guided to present innovative cases for clinical club
- Theory exams conducted at the end of first year as per dental council of India requirements
- Two practical mock exams are conducted before university exams
- Process for regular theory exams on selected topics for postgraduate students has been initiated

7. Participation of teachers in academic and personal counseling of students

- All the MDS faculty are involved in counseling for academic performance
- Teacher guardian involvement
- Members of Board of studies
- Panel of internal and external examiners
- As members in various college committee
- Periodic monitoring of attendance and assessment of assigned work
- Academic counseling at the end of each sessional exam for under graduate students
- Chairperson and judge for various events conducted for undergraduates
- Guide students for short projects, Paper and poster presentations
- To help students file patents
- To guide students pursuing Doctor in philosophy
- To monitor and judge Academic and cultural events.

8. Details of faculty development programs and teachers who have been benefited during the past three years

| S. | Title of the programme and Details | Attended by |
|----|--|-----------------------|
| No | | |
| 1 | Continuing Dental Education on "Full mouth | Dr. Vasudev Ballal, |
| | Rehabilitation" on 2 nd February 2012 at MCODS, | Dr. Amber |
| | Mangalore | |
| 2 | Continuing Professional Development Programme on | Dr. Vasudev Ballal, |
| | "Predictable Esthetic Restorations" on 1st March 2012 at | Dr. Sandya, Dr. Tina, |



| | MCODS, Mangalore | Dr. Amber, Dr. Sandya, |
|----|---|---------------------------|
| | | Dr. Krishna, Dr. Sunil, |
| | | Dr. Shashi Rashmi, Dr. |
| | | Vidya Saraswathi |
| 3 | Continuing Dental Education on "Management of | Dr. Vasudev Ballal, Dr. |
| | Biofilm in periodontal disease" on 15 th September at | Pradeep, Dr. Amber, Dr. |
| | MCODS Manipal 2012 | Vidya Saraswathi |
| 4 | Symposium on "Nanoscience & Technology" on 9th | Dr. Vasudev Ballal |
| | March 2012 at Centre for atomic and molecular physics, | |
| | Manipal | |
| 5 | Workshop on "Possibility of Research and Innovation | Dr. Vasudev Ballal |
| | Cooperation with Europe" on 25 th September, 2012 at | |
| | Manipal University | |
| 6 | Workshop on "Opportunities and approach for research | Dr. Vasudev Ballal |
| | grants, publishing papers, IPR & Patents, Research and | |
| | Ethics" on 5 th November 2012 at MCOPS, Manipal | |
| 7 | Workshop on "Colgate and IDA for Future Dental | Dr. Vasudev Ballal, Dr., |
| | Professionals" on 17 th November 2012 at Manipal | Dr. Sandya, Dr. Tina, |
| | University | Dr. Amber, Dr. Sunil, Dr. |
| | | Krishnaraj, Dr. Pradeep |
| 8 | Continuing Dental Education on "Composites- Color | Dr. Vasudev Ballal, Dr. |
| | Sciences & Clinical Considerations" on 22 nd November | Tina, Dr. Sunil, Dr. |
| | 2012 at MCODS, Manipal | Amber, Dr. Krishna, Dr. |
| | | Sandya, Dr. Pradeep |
| 9 | Workshop on "Excellence in writing research proposals, | Ballal |
| | funding, research methodology and scientific writing" | |
| | on 18 th December 2012 at MCOPS Manipal. | |
| 10 | CDE on Bone grafting by dept. of Periodontics on 29 th | Dr. Shashi Rashmi, Dr. |
| | September at MCODS Manipal 2012 | Sunil |
| 11 | Oral systemic link 2012 | Dr. Shashi Rashmi |
| 12 | Restorative Conclave: Yenepoya dental college and | Dr. Pradeep K |
| | hospital on 27 th Sept 2012 | |
| 13 | Update on periodontal medicine, September 1st | Dr. Amber, Dr. Sunil |
| | MCODS, Manipal 2012. | |
| | | 1 |



| S. | Title of the programme and Details | Attended by |
|----|--|----------------------------|
| No | | |
| 1 | Hands on workshop on CBCT: Visualization of third | Dr. Shashi Rashmi |
| | dimension, 22 nd February 2013, MCODS Mangalore | |
| 2 | "Recent Advances in Photonics" 23 rd February 2013 | Dr. Vasudev |
| | Manipal Centre for atomic and molecular physics | |
| 3 | Workshop on pedagogic and personal effectiveness, 21st | Dr. Swathi Pai |
| | -26 th February 2013, MCPD Manipal. | |
| 4 | Lecture in CDE at Endocon-2013, 9 th March 2013. | Dr. Shashi Rashmi |
| | Nadagouda dental college, Bagalkot. | |
| 5 | Yendocon 21 st March 2013, Yenepoya dental college | Dr. Vasudev, Dr. Pradeep |
| | and hospital, Mangalore | |
| 6 | Lecture in CDE at Yendocon 21st March 2013, | Dr. Shashi Rashmi |
| | Yenepoya dental college and hospital, Mangalore | |
| 7 | Workshop on how to write and publish a scientific | Dr. Pradeep |
| | article, 17 th and 18 th May 2013, KMC Manipal | |
| 8 | Restorative Conclave: 3 rd July 2013, Yenepoya dental | Dr. Pradeep |
| | college and hospital, Mangalore | |
| 9 | Towards success in research- needful best practices, 6th | Dr. Pradeep |
| | July 2013, MCODS, Manipal. | |
| 10 | Workshop on curriculum design, 9 th July 2013, MCPD | Dr. Pradeep |
| | Manipal | |
| 11 | Workshop on writing, editing and publishing research | Dr. Vasudev |
| | papers and checking for plagiarism with turnitin | |
| | software, 21 st August,2013, Manipal | |
| 12 | Emerging trends in dental education, 17 th September | Dr. Tina, Dr. Sandya, |
| | 2013, TMA Pai conference hall, Manipal | Dr. Pradeep, Dr. Shashi |
| | | Rashmi |
| 13 | All ceramic veneers, 20 th September 2013, MCODS, | Dr. Tina, Dr. Swathi Pai |
| | Mangalore | |
| 14 | Spectrum-13, 24 th October 2013 MCODS, Manipal | Dr. Sandya, Dr. Tina, |
| | | Dr. Krishna, Dr. Pradeep, |
| | | Dr. Swathi Pai, Dr. Shashi |
| | | Rashmi |



| 15 | Excellence in dental | research,16 th | November | 2013, | Dr. Swathi Pai |
|----|----------------------|---------------------------|----------|-------|----------------|
| | MCODS, Manipal | | | | |

| S. | Title of the programme and Details | Attended by |
|----|--|--------------------------|
| No | | |
| 1 | Mini workshop on teaching effectiveness, 25 th Jan 2014 | Dr. Sandya |
| 2 | IGNITE -2014, 6th March 2014, Manipal. | Dr. Tina |
| 3 | Mini workshop for post graduate dissertation guides, | Dr. Tina, Dr. Shashi |
| | 14 th June, 2014, KMC Manipal | Rashmi |
| 4 | Intraoral photography,17 th June 2014, MCODS, | Dr. Tina |
| | Mangalore | |
| 5 | Mini workshop for post graduate dissertation guides, | Dr. Sandya, Dr. Shashi |
| | 27 th June, 2014, KMC Manipal | Rashmi |
| 6 | Spectrum-14, 24 th October 2014 MCODS, Manipal | Dr. Shashi Rashmi, |
| | | Dr. Sandya, Dr. Tina, |
| | | Dr. Krishna, Dr. Pradeep |

9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research

Teaching

- The entire faculty is actively involved in teaching UG and PG students.
- Students are guided to take up short studies and publish work done in reputed journals
- Students are guided to present papers and posters at the national and international level
- Students are guided to participate in MUTBI

Consultancy

All faculty members are involved in performing treatment for clinical cases

Research by faculty:

| S. | Title | Faculty Involved |
|-----|---|------------------|
| No. | | |
| 1 | An in vitro evaluation of the antibacterial effect of calcium | Dr. Tina P P |
| | hydroxide and chlorhexidine on Enterococcus faecalis | |



| S. | Title | Faculty Involved |
|-----|--|------------------|
| No. | | |
| 1 | Factors affecting the right and left discrimination | Dr. Sandya kini |
| | ability among dental students | |
| 2 | Mineral drug against Enterococcus faecalis biofilm-An in | Dr. Swathi Pai |
| | vitro SEM study | |

2014

| S. | Title | Faculty Involved |
|-----|--|------------------|
| No. | | |
| 1 | Comparative evaluation of the compressive strength of | Dr. Sandya kini |
| | blood contaminated biodentine-An in vitro study | |
| 2 | Antimicrobial efficacy of chlorine dioxide against candida | Dr. Krishna |
| | albicans in stationary and starvation phases in human root | |
| | canals-An in vitro study | |
| 3 | Comparison of Antimicrobial efficacy of triphala, with | Dr. Krishna |
| | aniasomnifera and sodium hypochlorite against | |
| | enterococcus faecalis biofilm | |
| 4 | Evaluation of bond strength of splinting materials to the | Dr. Tina |
| | teeth using three adhesive systems-An in vitro study | |

10. Collaboration with other departments/ institutions, at the State, National and international levels and their outcome during the past three years

- Effect of maleic acid and ethylenediaminetetraacetic acid on the shear bond strength of RealSeal SE sealer to root canal dentin- with Prof. Baumgartner, Oregon Health and Science University, Portland, Oregon, USA 2012.
- Wettability of root canal sealers on intra-radicular dentin treated with different irrigating solutions- with Prof. Franklin Tay, Georgia Health Sciences University, Augusta, GA, USA & Dentsply, Tulsa, OK. USA 2012.
- 3. Effects of different irrigating solutions on the microstructure and physical properties of mineral trioxide aggregate- with Prof. Franklin Tay, Georgia Health Sciences University, Augusta, GA, USA &Dentsply, Tulsa, OK. USA-ongoing
- 4. Effect of newer irrigating agents on the physical properties of root canal dentin- with Prof. Fedrico Foschi, Kings College, London Dental Institute, Guy's Hospital,



- London, UK- ongoing
- 5. Evaluation of the antimicrobial property of a novel antiplaque agent on Enterococcus faecalis- with Dr. Anil Kishen, The University of Toronto, Faculty of Dentistryongoing
- 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past three years:

Priority areas of research

- Microbiology in Endodontics
- Adhesion
- Root canal irrigants
- Lasers in operative dentistry and endodontics

Ongoing:

| Category | Number |
|------------------------------|--------|
| Funded research projects | - |
| Non-funded research projects | 02 |
| PhD research projects | - |
| PG research projects | 12 |
| UG research projects | - |

Last 3 years (2012-2014)

| | | 2012 | 2013 | 2014 |
|------------------------------------|------------------|------|------|------|
| Completed funded research projects | | 04 | 04 | 04 |
| Completed non-funded re | esearch projects | 02 | 02 | 04 |
| Completed PhD research | projects | - | - | - |
| Completed PG research 1 | projects | 04 | 04 | 04 |
| Completed UG research | projects | - | - | - |
| Publications | International | 14 | 09 | 05 |
| | National | 11 | 06 | 03 |
| Books | | - | - | - |
| Chapters in books | | 01 | - | - |
| Conference | International | 02 | 03 | 01 |
| presentations | National | 06 | 11 | 08 |



Ongoing PG projects:

2013

| Title | Name of the | Guide |
|--|--|--|
| | student | |
| Comparative evaluation of the effect of different | Dr. Reaba | Dr. Shashi |
| root canal irrigants activated by Endoactivator on | | Rashmi |
| the bacterial load in single rooted teeth with a | | Acharya |
| radiographic periapical radiolucency- An in vivo | | |
| study | | |
| Efficacy of smear layer removal at the apical third | Dr. Vidya | Dr. Vidya |
| of root canal using different irrigation techniques- | Narayana | Saraswathi |
| An in vitro SEM analysis | moorthy | |
| Evaluation and comparison of the shear bond | Dr. Lisha | Dr. Shashi |
| strength of three resin based core build up | | Rashmi |
| materials bonded to Er-YAG irradiated dentin- | | Acharya |
| An in vitro study | | |
| Evaluation of the depth of cure of bulk fill | Dr. Archit | Dr. Vidya |
| composite materials using different light curing | kedia | Saraswathi |
| methods- An in vitro study. | | |
| A comparative evaluation of shear bond strength | Dr. Isha Jain | Dr. Vasudev |
| between zirconomer, bonded amalgam & | | Ballal |
| composite and fluoride release between | | |
| zirconomer and fluoride releasing composite – An | | |
| in vitro study | | |
| Comparison of Guttaflow with thermoplasticized | Dr. | Dr. Vasudev |
| guttapercha in filling internal resorptive cavities | Himanshu | Ballal |
| using CT scan: An in vitro study | | |
| | Comparative evaluation of the effect of different root canal irrigants activated by Endoactivator on the bacterial load in single rooted teeth with a radiographic periapical radiolucency- An in vivo study Efficacy of smear layer removal at the apical third of root canal using different irrigation techniques- An in vitro SEM analysis Evaluation and comparison of the shear bond strength of three resin based core build up materials bonded to Er-YAG irradiated dentin- An in vitro study Evaluation of the depth of cure of bulk fill composite materials using different light curing methods- An in vitro study. A comparative evaluation of shear bond strength between zirconomer, bonded amalgam & composite and fluoride release between zirconomer and fluoride releasing composite – An in vitro study Comparison of Guttaflow with thermoplasticized guttapercha in filling internal resorptive cavities | Comparative evaluation of the effect of different root canal irrigants activated by Endoactivator on the bacterial load in single rooted teeth with a radiographic periapical radiolucency- An in vivo study Efficacy of smear layer removal at the apical third of root canal using different irrigation techniques- An in vitro SEM analysis Evaluation and comparison of the shear bond strength of three resin based core build up materials bonded to Er-YAG irradiated dentin- An in vitro study Evaluation of the depth of cure of bulk fill composite materials using different light curing methods- An in vitro study. A comparative evaluation of shear bond strength between zirconomer, bonded amalgam & composite and fluoride release between zirconomer and fluoride release zirconomer zirc |

| S. | Title | Name of the | Guide |
|----|--|-------------|------------|
| No | | student | |
| • | | | |
| 1 | Comparative evaluation of calcium and hydroxyl | Dr. Aakriti | Dr. Vidya |
| | ion release through coronal dentin after pulp | Saini | Saraswathi |



| | capping using different pulp capping agents- an | | |
|---|--|--------------|-------------|
| | | | |
| | vitro study | | |
| 2 | Comparison of the efficacy of maleic acid | Dr. Sheetal | Dr. Vasudev |
| | ðylenediaminetetraacetic acid in the removal | Rao | Ballal |
| | of smear layer from curved root canals: A SEM | | |
| | study | | |
| 3 | Evaluation of push out bond strength of gutta | Dr. U. Shree | Dr. Tina |
| | flow 2 to root canal dentin treated with different | Teja | |
| | smear layer removal agents-An in vitro study | | |
| 4 | Comparative evaluation of micro leakage of | Dr. Payaswi | Dr. Sandya |
| | blood contaminated mineral trioxide aggregate & | Mohata | Kini |
| | Endosequence root repair material fast set putty | | |
| | by sucrose filtration method- an vitro study | | |
| 5 | Comparative evaluation of 2 different | Dr. Butala | Dr. Pradeep |
| | concentrations of bleaching agents on the surface | Roshni | |
| | hardness of 2 commercially available nano | Veena | |
| | composites- an vitro study | | |
| 6 | Effect of different concentrations of Hydrogen | Dr. Ananya | Dr. Shashi |
| | peroxide and remineralizing agent on surface | Maity | Rashmi |
| | characteristics of enamel: an in vitro AFM | | Acharya |
| | analysis | | |

Completed PG projects:

| S. | Title | Name of the | Guide |
|-----|--|--------------|----------------|
| No. | | student | |
| 1. | Smear layer removal Efficacy of maleic acid | Dr. Sanket | Dr. Shashi |
| | Using three different irrigation techniques- | Sheth | Rashmi Acharya |
| | continuous rinse, Manual dynamic Activation | | |
| | and passive Ultrasonic irrigation | | |
| 2. | Comparative effect of laser etching and silica | Dr. | Acharya |
| | coating as a surface conditioning methods on the | Chakravarthy | |
| | shear bond strengths of composite repair- an in | | |
| | vitro study | | |
| 3. | Ultramorphological changes of the root canal | Dr. Indhya | Dr. Vidya |



| | dentin by a 940nm diode laser along with 2.5% | | Saraswathi |
|----|--|-----------|-------------|
| | NaOCl and 17%EDTA irrigation –an SEM study | | |
| 4. | Effect of EDTA & maleic acid on the shear bond | Dr. Adlyn | Dr. Vasudev |
| | strength of Real Seal self-etch sealer to root canal | | |
| | dentin: an in vitro study | | |

| S. | Title | Name of the | Guide |
|----|--|--------------|----------------|
| No | | student | |
| 1. | Effect of Er Cr: YSGG irradiation of root canal | Dr. Sonal | Dr. Vidya |
| | dentin on shear bond strength of AH Plus sealer: | | Saraswathi |
| | an in vitro study | | |
| 2. | Comparative evaluation of microleakage in | Dr. Mrunal | Dr. Shashi |
| | Class V composite restorations following the | | Rashmi Acharya |
| | application of smear layer modifier – 4% | | |
| | titanium tetrafluoride with three different | | |
| | adhesive bonding systems: an in vitro study. | | |
| 3. | Comparative evaluation of accuracy of two | Dr. Deepika | Dr. Vasudev |
| | electronic apex locator and radiograph: an in | | Ballal |
| | vivo study | | |
| 4. | Evaluation of microleakage of root end cavity | Dr. Jatinder | Dr. Vidya |
| | prepared with ultrasonic retrotip and Er Cr: | | Saraswathi |
| | YSGG laser: an in vitro study. | | |

| S. | Title | Name of | Guide |
|----|---|-------------|-------------|
| No | | the student | |
| 1. | Evaluation of the biocompatibility of a novel | Dr. Shrey | Dr. Vidya |
| | tricalcium-silicate cement on an explant culture of | | Saraswathi |
| | periodontal ligament fibroblasts-An in vitro study | | |
| 2. | Comparative evaluation of the shear bond | Dr. | Dr. Vidya |
| | strength of the resin modified calcium silicate | Vrushalee | Saraswathi |
| | liner to resin composite using different protocols | | |
| 3. | Comparative evaluation of maleic acid and | Dr. Shubha | Dr. Vasudev |
| | ethylenediaminetetraacetic acid on sealing ability | | Ballal |



| | of tricalcium silicate cement and mineral trioxide aggregate- An in vitro study | | |
|----|---|----------|----------------|
| 4. | Effect of various post surface treatment | Dr. | Dr. Shashi |
| | techniques of glass fiber posts on the push out | Phalguni | Rashmi Acharya |
| | bond strength cemented by self-adhesive resin | | |
| | cement | | |

Details of Publications:

- 1. Vasudev Ballal. Sealing ability of Root canal Sealers. Saudi Endodontic Journal 2012;2(1):50-51.
- Muliya Vidya Saraswathi, George Jacob, Nidambur Vasudev Ballal. Evaluation of Influence of Flowable Liner and Two Different Adhesive Systems on the Microleakage of Packable Composite Resin, Journal of Interdisciplinary Dentistry, Vol. 2(2), 2012, pp 98-103
- 3. Vasudev Ballal. Aspire to prevention. British Dental Journal 2012;213(3):97.
- Ankit Arora, Shashi Rashmi, Vidya Saraswathi, Padmaja Sharma. Multiple Idiopathic Cervical Resorption - A diagnostic Dilemma. Quintessence International 2012; 43:187-140
- 5. Ankit Arora, Shashi Rashmi, Vidya Saraswathi, Padmaja Sharma. A comparative evaluation of dentinal hypersensitivity and microleakage associated with composite restorations in cavities preconditioned with air abrasion An ex vivo study. Contemporary Clinical Dentistry 2012; 3(4):306-313
- 6. Padmaja, Ankit Arora, Ashima Valiathan, Arun Urala, Shashi Rashmi. Gradual grinding of a Talon Cusp during Orthodontic treatment. J of Clinical Orthodontics 2012;12:111-114
- 7. Neeraj Malhotra, Shashi Rashmi. Conservative approach for esthetic repair of fractured ceramic facing in ceramic fused to metal crowns: A case series. Compendium 2012;33(12)
- 8. Krishna Somayaji, Shashi Rashmi, Mohandas, Venkatramana. Anatomy and clinical applications of the mandibular nerve. Bratisl Lek Listy 2012(113)7;431-440
- 9. K. Pradeep, K.M. Charlie, M. A. Kuttappa, Prasana Kumar Rao. Conservative Management of Type III Dens in Dente Using Cone Beam Computed Tomography. Journal of Clinical Imaging Science 2012;2 (3):1-5



- 10. Tina P.P, Ravi verma, Beena Antony. In vitro evaluation of the antibacterial effect of Calcium hydroxide and Chlorhexidine on Enterococcus faecalis. Guident national-2012;5(4);55-59.
- 11. Krishnaraj Somayaji S, Mohandas Rao KG. Relevance of Maxillofacial Anatomy in Endodontics: A Review. Acta Stomatologica Naissi, 2012;28:1128-1143
- 12. Krishnaraj Somayaji S, Mohandas Rao KG-Anatomy and clinical applications of the maxillary nerve in Dentistry: A Literature Review. Dental Update-2012;39:727-735
- 13. Ather A, Ather H, Sheth SM, Muliya VS. Unique case of a geminated supernumerary tooth with trifid crown. Imaging Sci Dent. 2012; 42(3):197-200.
- 14. Muliya Vidya Saraswathi, Nidambur Vasudev Ballal, Indhya Padinjaral, G. Subrya Bhat. Ultra-morphological changes of root canal dentin induced by 940 nm diode laser- an in-vitro study. Saudi Endodontic Journal 2012;2(3):131-135.
- 15. NV Ballal, SR Kumar, HK Laxmikanth, MV Saraswathi. Comparative Evaluation of Different Chelators in Removal of Calcium Hydroxide Preparations from Root Canals, Australian Dental Journal, Vol. 57, 2012, pp 344-348
- 16. Muralidhar Tummala, Veeramachaneni Chandrasekhar, A Shashi Rashmi, M Kundabala, Vasudev Ballal. Assessment of the wetting behavior of three different root canal sealers on root canal dentin. Journal of Conservative Dentistry 2012;15(2):109-112.
- 17. Ankit Arora, Shashi Rashmi Acharya, Vasudev Ballal, Padmaja Sharma. A self-designed instrument to evaluate cavosurface angle for class I amalgam cavity preparation: A learning aid. Journal of Conservative Dentistry 2012;15(3):253-256.
- 18. Laxmish Mallya, Shashi Rashmi Acharya, Vasudev Ballal, Narayana Prabhu. A comparative study of contact angle of calcium hydroxide to root canal dentine using different vehicles- An in vitro study. Endodontology2012;24(2):59-64.
- 19. Muliya Vidya Saraswathi, George Jacob, Nidambur Vasudev Ballal. Evaluation of the influence of flowable liner and two different adhesive systems on microleakage of packable composite resin. Journal of Interdisciplinary Dentistry 2012;2(2):98-103.
- 20. Laxmish Mallya, Shashi Rashmi Acharya, Vasudev Ballal, Narayana Prabhu. A comparative study of contact angle of calcium hydroxide to root canal dentine using different vehicles- An in vitro study. Endodontology 2012;24(2):59-64
- 21. Kshitij Bansal, Shashi Rashmi Acharya, Vidya Saraswathi. Effect of Alcoholic and Non-alcoholic Beverages on Color Stability and Surface Roughness of Resin Composites: An in-vitro Study Journal of Conservative Dentistry 2012;15(3):283-288



- 22. Murulidhar Thummala, Chandrasheker, Shashi Rashmi, Kundabala M, Vasudev Ballal. Assessment of the wetting behaviour of three different root canal sealers on root canal dentin. J of Conservative Dentistry.2012; 15(2):109-111.
- 23. Sunil Kumar Gupta, Jaya Gupta, Vidya Saraswathi, Vasudev Ballal, Shashi Rashmi Acharya. Comparative evaluation of microleakage in class V cavities using various glass ionomer cements: An in vitro study. Journal of Interdisciplinary Dentistry 2012;2(3):164-169.
- 24. Ankit Arora, Shashi Rashmi Acharya, Vasudev Ballal, Padmaja Sharma. A self-designed instrument to evaluate cavosurface angle for class I amalgam cavity preparation: A learning aid. Journal of Conservative Dentistry 2012;15(3):253-256.
- 25. Singh S, Sinha R, Kar SK, Ather A, Limaye SN. Effect of chlorine dioxide and sodium hypochlorite on the dissolution of human pulp tissue An in vitro study. Medical Journal Armed Forces India. 2012; 68(4): 356-359.

- 1. Kini SK, Muliya VS. Restoration of an endodontically treated premolar with limited interocclusal clearance. Indian J Dent Res2013;24:518-20.
- N. Vasudev Ballal, P.Y. Prakash, Muliya Vidya Saraswathi et al. Evaluation of antimicrobial activity of Anacardium Occidentale leaves against Enterococcus Faecalis and Candida albicans. International Journal of Clinical Dentistry, Vol 6(2), pp 113-120.
- Ankit Arora, Shashi Rashmi Acharya, Muliya Vidya Saraswathi, Padmaja Sharma, Amber Ather. Dilemmas pertaining to three canals in the mesiobuccal root of a maxillary second molar: a case report. Restorative Dentistry &Endodontics, 2013, pp172-177
- Sunil Kumar Gupta, Jaya Gupta, Shashi Rashmi Acharya, Amber Ather. Mandibular lateral incisor with four root canals: A unique case of double tooth diagnosed using multidetector computed tomography. Imaging science in dentistry. 06/2013; 43(2):123-128.
- 5. A Ather, Hunaiza Shashi Rashmi Acharya, Raghu Radhakrishnan. Lobodontia: the unravelling of the wolf teeth. Romanian journal of morphology and embryology.01/2013; 215-7.
- Ankit Arora, Padmaja Sharma, Shashi Rashmi Acharya. Technique to Incorporate mathematical Principles into Aesthetic Dentistry. J of Massachusetts Dental Society. Vol:62, No: 2, Summer 2013



- Sneha Sunder Rajan, Shashi Rashmi Acharya, Vidya Saraswathi. Nano Dentistry A Review. Indian. Journal of Science and Research.4(2):233-238,2013
- 8. Amber, Jothi V, Vidya, Vasudev, Shashi Rashmi. Interdisciplinary management of a two rooted mandibular first premolar with Furcation Involvement A two year follow up. J of Interdisciplinary Dentistry. Jan-Apr 2013. Vol 13, Issue 1, 33-35
- 9. Arindam Dutta, Kundabala, Shashi Rashmi. Sound levels in Conservative Dentistry and Endodontics clinic. J Conserv Dent. 2013 Mar-Apr; 16(2): 121–125.
- 10. Manuel Sebastian Thomas, Sandya Kini, Kundabala Mala. Factors affecting the right and left discriminationability among dental students. Journal of Education and Ethics in Dentistry July-December 2013 Vol. 3 Issue 2
- 11. Nidambur Vasudev Ballal, Adlyn Tweeny, Khaled Khechen, K. Narayan Prabhu, Satyanarayan, Franklin R Tay. Wettability of root canal sealers on intraradicular dentin treated with different irrigating solutions. Journal of Dentistry 2013;41(6):556-560.
- 12. N. Vasudev Ballal, B. Nageshwar Rao, M. Kundabala, Seetharama Bhat, B. S. Satish Rao. Assessment of genotoxic effect of Maleic acid and EDTA: A comparative *in vitro* experimental study. Clinical Oral Investigations 2013; 17:1319-1327.
- 13. Ballal NV, Tweeny A, Baumgartner JC, Ginjupalli K, Saraswathin V. Effect of Maleic Acid and Ethylenediaminetetraacetic Acid on the Shear Bond Strength of RealSealSE Sealer to Root Canal Dentin. Eur. J. Prosthodont. Rest. Dent., Vol.21 (4), pp 152-156.
- 14. Pradeep. Implants or Root canal treatment: Clinical guidelines and decision making. Journal of Dental Implants.2013 (1), 3.67-72.
- 15. Tina PP, Chakravarthy. Splinting the right way. Journal of Pearldent2013;4(1)1-4.

- Aamir Rashid Purra, Mubashir Mushtaq, Shashi Rashmi Acharya, Vidya Saraswati. A
 comparative evaluation of propolis and 5.0% potassium nitrate as a dentine
 desensitizer: A clinical study. Journal of Indian Society of Periodontology Vol 18,
 Issue 4, Jul-Aug 2014
- 2. Manikkath Aparna, Arumugam Chakravarthy, Shashi Rashmi Acharya, Raghu Radhakrishnan. A clinical report demonstrating the significance of distinguishing a nasopalatine duct cyst from a radicular cyst. BMJ Case Rep 2014.
- 3. Laxmeesh Mallya, Shashi Rashmi, Nandita Shenoy, Kanchana Kamath. The pathway of Endo Perio Relationship. Global Journal for Research Analysis. Vol:3.Issue:5, May 2014, 33-35



- 4. Ankit Arora, Shashi Rashmi Acharya, Padmaja Sharma. Endodontic treatment of a mandibular first molar with 8 canals: a case report. Restorative Dentistry and Endodontics ISSN 2234-7658 (print) / ISSN 2234-7666 (online)
- Nidambur Vasudev Ballal, Deepika Khandelwal, and Muliya Vidya Saraswathi.
 Rubber dam in endodontics an overview of recent advances. International Journal of Clinical Dentistry Vol. 6 (4): pp 319-330.
- 6. Nidambur Vasudev Ballal, Kadengodlu Seetharama Bhat, Shubha Rathi and Vidya Saraswathi. Amalgam Inlay- An Innovative Technique. The Journal of Dentist, Vol.2(1), pp29-32
- 7. , A.R Vivekananda Pai, Manuel S. Thomas. Effect of Ca(OH)2 & triple antibiotics paste as ICM on the incidence of flare up in diabetics. Journal of Conservative Dentistry, 2014: May-June 17(3) 208-11
- 8. Shrirur krishnaraj somayaji, NV Ballal, Shobha KL. Comparison of Antimicrobial efficacy of triphala with aniasomnifera and sodium hypochlorite against enterococcus faecalis biofilm- An in vitro study. International Journal of Pharmacy and Pharmaceutical Sciences, ISSN- 0975-1491 Vol 6, Suppl 2, 2014.

Details of Conference presentations, guest lectures and invited talks 2012

- 1. Dr. Shashi Rashmi chaired a scientific session at 5th National ISPRP Conference, Mangalore, 24-25th August, 2012.
- Dr. Vidya Saraswathi chaired a scientific session as panel expert at 5th National ISPRP Conference, Mangalore, 24-25th August 2012.
- 3. Dr. Vasudev Ballal presented a poster on Esthetic rehabilitation of a disfigured tooth at 5th National ISPRP Conference, Mangalore, 24-25th August 2012.
- Dr. Vasudev Ballal delivered a guest lecturer on Innovative Materials & Techniques in Endodontics at Dentistry in the light of Innovation at RibeirãoPreto, Brazil, 29th-31st August 2012.
- 5. Dr. Sandya Kini presented a poster on Gingival Veneers at 5th National ISPRP Conference, Mangalore, 24-25th 2012.
- 6. Dr. Pradeep K chaired a Scientific session as panel expert at 5th National ISPRP Conference, Mangalore, 24-25th August2012.
- 7. Dr. Tina presented a poster on Caress and cajole but never violate at 5th National ISPRP Conference, Mangalore, 24-25th August 2012.
- 8. Dr. Amber Ather presented a poster on Open to close, Seal and Heal at 27th IACDE & 20th IES National Conference, Dubai, 6th-9th December 2012.



- 1. Dr. Pradeep presented a paper on management of adolescent caries: Multidisciplinary approach at the 66th Indian Dental Conference, Kolkata on 22nd-25th February 2013
- 2. Dr. Sandya presented a paper on management of endo- perio lesion : multidisciplinary approach at the 66th Indian Dental Conference, Kolkata on 22nd-25th February 2013
- 3. Dr. Tina presented a paper on single step towards success at the 66th Indian Dental Conference, Kolkata on 22nd-25th February 2013
- 4. Dr. Swathi Pai has presented a paper on comparative evaluation of calcium hydroxide and triple antibiotic paste as intracanal medicaments on incidence of mid-treatment flare ups in endodontics at international conference on trends, challenges and opportunities in multidisciplinary health care on 14th and 15th March 2013 at Kuala Lumpur, Malaysia.
- 5. Dr. Pradeep presented a poster on chairside disinfection of guttapercha cones, an in vitro comparative study at the 14th IACDE/IES PG convention on 7th-9th June 2013 at Dharwad
- 6. Dr. Shashi Rashmi attended and chaired a keynote lecture at 14th IACDE/IES PG convention on 7th-9th June 2013 at Dharwad.
- 7. Dr. Shashi Rashmi attended and was a panelist at ICD Midyear Convention on 3rd August 2013.
- 8. Dr. Krishnaraj attended and presented a paper on comparative evaluation of with aniasomnifera ,triphala and sodium hypochlorite against e-faecalis biofilms in human root canals-in vitro study at the 2nd scientific meeting of international association of dental research south east Asian division from 21st to 23rd August held at Bangkok
- 9. Dr. Shashi Rashmi attended and chaired a keynote lecture at 28th IACDE and 21st IES national conference, Hyderabad on 14-17thNovember 2013
- 10. Dr. Shashi Rashmi delivered a keynote lecture at 6th ISPRP National conference from 4-6th October, 2013 at Bengaluru.
- 11. Dr. Tina presented a paper on Glitchecs inside outside at the 28th IACDE and 21st IES national conference, Hyderabad on 14-17th November 2013
- 12. Dr. Sandya presented a poster titled "Biodentine" at the Indian dental conference medikeri on 22nd-24th November2013.
- 13. Dr. Vidya Saraswathi presented a poster titled "Evaluation of surface deposits on resilon cones after disinfection with 2.5% Sodium Hypochlorite&13% Chlorine di oxide a SEM-EDX Study" at Japan on 23rd-26thMay 2013.



14. Dr. Vidya Saraswathi presented a guest lecture on "Take care to provide care" at the Indian dental conference medkeri on 22nd-24th November 2013.

2014

- 1. Dr. Krishnaraj presented a poster titled "Management of Open apex"-A case report at the 7th annual meeting of the Indian society of Prosthodontics, Restorative and Periodontics Conference at Bhopal on 22nd -24th August 2014.
- 2. Dr. Sandya presented a poster on "Biodentine" at the Holistic esthetics dental conference held in Bangalore on 1st October 2014.
- 3. Dr. Shashi Rashmi chaired a lecture session at 11th Roots Summit 2014 on 7-9th November at Mahabalipuram, Chennai.
- 4. Dr. Vidya Saraswathi chaired a lecture session at 11th Roots Summit 2014 on 7-9th November at Mahabalipuram, Chennai
- 5. Dr. Shashi Rashmi delivered a lecture on cervical restorations at 2nd Interstate and 42nd Karnataka state dental conference 28th-30th November 2014.
- 6. Dr. Pradeep presented a poster on platelet- rich fibrin with synthetic hydroxyapatite Granules: a novel approach for management of radicular cyst at 2nd Interstate and 42nd Karnataka state dental conference 28th-30th November 2014.
- 7. Dr. had presented a poster on treatment strategies for management of acute pulpoperiradicular pathosis-case series on 4-6th February 2014 at AEEDC, Dubai, UAE
- 8. Dr. has presented a poster on esthetic rehabilitation- a case report at 2nd Interstate and 42nd Karnataka state dental conference 28th-30th November 2014
- 9. Dr. Tina has presented a poster on Analysis of in vitro bond strength of splinting materials to the teeth using different adhesive systems at the annual world dental conference FDI, New Delhi on 11-14th September 2014.

12. Placement record of the past students and the contribution of the department to aid student placements

| S. | Year of | Name of the | Institution where employed |
|----|--------------|-----------------|---|
| No | passing | Postgraduate | |
| | postgraduate | | |
| | course | | |
| 1 | 2012 | Dr. Ankit Arora | Lecturer, K M shah dental college, Baroda |
| 2 | 2012 | Dr. Sanjana | Lecturer at dental college at Kerala |



| 3 | 2012 | Dr. Rahul | Consultant at Delhi | |
|----|------|-------------------------------------|---|--|
| 4 | 2012 | Dr. Sivakumar | Teaching faculty in Vivekananda dental | |
| | | school for girls at Tiruchengode, C | | |
| | | | and practice | |
| 5 | 2013 | Dr. S Anket | Private practice and consultant in Mumbai | |
| | | sheth | | |
| 6 | 2013 | Dr. Adlyn | Private practice and consultant in chirala, | |
| | | | Andhra Pradesh | |
| 7 | 2013 | Dr. Chakravarthy | Private practitioner Senior lecturer at | |
| | | Ramachandra dental college Chennai | | |
| 8 | 2013 | Dr. Indhya | Pursuing DDS at USA | |
| 9 | 2014 | Dr. Jatinder | Senior lecturer, Adesh dental college | |
| | | | Batinda | |
| 10 | 2014 | Dr. Sonal Consultant at Mumbai | | |
| 11 | 2014 | Dr. Mrunal Consultant at Mumbai | | |
| 12 | 2014 | Dr. Deepika | Senior lecturer at Geetanjali dental and | |
| | | | research institute Udaipur | |

13. Plan of action of the department for the next five years

- Conducting professional development programs for the benefit of PG students and faculty.
- Conduct take up research projects
- Attend and present papers at national and international level
- Encourage and guide students to conduct studies, attend conferences and present papers at national and international level
- Publish articles in reputed journals.
- Acquiring funds for research.
- Improve the infrastructure of the department



PERIODONTOLOGY

1. Faculty profile-adequacy and competency of faculty

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name of faculty | Qualification | Designation | Number of years |
|-----|-------------------|-------------------------|-------------|-------------------------|
| No | member | | | of teaching |
| | | | | experience |
| | | | | (As of 31 st |
| | | | | December 2014) |
| 1. | Dr. Betsy S | MDS, MBA, Cert. Oral | Professor & | 22 |
| | Thomas | Implantology | Head | |
| 2. | Dr. K Mahalinga | BSc, MDS, | Professor | 33 |
| | Bhat | Cert. Oral Implantology | | |
| 3. | Dr. Pratibha PK | MDS, Cert. Epidem, | Professor | 16 |
| | | Biostat and Res Method, | | |
| | | Cert. Aesthetic Dent | | |
| 4. | Dr. Jothi MV | MDS, Cert. Laser Dent | Reader | 10 |
| 5. | Dr. Meena Anand | MDS, Cert. Laser Dent | Reader | 10 |
| 6. | Dr. Rupali | MDS | Reader | 06 |
| 7. | Dr. Santhosh | MDS | Reader | 06 |
| | kumar | | | |
| 8. | Dr. Kanishk Gupta | MDS | Asst. Prof. | 04 |
| 9. | Dr. Pradeep Singh | BDS | Lecturer | <01 |
| 10. | Dr. Aditya Talwar | BDS | Lecturer | 01 |
| 11. | Dr. Vaibhav Sahay | BDS | Lecturer | 01 |

| Category | Sanctioned (as per DCI) | Filled |
|----------------|-------------------------|--------|
| Teaching staff | 8 | 8 |
| Lecturer | - | 3 |



2. Student profile entry level competencies, socioeconomic status, language proficiency etc.

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner.

Changes

Introduction of OSCE as part of University Practical examination

4. Trends in the success and drop-out rates of students during the past two years

| Course | Pass percentage | | | Drop outs | | |
|--------|-----------------|------|------|-----------|------|------|
| Course | 2012 | 2013 | 2014 | 2012 | 2013 | 2014 |
| BDS | 99 | 99 | 97 | Nil | Nil | Nil |
| MDS | 100 | 100 | 100 | Nil | Nil | Nil |

5. Learning resources of the departments - library, computers, laboratories and other resources

| Description of resource | Quantity |
|----------------------------------|----------|
| Textbooks | 86 |
| Dissertations | 133 |
| Library dissertations | 103 |
| Computers with internet facility | 02 |
| LCD | 01 |
| Overhead Projector | 01 |
| Study model | 01 |
| Piezo surgical unit | 01 |
| Electrocautery | 02 |
| Prophyjet | 01 |
| Composite Gun | 01 |
| Fiber Splint | 02 |
| Surgical Microscope | 01 |



6. Modern teaching methods practiced and use of ICT in teaching-learning

BDS

- Use of powerpoint presentations
- Small group teaching
- Tutorials
- Assignments / revision tests
- Problem based learning

MDS

- Seminars
- Chair-side discussion in clinics
- CDE programmes
- Inter department clinical club
- Video demonstration of live surgery
- Online learning
- e-Journals
- Critical review of journal article

7. Participation of teachers in academic and personal counseling of students

Faculty members are involved in the academic counseling (poor performance or poor attendance) of the students. Faculties are also the teacher guardian for BDS students.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

| S. | Details of the program | Attended by |
|----|--|----------------------------|
| No | | |
| 1. | Predictable esthetic restorations, Dept. of Conservative | Dr. Betsy S Thomas, Dr. |
| | Dentistry and Endodontics, 1st March 2012 | Pratibha PK, Dr. Jothi MV, |
| | | Meena A, Dr. Santhosh K, |
| | | Dr. Rupali A |
| 2. | Symposium on Nano Science and Technology Centre | Dr. Jothi MV |
| | for Atomic and molecular Physics, MIT, Manipal, 09th | |
| | March 2012 | |



| 3. | CDE - Update on Periodontal medicine, 1st September, | Dr. KM Bhat, Dr. Betsy S |
|----|---|---------------------------|
| | 2012 | Thomas, Pratibha PK, Dr. |
| | | Jothi MV, Dr. Meena A, |
| | | Dr. Santhosh K, Dr. |
| | | Kanishk G |
| 4. | CDE – Oral Biofilm, 15th September 2012 | Dr. KM Bhat, Dr. Betsy S |
| | | Thomas, Dr. Pratibha PK, |
| | | Dr. Jothi MV, Dr. Meena |
| | | A, Dr. Santhosh K, Dr. |
| | | Kanishk G |
| 5. | ISPRP Teacher training program, 22nd September, | Dr. Pratibha PK |
| | 2012 | |
| 6. | CDE - Bone Grafting with live demonstration of direct | Dr. KM Bhat, Dr. Betsy S |
| | sinus lift procedure, 29th September 2012 | Thomas, Dr. Pratibha PK, |
| | | Dr. Jothi MV, Dr. Meena |
| | | A, Dr. Santhosh K, Dr. |
| | | Kanishk G |
| 7. | CDE - Sign-Outs: Every report counts, 15th December | Dr. GS Bhat, Dr. Pratibha |
| | 2012 | PK, Dr. Meena A |
| 8. | National workshop Photonics in medicine and biology, | Dr. Pratibha PK |
| | Manipal University, August 20-22nd 2012 | |

| S. | Details of the program | Attended by |
|----|--|----------------------|
| No | | |
| 1. | AEEDC, 5-7 th February, Dubai 2013 | Dr. Betsy Thomas |
| | | Dr. Kanishk Gupta |
| 2. | "One day symposium on Recent advances in | Dr. Jothi M V |
| | Photonics" on Feb 23 rd 2013 | Dr. Kanishk Gupta |
| 3. | 35 th APDC conference, Kuala Lumpur, Malaysia, from | Dr. Rupali Agnihotri |
| | 8 th to 12 th May 2013. | |
| 4. | "Workshop on how to write and publish a scientific | Dr. Jothi M Varghese |
| | article" 17 th May 2013 at 9:15 am. | |
| 5. | FDI/CDA/SLDA joint international conference&80 th | Dr. Jothi Varghese |
| | anniversary annual scientific sessions of Srilanka | Dr. Meena Anand |



| | Dental association. June 27 th to June 30 th 2013 | |
|-----|---|--------------------------|
| 6. | Oral hygiene Practice for the Anganwadi workers and | Dr. Meena Anand |
| | training them in using the Oral hygiene aids on 24 th | |
| | June 2013. | |
| 7. | Periodontal medicine Talk on effect of system health | Dr. Kanisk Gupta |
| | on periodontium for medical students on 15th June | |
| | 2013. | |
| 8. | CDE programme organized by PHD Department. | Dr. Pratibha P. K |
| | Towards success in research-need for best practices on | Dr. Meena Anand |
| | 6 th July, 2013. | Dr. Rupali Agnihotri |
| 9. | Oral hygiene awareness at Nittur higher secondary | Dr. Betsy Thomas |
| | school, Udupi. Organized by Department of | Dr. Kanishk G |
| | periodontology. | |
| 10. | Oral hygiene practice for the Anganwadi workers | Dr. Betsy Thomas |
| | organized by Department of Periodontology in | Dr. Meena Anand |
| | physiology block. | |
| 11. | Health of Teeth, gums and mouth | Dr. KM Bhat |
| 12. | Oral hygiene awareness in pregnant and children | Dr. Betsy Thomas |
| | Department of OBG, KMC Manipal. Organized by | Dr. Jothi. V |
| | Department of periodontology. Awareness | Dr. Santhosh Kumar |
| | programme, on 29 th July 2013 | |
| 13. | Oral hygiene day screening and awareness programme | Dr. Betsy Thomas, Dr. K |
| | in the Department of Periodontology. Screening and | M Bhat, Dr. Pratibha PK, |
| | awareness programme on 31st July 2013. | Dr. Meena Anand, Dr. |
| | | Jothi V, Dr. Santhosh |
| | | Kumar, Dr. Rupali |
| | | Agnihotri, Dr. Kanishk |
| | | Gupta |
| 14. | CPD Programme, Invited speaker, 'Implant-Solutions' | Dr. K. Mahalinga Bhat |
| | held on 17 th August 2013 at Yenepoya University | |
| | campus, Deralakatte, Mangalore. | |
| 15. | 'Implant-Solutions' held on 17 th August 2013 at | Dr. Santhosh Kumar, Dr. |
| | Yenepoya University campus, Deralakatte, Mangalore. | Jothi MV |
| | | Dr. Meena Anand |
| | | Dr. Kanishk G, Pratibha |
| | | |



| | | PK, Meena K. Anand |
|-----|--|---------------------------|
| 16. | Emerging Trends in Dental Education CPD workshop | Dr. Meena A |
| | organized by Department of Prosthodontics Crown and | Dr. Santhosh K |
| | Bridge on 17-09-2013. | Dr. Pratibha P |
| 17. | Filing of Indian Patents & Patent filing support camp | Dr. Santhosh Kumar |
| | on 21-09-2013, in innovation centre building, MIT, | |
| | Manipal | |
| 18. | Integrated Learning by Bill Burdick on 23-09-2013 at | Dr. Meena Anand |
| | MU, Manipal. | Dr. Santhosh Kumar |
| 19. | CPD Programme "Spectrum' 13" On Thursday, 24th | Dr. Betsy Thomas, Dr. |
| | October 2013. | Pratibha P, Dr. Meena |
| | | Anand, Dr. Jothi V, Dr. |
| | | Rupali A, Dr. Kanishk G |
| 20. | Indian Society of Prosthodontics-Restorative - | Dr. Jothi V |
| | Perodontics 6 th National Conference held on 4 th , 5 th | |
| | and 6 th Oct 2013 at Bangalore, Karnataka, India | |
| 21. | 38 th ISP National Conference, 24 th -27 th October 2013, | Dr. K. M Bhat |
| | Shree Gokulum Convention Center, Kaloor, Kochi, | Dr. Betsy Thomas, |
| | Kerala. | |
| 22. | CDE on 14 th December 2013, Peizosurgery – a new | Dr. K. M Bhat, Dr. Betsy |
| | definition in bone surgery | T, Dr. Pratibha P. K, Dr. |
| | | Jothi MV, Dr. Santhosh, |
| | | Dr. Rupali, Dr. Kanishk |

| S. | Details of the program | Attended by |
|----|--|--------------------|
| No | | |
| 1. | Basic life support programme organized by the | Dr. Pratibha P.K |
| | medical simulation center on 5 th February 2014 | |
| 2. | Faculty development programme- "introduction to | Dr. Meena K. Anand |
| | Qualitative Research" on 7 th &8 th Feb 2014 | |
| 3. | 67 th IDC 21 st to 23 rd February 2014, Hitex, Hyderabad. | Dr. Meena K. Anand |
| | | Dr. Santhosh Kumar |
| | | Dr. Kanishk Gupta |
| 4. | 13 th ISP PG convention NITTE university campus, | Dr. Pratibha P. K |



| | KSHEMA auditorium, Deralakatte, Mangalore, 7-9 th | Dr. K. Mahalinga Bhat |
|-----|--|----------------------------|
| | March 2014. | |
| 5. | Oral health talk on the occasion of International | Dr. Betsy Thomas, Dr. |
| | women's day conducted by IDA Manipal branch in | Pratibha P. K, Dr. |
| | Dr. TMA Pai hospital Udupi on 10 th March 2014 | Santhosh kumar, Dr. |
| | | Meena K anand |
| 6. | Hands-on workshop on Routes of drug administration | Dr. Betsy S. Thomas, Dr. |
| | held in medical simulation centre, Manipal University | K. Mahalinga bhat, Dr. |
| | on 13 th March 2014 | Pratibha P. K, Dr. Jothi M |
| | | V, Dr. Meena A, Dr. |
| | | Santhosh Kumar, Dr. |
| | | Kanishk gupta |
| 7. | Manipal research colloquium, held at Manipal | Dr. K. Mahalinga Bhat |
| | University, Manipal on April 11 th to 12 th 2014 | |
| 8. | Onsite PSG - FAIMER Regional institute program | Dr. Meena Anand |
| | from 3-7 th April 2014 | |
| 9. | 2nd International Scientific conference conducted by | Dr. Jothi M Varghese |
| | the faculty of Dentistry at the Jordon University of | |
| | Science and Technology on May 7th-8th, 2014. | |
| 10. | Summer training 2014 30 th June – 5 th July | Dr. Pratibha P.K |
| | "Interdisciplinary sciences, research methods, | |
| | pharmaceutical sciences and health sciences organized | |
| | by "MU students research forum" under the aegis of | |
| | director of research, MU Manipal | |
| 11. | ISO auditor training workshop (16-18 th June 2014) | Dr. K. Meena Anand |
| 12. | 5 th International CAMLOG congress 26 th – 28 th June | Dr. Betsy S. Thomas |
| | 2014, Valencia, Spain | |
| 13. | Advancing excellence in health care Thursday 19th and | Dr. Betsy S. Thomas |
| | Friday 20 th June 2014 at Glasgow Scottish exhibition | |
| | and conference centre. | |
| 14. | CPD Program on "Systematic review and meta- | Dr. KM Bhat, Dr. Betsy S. |
| | analysis" held on 22 nd and 23 rd August 2014 | Thomas, Dr. Pratibha, Dr. |
| | | Meena K. anand, Dr. Jothi, |
| | | Dr. Rupali, Dr. Santhosh, |
| | | Dr. Kanishk |



| 15. | FDI Conference, 11 th 14 th September, Delhi | Dr. Rupali |
|-----|--|---------------------------|
| 16. | ISP Colloquium series 2014, on Periosystemic | Dr. Meena Anand |
| | interrelationship Held at GDC Bangalore on 5 th and 6 th | |
| | September 2014 | |
| 17. | Future dental professionals program held on 27 th | Dr. Betsy S. Thomas, Dr. |
| | September 2014. | Pratibha PK, Dr. Meena |
| | | Anand, Dr. Jothi MV, Dr. |
| | | Santhosh kumar, Dr. |
| | | Kanishk gupta, Dr. Rupali |
| | | agnihotri |
| 18. | Oral Presentation Session of the 7 th Instrumental | Dr. Pratibha P. K |
| | symposium sofia dental meeting, 2-5 th October 2014. | |
| 19. | 39 th ISP National Conference 10-12 th October 2014, B. | Dr. Meena Anand |
| | M Birla Science and technology center, Jaipur | |
| 20. | CPD Programme organized by the department of | Dr. Jothi MV, Dr. Meena |
| | Conservative and endodontics, Manipal College of | anand, Dr. Santhosh |
| | dental Sciences, Manipal on 24 th October 2014. | Kumar |
| 21. | Chairperson – Scientific session at 2 nd interstate and | Dr. Jothi MV |
| | 42 nd KSDC held on 28 th , 29 th and 30 th November 2014 | |
| | at sahyadri institute of technology, Mangalore. | |
| 22. | National grant writing workshop for health | Dr. Kanishk gupta |
| | professionals held on 29th and 30th November 2014, | |
| | Manipal University, Manipal | |

9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research

Teaching

All the faculty members are involved in the undergraduate and postgraduate teaching. In addition faculty members of the department are involved in the following academic activities

- Question Paper preparation
- Board of studies
- Examiners
- Members of college committees



Consultancy

• Faculty engaged in handling referral from other departments

Research by faculty

| S | Title | Faculty Involved | |
|-----|--|---|--|
| No. | | | |
| 1 | Comparative evaluation of gingival de-pigmentation after laser, | Dr. Betsy S Thomas, | |
| | cryo and gingival abrasive technique | Dr. Santhosh Kumar | |
| 2 | Influence of pro-oxidant and antioxidant status on diabetes mellitus | Dr. Pratibha P K | |
| 3 | Evaluation of the association of radiographic vertical bone loss with food impaction, trauma from occlusion and restoration overhang in patients: an observational study | Dr. KM Bhat, Dr. Santhosh Kumar | |
| 4 | Awareness of Medical emergencies among students | Dr. Kanishk Gupta Dr. Betsy S Thomas | |

10. Collaboration with other departments/institutions, at the state, national and international levels, and their outcome during the past two years.

2012

- 1. Dr. Tanya Jadhav completed a project titled "Efficacy of bioactive glass containing dentifrice in treatment of dentinal hypersensitivity A Clinical and SEM study" under the guidance of Dr. KM Bhat in collaboration with ICON Analytics, Mumbai.
- 2. Dr. Gowtham Suresh P completed a project titled "Evaluation of efficacy of occlusal correction in the stress distribution in the periodontium- a finite element study" In collaboration with MIT, Manipal.
- 3. Dr. K Meena Anand completed a project entitled "antiplaque efficacy of Lemon grass oil mouthwash An in vitro study in collaboration with the department of Biochemistry, KMC, Manipal.
- 4. Dr. Jothi MV completed a project titled, "Evaluation of Glutathione- S-Transferase and ceruloplasmin levels in GCF and gingival tissue as diagnostic markers for chronic periodontitis." In collaboration with the dept. of Biochemistry, KMC, Manipal.

2013

1. Dr. Aditi Chopra carrying out a project titled "To evaluate the effect of green tea on the antioxidant level in GCF and blood in patients with mild to moderate periodontitis: a



- randomized control clinical trial" under the guidance of Dr. Betsy S Thomas in collaboration with Department of Biochemistry, KMC, Manipal.
- 2. Dr. Ryschia Naik carrying out a project titled "To assess the effects of folic acid supplementation in smokers versus non- smokers with chronic periodontitis" under the guidance of Dr. GS Bhat in collaboration with Department of Biochemistry, KMC, Manipal, and Manipal College of Pharmaceutical sciences, Manipal.
- 3. Dr. Kumari Upasana carrying out a project titled "Effect of probiotic capsule administration in patients with gingivitis and mild to moderate periodontitis-a randomized control trial" under the guidance of Dr. Pratibha PK in collaboration with Department of Biochemistry, KMC, Manipal.
- 4. Dr. Jothi MV completed a project titled, "Antimicrobial effect of Anacardium occidentale leaf extract against pathogens causing periodontal disease." In collaboration with Dr. Kishore Bhat, Dept. of Microbiology, Maratha Mandal Dental college, Belgaum.

- 1. Dr. Mihir Kulkarni carried out a project titled "Clonal diversity of *Porphyromonas gingivalis* in varying severity of periodontitis" under the guidance of Dr. Betsy s Thomas in collaboration with Department of Microbiology, Maratha Mandal college, Belgaum.
- 2. Dr. Hrishi TS carried out a project titled "The efficacy of ozonated water against chlorhexidine as subgingival irrigant following scaling and root planning. A clinical and microbiological study" under the guidance of Dr. Pratibha PK in collaboration with Department of Microbiology, KMC, Manipal.
- 3. Dr. Swati Gupta carried out a project titled "Evaluation of polymer membranes for the sustained release of simvastatin" under the guidance of Dr. Pratibha PK in collaboration with Manipal College of Pharmaceutical Sciences, Manipal.
- 4. Dr. Meena Anand carried out a project titled "Preparation of lemongrass oil mouth wash" in collaboration with Manipal College of Pharmaceutical Sciences, Manipal.
- 5. Dr. Jothi MV completed a project titled, "Evaluation of the effectiveness of a new antibacterial agent on plaque biofilm." In collaboration with Dr. Kishore Bhat, Dept. of Microbiology, Maratha Mandal Dental college, Belgaum.

Ongoing Research

1. Dr. Kunal Gupta carrying out a project titled "Surface modification of Resin-modified GIC with crystalline Hydroxyapatite powder – an in vitro SEM / EDS topographical &



- fibroblast response study" under the guidance of Dr. Betsy S Thomas in collaboration with Manipal Life Science Centre, Manipal.
- 2. Dr. Jasmine Malhotra is carrying out a project entitled "Evaluation of effect of periodontal treatment on serum lipid levels" under the guidance of Dr. Pratibha PK in collaboration with Department of Biochemistry, KMC, Manipal.
- 3. Dr. K H Uma is carrying out a project entitled "A comparative evaluation of growth factor release kinetics from platelet rich fibrin clot and membrane an in vitro study" under the guidance of Dr. Betsy S Thomas in collaboration with Manipal Life Science Centre, Manipal.
- 4. Dr. Sagar Sikka is carrying out a project entitled "A comparative evaluation of gingival depigmentation using LASER, cryotherapy and electrosurgery a 6 month clinical study" under the guidance of Dr. Pratibha PK in collaboration with MIT, Manipal.
- 5. Dr. Ayon Gupta is carrying out a project entitled "Correlation of different genotypes of *Prevotella intermedia* in healthy, gingivitis and periodontitis patients in an Indian population an in vitro study using AP PCR" under the guidance of Dr. KM Bhat in collaboration with Maratha Mandal Dental College, Belgaum.
- 6. Dr. Meera is carrying out a project entitled "Antiplaque efficacy of pomegranate mouthwash as an adjunct to non-surgical therapy in patients with gingivitis and periodontitis a randomized controlled clinical trial" under the guidance of Dr. KM Bhat in collaboration with Manipal College of Pharmaceutical Sciences, and Department of Biochemistry, KMC, Manipal.
- 7. Dr. Rudra Mohan is carrying out a project entitled, "A comparative in vitro study investigating the dentinal changes caused by commercially available desensitizing toothpastes and lasers." Under the guidance of Dr., Jothi MV in collaboration with the Dept. of atomic and molecular Physics, MIT, Manipal.
- 8. Dr. Aishwarya Subramanian is carrying out a project entitled "Association between COPD and Periodontitis- a case control study" under the guidance of Dr. Betsy s Thomas in association with Dept. of Pulmonary Medicine, KMC, Manipal.
- 9. Dr. Shruti Raizada is carrying out a project entitled "Prevalence of fimA genotype II of Porphyromonas gingivalis in chronic periodontitis in the Indian population" in association with Dept. of Microbiology, Maratha Mandal Dental College, Belgaum.
- 10. Dr. Gina Maria is carrying out a project entitled "A clinical study to compare the bacterial flora on the dorsum of the tongue in patients with halitosis and healthy patients" under the guidance of Dr. KM Bhat in collaboration with the Dept. of Microbiology, KMC, Manipal.



- 11. Dr. Akshay Nigam is carrying out a project entitled "The efficacy of systemic administration of OMEGA-3 fatty acids as an adjunct in the treatment of chronic periodontitis in smokers- a clinical and biochemical study." Under the guidance of Dr. Pratibha PK in collaboration with the Department of Biochemistry, KMC Manipal.
- 12. Dr. Shravani Babladi is carrying out a project entitled, "Efficacy of NSPT on GPc levels in GCF and blood in patients with chronic periodontitis and type II diabetes mellitus." Under the guidance of Dr. Betsy S Thomas in collaboration with Dept. of biochemistry, KMC, Manipal.
- 13. Dr. Ranjitha N is carrying out a project entitled, "Evaluation of Cathepsin K levels in GCF among smokers and non-smokers with chronic periodontitis after non-surgical periodontal therapy." Under the guidance of Dr. Betsy S Thomas in collaboration with the dept. of Biochemistry, KMC, Manipal
- 14. Dr. K Amulya is carrying out a project entitled, "clinical evaluation of diabetic status on oncostatin -m levels in gingival biopsy specimens of patients with chronic periodontitis." Under the guidance of Dr. Pratibha PK in collaboration with dept. of Pharmaceutical sciences. MCOPS, Manipal.
- 15. Dr. Remya Warrier is carrying out a project entitled, "Evaluation of efficacy of Mangiferin gel as controlled release LDD in the treatment of chronic periodontitis." Under the guidance of Dr. KM Bhat in collaboration with the dept. of Pharmaceutical sciences, MCOPS, Manipal.
- 16. Dr. Siladitya Sen is carrying out a project entitled, "Correlation of different genotypes of Porphyromonas gingivalis in chronic periodontitis patients with and without diabetes. An in vitro study using HP: PCR and heteroduplex PCR." Under the guidance of Dr. K Meena Ananad in collaboration with the dept. of Microbiology, Maratha Mandal Dental College, Belgaum.
- 17. Dr. Siladitya Sen is carrying out a project entitled, "comparative analysis of total antioxidant levels (thiols and MDA) in saliva and tissue samples of chronic periodontitis patients with and without diabetes." Under the guidance of Dr. K Meena Ananad in collaboration with the dept. of Biochemistry, KMC Manipal
- 18. Dr. Rudra Mohan is carrying out a project entitled, "the effect of initial periodontal therapy on Pentraxin -3 levels in smokers and nonsmokers with chronic periodontitis." Under the guidance of Dr. Jothi MV in collaboration with the dept. of Biochemistry, KMC Manipal.
- 11. Priority areas for research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas of research



- Bone graft materials
- Antiplaque agents
- Antioxidants in Periodontal disease
- Platelet-rich fibrin
- Microbiology of Periodontal disease
- Host response in Periodontal disease
- Host Modulation in Periodontal disease
- Regeneration in Periodontal therapy

Ongoing

| Category | Number |
|------------------------------|--------|
| Funded research projects | - |
| Non-funded research projects | 22 |
| PhD research projects | - |
| PG research projects | 18 |
| UG research projects | - |

Last three years (2012-2014)

| | | 2012 | 2013 | 2014 |
|--|---------------------|------|------|------|
| Completed funded research projects | | - | - | - |
| Completed non-funded research projects | | 06 | 05 | 08 |
| Completed PhD research projects | | - | - | - |
| Completed PG research projects | | 04 | 04 | 06 |
| Completed UC | G research projects | - | 03 | - |
| Publications | International | 09 | 10 | 11 |
| 1 doncations | National | 17 | 14 | 04 |
| Books | | - | - | - |
| Chapters in bo | ooks | - | - | - |
| Conference | International | 03 | 06 | 05 |
| presentations | National | 19 | 01 | 04 |

Ongoing PG Projects

| S. | Title | Title Name of the | |
|-----|-------|-------------------|--|
| No. | | student | |



| 1 | Surface modification of Resin-modified GIC with | Kunal Gupta | Dr. Betsy S |
|----|--|----------------|-------------|
| | crystalline Hydroxyapatite powder – an in vitro | | Thomas |
| | SEM / EDS topographical & fibroblast response | | |
| | study" | | |
| 2 | Evaluation of effect of periodontal treatment on | Jasmine | Dr. |
| | serum lipid levels | Malhotra | Pratibha |
| | | | PK |
| 3 | A comparative evaluation of growth factor release | K H Uma | Dr. Betsy S |
| | kinetics from platelet - rich fibrin clot and | | Thomas |
| | membrane – an in vitro study | | |
| 4 | A comparative evaluation of gingival | Sagar Sikka | Dr. |
| | depigmentation using LASER, cryotherapy and | | Pratibha |
| | electrosurgery – a 6 month clinical study | | PK |
| 5 | Correlation of different genotypes of Prevotella | Ayon Gupta | Dr. KM |
| | intermedia in healthy, gingivitis and periodontitis | | Bhat |
| | patients in an Indian population – an in vitro study | | |
| | using AP - PCR | | |
| 6 | Antiplaque efficacy of pomegranate mouthwash as | Meera | Dr. KM |
| | an adjunct to non-surgical therapy in patients with | | Bhat |
| | gingivitis and periodontitis - a randomized | | |
| | controlled clinical trial | | |
| 7 | A comparative in vitro study investigating the | Rudra Mohan | Dr. Jothi |
| | dentinal changes caused by commercially available | | MV |
| | desensitizing toothpastes and lasers. | | |
| 8 | Association between COPD and Periodontitis- a | Aishwarya | Dr. Betsy S |
| | case control study | Subramanian | Thomas |
| 9 | Prevalence of fimA genotype II of Porphyromonas | Shruti Raizada | Dr. Betsy S |
| | gingivalis in chronic periodontitis in the Indian | | Thomas |
| | population | | |
| 10 | A clinical study to compare the bacterial flora on | Gina Maria | Dr. KM |
| | the dorsum of the tongue in patients with halitosis | | Bhat |
| | and healthy patients | | |
| 11 | The efficacy of systemic administration of | Akshay Nigam | Dr. |
| | OMEGA-3 fatty acids as an adjunct in the | | Pratibha |
| L | treatment of chronic periodontitis in smokers- a | | PK |



| | clinical and biochemical study. | | |
|-----|--|------------------|-------------|
| 13 | Clinical evaluation of the efficacy of mucosal | Rajesh | Dr. |
| | coronally positioned flap in the management of | | Pratibha |
| | patients with excessive gingival display. | | PK |
| 14 | Efficacy of platelet rich fibrin in intrabony defects. | Dipti Singh | Dr. KM |
| | | | Bhat |
| 12 | Efficacy of NSPT on GPc levels in GCF and blood | Shravani Babladi | Dr. Betsy S |
| | in patients with chronic periodontitis and type II | | Thomas |
| | diabetes mellitus. | | |
| 13 | Evaluation of Cathepsin K levels in GCF among | Ranjitha N | Dr. Betsy S |
| | smokers and non-smokers with chronic | | Thomas |
| | periodontitis after non-surgical periodontal therapy. | | |
| 14 | Clinical evaluation of diabetic status on oncostatin | K Amulya | Dr. |
| | -m levels in gingival biopsy specimens of patients | | Pratibha |
| | with chronic periodontitis. | | PK |
| 15 | Evaluation of efficacy of Mangiferin gel as | Remya Warrier | Dr. KM |
| | controlled release LDD in the treatment of chronic | | Bhat |
| | periodontitis | | |
| 16 | Correlation of different genotypes of | Siladitya Sen | Dr. K |
| | Porphyromonas gingivalis in chronic periodontitis | | Meena |
| | patients with and without diabetes. An in vitro | | Anand |
| | study using HP: PCR and heteroduplex PCR | | |
| 17 | Comparative analysis of total antioxidant levels | Siladitya Sen | Dr. K |
| | (thiols and MDA) in saliva and tissue samples of | | Meena |
| | chronic periodontitis patients with and without | | Anand |
| | diabetes." | | |
| 18. | The effect of initial periodontal therapy on | Rudra Mohan | Dr. Jothi |
| | Pentraxin -3 levels in smokers and nonsmokers | | MV |
| | with chronic periodontitis. | | |

Completed PG projects

| S. | Title | Name of the | Guide |
|----|-------|-------------|-------|
| | | | |



| No. | | student | |
|-----|---|----------------|-------------|
| 1 | The efficacy of ozonated water against | Hrishi TS | Dr. |
| | chlorhexidine as subgingival irrigant following | | Pratibha |
| | scaling and root planning. A clinical and | | PK |
| | microbiological study | | |
| 2 | Clonal diversity of Porphyromonas gingivalis in | Mihir Kulkarni | Dr. Betsy s |
| | varying severity of periodontitis | | Thomas |
| 3 | Evaluation of polymer membranes for the | Swati Gupta | Dr. |
| | sustained release of simvastatin | | Pratibha |
| | | | PK |
| 4 | A comparative clinical evaluation of periososteal | Gazal Gupta | Dr. Betsy s |
| | pedicle graft and subepithelial connective tissue | | Thomas |
| | graft in combination with coronally positioned | | |
| | flap. A Clinical trial. | | |
| 5 | The adjunctive role of subantimicrobial dose | Neha Sachdeva | Dr. KM |
| | doxycycline on glycemic control in diabetic | | Bhat |
| | patients following scaling and root planing. | | |
| 6 | Management of gingival recession using a | Janice Esteves | Dr. KM |
| | modified coronally advanced flap with and | | Bhat |
| | without a chorion membrane. A comparative | | |
| | clinical evaluation. | | |

| S. | Title | Name of the | Guide |
|-----|--|----------------|-------------|
| No. | | student | |
| 1 | Green tea as an adjunct in non-surgical | Aditi Chopra | Dr. Betsy S |
| | management of chronic periodontitis. A | | Thomas |
| | randomized controlled clinical trial. | | |
| 2 | The effect of improved periodontal health on | Ruchi | Dr. KM |
| | metabolic control in type II diabetes mellitus. | | Bhat |
| 3 | Evaluation of the effect of folic acid | Ryschia Naik | Dr. |
| | supplementation and folic acid mouthwash on the | | Pratibha |
| | antioxidant and pro-oxidant status in smokers and | | PK |
| | nonsmokers with chronic periodontitis. | | |
| 4 | The effect of pro-biotic capsule administration on | Kumari Upasana | Dr. |



| gingivitis and mild to moderate periodontitis- RCT | Pratibha |
|--|----------|
| | PK |

| S. | Title | Name of the | Guide |
|-----|--|----------------|----------|
| No. | | student | |
| 1 | Efficacy of bioactive glass containing dentifrice in | Tanya Jadhav | KM Bhat |
| | treatment of dentinal hypersensitivity – A Clinical | | |
| | and SEM study. | | |
| 2 | Evaluation of efficacy of occlusal correction in the | Gowtham Suresh | Pratibha |
| | stress distribution in the periodontium- a finite | P | PK |
| | element study | | |
| 3 | Evaluation of the influence of multiple factors on | Pooja Kekare | GS Bhat |
| | central papilla recession | | |
| 4 | Comparative evaluation of the efficacy of | Kanishk G | Betsy S |
| | combined autologous PRF with nano sized | | Thomas |
| | synthetic hydroxyapatite versus nano sized | | |
| | synthetic hydroxyapatite alone in the management | | |
| | of intrabony defects | | |

Details of Publications

- Agnihotri R, Gaur S. Chemically Modified Tetracyclines: novel therapeutic agents in the management of chronic periodontitis. Indian Journal of Pharmacology 2012; 2: 161-167.
- Bhide A, Pratibha PK, GS Bhat. Evaluation of Autogenous Cortical Bone Particulate with Bioactive Glass-Synthetic Hydroxyapatite in Treatment of Periodontal Bone Defects. International Journal of Bioscience, Biochemistry and Bioinformatics 2012; 2: 36-39.
- 3. Pratibha PK, Jain P, Anand KM, Bhat KM, Pentapati KC, Bhat GS. Association of Recurrent aphthous ulcers with stress among students in an Indian Dental Institution. National Journal of Integrated Research in Medicine 2012; 3: 141-147.
- 4. Singh V, Bhat KM, Bhat GS, Thomas BS. Modified Coronally positioned flap with Sling and Tag suturing for isolated gingival recession a pilot study. Archives of Dental Sciences 2012; 2: 31-36.



- 5. David K, Bhat KM. Prevalence of tooth-wear in patients attending the department of Periodontics, Manipal College of Dental Sciences, Manipal. NJIRM 2012; 3:136-141.
- 6. Jothi MV. Periodontal abscess. Journal of Interdisciplinary Dentistry. 2012; 2: 55-56.
- 7. Singh V, Bhat GS, Kumar S, Bhat KM. Comparative evaluation of Gingival Depigmentation by Diode Laser and Cryosurgery using Tetraflouroethylene (TFE) 18 months follow up. Clinical advances in Periodontics 2012; 2: 129-134.
- 8. Mapara M, Betsy Sara Thomas, KM Bhat. Rabbit as an animal model for experimental research. Dental Research Journal 2012; 9:111-118.
- 9. Bhat GS, Singh V, Bhat KM. Recurrent periodontal abscess associated with 'teeth as a tool'. Journal of Indian Society of Periodontology 2012; 16:113-114.
- 10. Mathew JJ, Bhat KM. Evaluation of a porous hydroxyapatite alloplast in the management of grade II furcation defects in molars. A case series. J Clin Exp Dent. 2012; 4: e97-101.
- Anand KM, Pratibha PK, Suresh G, Bhat GS, Yeshwanth P, Goyal R, Cornelio SM.
 Toothbrush contamination and disinfection of toothbrush A Review. Journal of Indian Academy Dental Specialists 2012; 4: 18-25.
- 12. Karim S, Pratibha PK, Kamath S, Bhat GS, Kamath U, Dutta B, Sharma N, Archana B, Bhat KM, Guddattu V. Superoxide dismutase enzyme and thiol antioxidants in gingival crevicular fluid and saliva. Dental Research Journal 2012; 9 (3): 266-72.
- 13. Malhotra J, Pratibha PK, Bhat GS. Enlightenment from within: Plasma rich in growth factors. Manipal Odontoscope 2012; 4: 38 42.
- 14. Pratibha PK, Sharma Y, Gopalkrishna B. Evaluation of stress contours on a maxillary molar subjected to simulated tooth loads by finite element analysis technique. Arch Orofac Sci (2012), 7(2): 43-49.
- 15. Kumar S, Bhat GS, Bhat KM. Development in techniques for gingival depigmentation An update. Indian Journal of Dentistry2012; 3 (4): 213-221.
- 16. Jothi MV, Bhat V, Bhat GS, Rao N. Evaluation of Glutathione-S-transferase and ceruloplasmin levels in gingival crevicular fluid and gingival; tissue as diagnostic markers for chronic periodontitis. Advances in Biosciences and Biotechnology 2012; 3: 437-441.
- 17. Mapara M, Jagtap B, Kanagotagi S, Thomas BS, Pandva A, Parerra A. Treatment of bilateral furcation involvement with bone graft and bioabsorbable barriers. Journal of Contemporary dentistry 2012; 2: 20-24.
- 18. Jadhav T, Jothi V, Hassija J, Bhat GS, Bhat KM. A pre prosthetic soft tissue augmentation using a simplified technique. Journal of interdisciplinary dentistry 2012; 2: 72-74.



- 19. Gaur S, Agnihotri R. Phenobarbital induced Stevens Johnson syndrome in a child. Indian Journal of Pharmacology 2012; 44(4): 531-432.
- 20. Betsy Thomas. Quo vadis. Editorial. e-journal of dentistry July-Sept 2012; 2 (3): 21.
- 21. Anand KM, Bhat GS, Chakravarthy KP, Goyal R. Antiplaque Efficacy of Lemongrass Oil Mouthwash An in-vitro Study. Global Journal of Medical Research 2012; 12 (7): Version 1.0: 19-23.
- 22. Jadhav T, Thomas BS. Platelet rich fibrin membrane for recession coverage. e-journal of dentistry July-Sept 2012; 2 (3): 223 227.
- 23. Mehta S, Gupta K. Bone sounding: a clinical tip for microimplant placement-. Guident 2012; 5: 50-51.
- 24. Chadha VS, KM Bhat. The evaluation of doxycycline controlled release gel versus doxycycline controlled release implant in the management of periodontitis. Journal of Indian Society of Periodontology April-June 2012; 16 (2): 200-206.
- 25. GS Bhat, Vishal Singh, KM Bhat. PAOO technique for the bimaxillary protrusion: Perio-ortho interrelationship. Journal of Indian Society of Periodontology October-December 2012; 16 (4): 584-587.
- 26. Karnik R, KM Bhat, Bhat GS. Prevalence of gingival overgrowth among elderly patients under amlodipine therapy at a large Indian teaching hospital. Gerodontology Sep 2012; 29(3): 209-13.

- Santhosh Kumar, G. Subraya Bhat, K Mahalinga Bhat. Evaluation of gingival depigmentation using Tetrafluoroethane cryosurgery and gingival abrasion technique two year follow up. Journal of Clinical and Diagnostic Research 2013. Feb, vol 7(2). 389 394.
- Tanya Jadhav; K. M. Bhat; G Subraya Bhat, Jothi M Varghese. Chronic Inflammatory Gingival Enlargement Associated with Orthodontic Therapy – A Case Report. Journal of dental hygiene Feb 2013 87. 35-39
- 3. Ruchika Goyal, Meena K Anand. Antibacterial effect of lemongrass oil on oral microorganisms: an in-vitro study. Journal of Pharmaceutical and Scientific innovation. March April 2013: 2(2). 41-43
- 4. Ruchika Goyal, Meena K Anand. Antibacterial effect of lemongrass oil on oral microorganisms: an in vitro study. Journal of Pharmaceutical and Scientific innovation. March April 2013: 2(2). 41-43
- 5. G.S. Bhat, Jothi V. Natures remedies for periodontal diseases-Review. Journal of clinical dentistry. 6; May 2013 68-78.



- 6. Ballal V, Jothi V, Bhat KS. Unconventional method of amalgam restoration –case report. Journal of Clinical Dentistry 6; May 2013. 12-15
- 7. Santhosh Kumar, G. Subraya Bhat, K. Mahalinga Bhat. Full mouth re-restoration of partially edentulous dentition: A periodontic, endodontic, orthodontic and prosthodontic interrelationship-2 year follow-up. Journal of Interdisciplinary dentistry Sep/Dec 2012, Available online on 11 June, 2013. Vol-2, 211-214.
- 8. K Mahalinga Bhat, Santhosh Kumar. Wrong beliefs and misconceptions about dental treatment. Arogyavani Kannada weekly newspaper. August 18, 2013. Page No. 5-6.
- 9. K Mahalinga Bhat, Santhosh Kumar. Wrong beliefs and misconceptions about dental treatment. Arogyavani Kannada weekly newspaper, August 25, 2013. Page No. 5-6.
- 10. Meena K. anand, Kalyan C, Gowtham S, Ruchika goyal, Sonali Cornelio. Smoking reinitiation after cessation program: comparison of associated factors between young and older adults. Journal of natural science, biology and medicine, 2013, 4(2). 440-444.
- 11. Jothi MV, Vijay Ballal, G. S Bhat. Antimicrobial effect of Anacardium occidentale leaf extract against pathogens causing periodontal disease. Advances in bioscience and biotechnology 2013. 14. Page No. 15-18
- Aditi chopra, Betsy Thomas. Amniotic membrane: A novel material for regeneration & repair. Journal of biomimetics biomaterial & tissue engineering 2013. 15(1): Page No. 106
- 13. Aditi chopra, Betsy Thomas. Calcium phosphate a novel material for ridge augmentation. e-journal of dentistry 2013. 3(1): Page No. 323-326.
- 14. Junima R, Thomas BS, Rao SK. Inter-relation between rheumatoid arthritis and Periodontitis. Katmandu Medical Journal 2013; 41(1): Page. 22 26
- 15. Swathi P, Betsy Thomas, Prahlad Kustagi. Periodontal disease and pregnancy hypertension. A clinical co-relation. J. Periodontol 2013; 84: Page. 1118 1125.
- 16. Ather A, Varghese M J, Saraswathi M V, Ballal V, Acharya S. Interdisciplinary management of a two-rooted mandibular first premolar with furcation involvement: A 2-year follow-up. Journal of interdisciplinary dentistry 2013. 3(1): 33-35.
- 17. Giri DK, Kundapur PP, Bhat GS, Bhat KM, Guddattu V. Periodontal disease and obesity in an Indian population. Nepal Journal of Medical Sciences. July –December 2013: 2(2): 144-148.
- 18. Jothi V. Treatment strategies in regeneration of endo-perio lesions. Saudi Endodontic Journal 2013 3: 148-150.
- 19. Santhosh Kumar, G. Subraya Bhat, K. Mahalinga Bhat. Effectiveness of Cryogen Tetrafluoroethane on Elimination of Gingival Epithelium and its Clinical Application



- in Gingival Depigmentation–Histological Findings and Case Series. Journal of Clinical and Diagnostic Research 2013. Vol 7(12): 3070 3072.
- 20. Loomba S, Jothi V. Cocos Nucifera: Its Properties and Contributions to Dentistry. International journal of scientific study; 1: 138-140.
- 21. Jothi V. Lasers- a revolutionary beam to dentistry. The Dentcare Health Magazine 2013. 42-46.
- 22. Giri D, Kundapur P, Singh V P. Immediate implants in dentistry: A review. Pakistan oral and dental journal 2013. 33; 3: 449-454.
- 23. Kanishk Gupta, Santhosh Kumar, Meena Anand CBCT Part 1. Manipal Odontoscope, 2013; 5: 30-43.
- 24. Kanishk Gupta, Jothi V, Siddharth Mehta, CBCT Part 2. Manipal Odontoscope 2013; 5: 44-55.

- 1. Agnihotri R, Gaur S. Rheumatoid arthritis in the elderly and its relationship with periodontitis: A review. Geriatr Gerontol Int 2014. 14(1): 8-22.
- Jothi V, Vasudev Ballal, S. Pradeep. Esthetic rehabilitation of a disfigured tooth using an interdisciplinary approach. International journal of clinical dentistry 2014. 6. 309-405.
- 3. Priyal matreja, Rajshree bhandari, Meena Anand, Seema shetty, srinivasan raj Samuel and Betsy S. Thomas. Is your tooth Cleaner, Clean...???. Global journal of medical research dentistry and otolaryngology (online on 2014). 13 (2). 19-22.
- 4. Sumit Gaur, Rupali Agnihotri. Green tea: A novel functional food for the oral health of older adults. Geriatrics and Gerontology International 2014; 14 (2): 238-250
- 5. Gazal Kaushalendra Gupta, Mihir Raghavendra Kulkarni, Betsy Sara Thomas. Postoperative morbidity following the use of the inverted periosteal graft: A case series. Journal of Indian Society of Periodontology 2014; Vol. 18, No. 1, January-February: 82-84.
- 6. Dr. Meena Anand Kukkamalla, Dr. Sonali Maria Cornelio, Dr. Khandige Mahalinga Bhat, Dr. Meera Avadhani, Dr. Ruchika Goyal. Periodontal Disease as a Risk Factor for Preterm Delivery and Low Birth Weight. IOSR Journal of Dental and Medical Sciences (IOSR-JDMS); Volume 13, Issue 5 (May. 2014),: 55-61
- 7. Rupali Agnihotri, Sumit Gaur. Implications of tobacco smoking on the oral health of older adults: Geriatrics and Gerontology International 2014;14 (3): 526-540.



- 8. Mihir K, Betsy Thomas, Jothi V, G.S Bhat. Platelet rich fibrin as an adjunct to palatal wound healing after harvesting a free gingival graft: a case series; Journal of Indian society of Periodontology: 18: 399-402.
- 9. Jothi V, V. Ballal. Palatoradicular groove. Saudi endodontic journal; 4: 160-161.
- 10. Ballal V, Jothi V. Amlexanox. British dental journal. 217: 208
- 11. Kalyana Chakravarthy Pentapati, Neeraja Sabnis, Bharatbhushan Shrikhande, Ramnaresh Kashyap, Meena Anand Kukkamalla. Stain Removal Efficacy of Herbal Mouth Rinses Containing Sodium Hexametaphosphate. Journal of Research in Medical Education & Ethics. Vol. 4, No. 2, July, 2014, pp-165-170.
- 12. Meera Avadnani, K. Mahalinga Bhat, Meena anand. Porous Titanium Granules. IOSR Journal of Dental and Medical Sciences (iOSR-JDMS); 13(9): 83-91.
- 13. D Giri, P Kundapur, I K Maharajan. Betel nut chewing associated with severe periodontitis. Health renaissance 2014; 12(1):57-60.
- 14. K. Meena Anand, Syed Suhail, Vadlamudi Murali Krishna, Satheesha BC, Rajesh M, Meera A, Anand KM. Finite Element Analysis in Dentistry. International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869, Volume-2, Issue-8, August 2014.
- 15. Dr. Meena Anand Kukkamalla, Dr. Sonali Maria Cornelio, Dr. Khandige Mahalinga Bhat, Dr. Meera Avadhani, Dr. Ruchika Goyal. Halitosis – A Social Malady IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) 2014;13(5):55-61

Details of Conference Presentations

- Upasana, Pratibha P K, GS Bhat presented a paper 'Diversity of gingival tissue use in periodontal therapy' at the 11th National ISP PG Convention held at Lucknow from 6th -8th April.
- 2. Gazal G, Betsy S Thomas, GS Bhat presented a paper 'Prevalence of gingival biotype in young adults' at the 11th National ISP PG Convention held at Lucknow from 6th -8th April.
- 3. Ryschia Naik, GS Bhat presented a paper 'Oxidative stress in smokers with periodontitis a cross sectional study' at the 11th National ISP PG Convention held at Lucknow from 6th -8th April.
- 4. Mihir K, GS Bhat presented a paper 'Awareness about Oral health among medical professionals in India' at the 11th National ISP PG Convention held at Lucknow from 6th -8th April.



- 5. Betsy S Thomas presented a Guest Lecture 'Improvements in UG and PG Curriculum' at Society of Periodontists and Implantologists of Kerala (Spik) Faculty Enrichment program at the Govt. Dental College, in TRIVANDRUM on 29th January.
- 6. Aditi Chopra, Betsy S Thomas presented a paper 'Building blocks of bone regeneration: a novel approach' at the ICDRO held at Goa from 14th -16th September.
- 7. Ruchi Raval, KM Bhat presented a paper 'Gold standard: Case series of autogenous bone graft' at ICDRO held at Goa from 14th -16th September.
- 8. Swati Gupta, Pratibha PK presented a paper on 'Chitosan scaffold in GTR –A novel osteopromotive approach' at ICDRO held at Goa from 14th -16th September.
- 9. Janice Esteves, KM Bhat presented a paper 'Amnion membrane: A potential technique for Guided Tissue Regeneration' at ICDRO held at Goa from 14th -16th September.
- 10. Neha Sachdeva, KM Bhat presented a paper 'Distraction Osteogenesis: Predictable ridge augmentation for implant placement' at ICDRO held at Goa from 14th -16th September.
- 11. Sagar Sikka, GS Bhat presented a paper 'Back to basics: Monocytes in bone regeneration' at ICDRO held at Goa from 14th -16th September.
- 12. Hrishi TS, GS Bhat presented a paper 'Stem cell therapy- Has the goal been achieved?' at ICDRO held at Goa from 14th -16th September.
- 13. Jasmine Malhotra, Pratibha PK presented a paper 'Enlightenment from within: PRGF' at ICDRO held at Goa from 14th -16th September.
- 14. Ayon Gupta, KM Bhat presented a paper 'Combination bone grafts' at ICDRO held at Goa from 14th -16th September.
- 15. Aditi Chopra. Betsy S Thomas presented a paper 'Aesthetics personified: a multidisciplinary approach' at the 5th National Conference of Indian Society of Prosthodontics- Restorative- Periodontics held at Mangalore from 24th -26th August.
- 16. Hrishi TS, GS Bhat presented a paper 'Vertical root fracture: a diagnostic-dilemma' at the 5th National conference of Indian society of Prosthodontics-Restorative-Periodontics held at Mangalore from 24th -26th August.
- 17. Upasana K, Pratibha PK presented a paper 'Humpty dumpty had a great fall' at the 5th National Conference of Indian Society of Prosthodontics-Restorative-Periodontics held at Mangalore from 24th -26th August.
- 18. Jothi MV presented a paper 'Aesthetic rehabilitation of a disfigured tooth using an interdisciplinary approach- a case report' at the 5th National conference of Indian society of Prosthodontics-Restorative-Periodontics held at Mangalore from 24th -26th August.



- 19. Santhosh Kumar presented a paper 'A new technique of modified inverted soft tissue technique for root coverage of the buccal gingival recession of the first premolar' at ISP Conference Periowave 37th National Annual Conference, held at Shimla Hills from 12th -14th October.
- 20. K Meena Anand presented a paper 'Erbium laser in bone ablation' at Joint MDASZ Melaka Manipal Medical College 4TH Dental conference and trade exhibition held at Melaka from 5th -7th October.
- 21. K Mahalinga Bhat presented a poster 'Evaluation of Anti-plaque and anti-inflammatory effects of mangiferin extract at Sofia Dental meeting, Bulgarian Scientific Dental Association (BSDA) held at Sofia, Bulgaria from 27th-30th September.
- 22. Jothi MV presented a paper 'Evaluation of GST and Ceruloplasmim levels in GCF and Gingival tissue as diagnostic markers for chronic periodontitis at Conference Dentistry in the light of Innovation, held at Sao Paulo Brazil from 29th 30th August.

- Betsy Thomas. Platelet Rich Fibrin in infrabony defects a clinical study (Oral Presentation). AEEDC, 5-7th February, Dubai 2013
- 2. Kanishk Gupta. Clinical efficacy of autologous PRF and nanohydroxyapatite in the treatment of intrabony defects. (Poster) AEEDC, 5-7th February, Dubai 2013. First prize awarded
- Rupali Agnihotri. Poster Idiopathic Orofacial Granulomatosis of the ginigva and labial mucosa- a case report. 3rd Annual Conference of Karnataka State Chapter of AOMSI, March 7-9th 2013
- 4. Rupali Agnihotri. Poster Antioxidant suppression in smokers with chronic periodontitis. 35th APDC conference, Kuala Lumpur, Malaysia, from 8th to 12th May 2013.
- 5. Jothi Varghese. Antimicrobial effect of anacardium occidentale leaf extract against periodontal pathogens. Presented on 28th June FDI/CDA/SLDA joint international conference&80th anniversary annual scientific sessions of Srilanka Dental association. June 27th to June 30th 2013
- 6. Meena Anand. Effect of Lemon grass oil as an antiplaque agent an in vitro study. Presented on 30th June. FDI/CDA/SLDA joint international conference&80th anniversary annual scientific sessions of Srilanka Dental association. June 27th to June 30th 2013. Poster – Commendable prize



7. Betsy S. Thomas. Poster presentation on the evaluation of the efficacy of titanium alloy implants coated by bioceramic apatite wollastonite and hydroxyapatite by pulsed laser deposition. AOS Conference, Perth, 23-26th October 2013.

2014

- 1. Jothi M Varghese. Poster presented Evaluation of antibacterial effect of Piper beetle (L.) mouth rinse on oral hygiene regimen 2nd International Scientific conference conducted by the faculty of Dentistry at the Jordon University of Science and Technology on May 7th-8th, 2014.
- 2. Rupali. Poster presentation "Impact of Smoking on periodontal health a clinic-biochemical correlation. FDI Conference 11th 14th September 2014, Delhi.
- Meena Anand. Esthetic soft tissue ridge augmentation a case report. 39th ISP National Conference 10-12th October 2014, B. M Birla Science and technology center, Jaipur
- 4. Santhosh Kumar, Dr. Kanishk Gupta Bone graft harvesting for periodontal surgery 67th IDC 21st to 23rd February 2014, Hitex, Hyderabad.
- 5. Kanishk Gupta, Dr. Santhosh Kumar Comparative evaluation of PRF and open flap debridement in intrabony defects
- 6. K. Mahalinga Bhat Guest lecture on "Host modulation" 13th ISP PG convention NITTE university campus, KSHEMA auditorium, Deralakatte, Mangalore, 9th March 2014.
- 7. Betsy S. Thomas The Scottish exhibition and conference centre, glasgow Advancing excellence in health care Thursday 19th and 20th June 2014
- Betsy S. Thomas. Analysis of dental implants with Bioceramics apatite wollastonite and hydroxyapatite coated pulsed laser deposition. 5th International CAMLOG congress 26th – 28th June 2014, Valencia, Spain.
- 9. Pratibha. Presented "probiotic administration in periodontal therapy" Oral Presentation Session at the 7th Instrumental symposium Sofia dental meeting, Bulgaria, 2-5th October 2014.

12. Placement record of the past students and the contribution of the department to aid student placement

| S. No | Year of | Name of the | Institution where employed |
|-------|------------|--------------------|----------------------------------|
| | completion | Postgraduate | |
| 1. | 2012 | Dr. Pooja M Kekare | Private practice and consultancy |



| 2. | 2012 | Dr. Tanya Jadhav | Private practice and consultancy |
|-----|------|--------------------|-------------------------------------|
| 3. | 2012 | Dr. Kanishk Gupta | Manipal College of Dental Sciences, |
| | | | Manipal |
| 4. | 2012 | Dr. Gowtham Suresh | Consultant and faculty at PGS |
| | | P | institute of Medical Sciences, |
| | | | Coimbatore |
| 5. | 2013 | Dr. Aditi chopra | Consultant |
| 6. | 2013 | Dr. Ruchi Raval | Working in KM Shah dental college, |
| | | | Vadodara, Gujarat |
| 7. | 2013 | Dr. Ryschia Naik | Consultant |
| 8. | 2013 | Dr. Kumari Upasana | Consultant |
| 9. | 2014 | Dr. Mihir Kulkarni | Consultant |
| 10. | 2014 | Dr. Gazal Gupta | Consultant |
| 11. | 2014 | Dr. Neha sachdeva | Consultant |
| 12. | 2014 | Dr. Hrishi | Consultant |
| 13. | 2014 | Dr. Janice Esteves | Consultant |
| 14. | 2014 | Dr. Swati gupta | Consultant |

13. Plan of action of the department for the next five years

- Addition of new surgical equipment Lasers
- Conduct of oral hygiene awareness programs in schools / Kasturba hospital
- To conduct workshop / CDE/ conference
- Thrust in research areas such as new regenerative materials
- Procuring dental implants for post graduates and staff



ORAL AND MAXILLOFACIAL SURGERY

1. Faculty profile - adequacy and competency of faculty:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name | Qualification | Designation | Experience in |
|----|---------------------|---------------|--------------------|---------------------------|
| No | | | | years (As of |
| | | | | 31 st December |
| | | | | 2014) |
| 1 | Dr. Abhay T. Kamath | MDS | Professor and Head | 14 |
| 2 | Dr. K. M. Cariappa | MDS | Professor | 31 |
| 3 | Dr. Manish Bhagania | MDS | Assoc. Prof. | 07 |
| 4 | Dr. Srikanth G | MDS | Reader | 05 |
| 5 | Dr. Chithra A | MDS | Asst. Prof. | 03 |
| 6 | Dr. Anand Deep | MDS | Asst. Prof. | 02 |
| | Shukla | | 71351. 1 101. | 02 |
| 7 | Dr. Adarsh Kudva M | MDS | Asst. Prof. | 01 |
| 8 | Dr. Swapnil Sharma | BDS | Lecturer | <01 |
| 9 | Dr. Meenakshi | BDS | Lecturer | <01 |
| | Prasad | | | VO1 |

| Category | Sanctioned (as per DCI) | Filled |
|----------------|-------------------------|--------|
| Teaching Staff | 04 | 07 |
| Lecturer | - | 02 |

2. Student Profile: According to programmes of study, gender, region etc.

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes:

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies,



Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner

- Change in examination pattern with inclusion of MCQ's and Short Answers
- Clinical Manual for Department of Oral & Maxillofacial Surgery
- Lesson Planning for each term
- OSCE being conducted both sessional and University Examination from the batch 2008-2009 onwards
- Visits of the Final year BDS students to Operation theater to watch live surgeries

4. Trends in the success rate and drop-out rate of students during the last two years

| Course | Pass Percentage | | | Dropout Rate | | |
|-----------|-----------------|---------|---------|--------------|---------|---------|
| | 2011-12 | 2012-13 | 2013-14 | 2011-12 | 2012-13 | 2013-14 |
| BDS | 100 | 100 | 100 | 0 | 0 | 0 |
| (IV year) | | | | | | |
| MDS | 100 | 100 | 100 | 0 | 0 | 0 |

5. Learning resources of the department like library, computers, laboratories and other such resources

| Description of resource | Quantity |
|--|----------|
| Textbooks in department library | 54 |
| Computer with internet connection with Scanner and printer | 02 |
| Video demonstration using computer | 01 |
| Television | 01 |
| Undergraduate section | 01 |
| Post graduate section | 01 |
| Pulse Oximeter | 02 |

6. Modern teaching methods practiced and use of ICT in teaching-learning

- Internet connectivity
- Latest editions of text books procured from Central Library
- Clinical club for postgraduate students
- Theory Classes on Power Point with LCD Projector
- Postings in other departments for postgraduate students
- Introduced lectures using power point presentations
- Model teaching



Hands on training for suturing and wiring

7. Participation of teachers in academic and personal counseling of students

- Setting up the question papers of Manipal University and other universities
- All faculty members involved for counseling of students with attendance shortage or poor performance
- An examiner for undergraduate and post-graduate examinations of other universities
- Member of inspection committee for Dental Council India (DCI)
- Member of research committee of the College and University
- Board of studies: Member

8. Details of faculty development programmes and teachers who benefited during the past two years:

| S. | Title of the programme | Attended by |
|----|---|-------------------|
| No | | |
| 1 | Workshop on "Composites-Color Sciences & Clinical | Dr. K.M. Cariappa |
| | considerations" held on 22 nd November 2012, at Manipal | |
| | College of Dental Sciences, Manipal | |
| 2 | CDE Programme on "Best Practices in Hospital care of | Dr. K.M. Cariappa |
| | Maxillofacial Patients" held on 2012 at Manipal College of | |
| | Dental Sciences, Mangalore, Manipal University, Mangalore | |
| 3 | CDE Programme on "Management of Biofilm in Periodontal | Dr. K.M. Cariappa |
| | Disease" held on September 15th 2012 at Manipal College of | Dr. Srikanth G |
| | Dental Sciences, Manipal | |
| 4 | Workshop on Head and Neck Onco-Surgery & Hands on | Dr. K.M. Cariappa |
| | Cadaveric Dissection Course held on 1 st to 3 rd June 2012 | |
| 5 | CME on /forensic Odontology "Tooth do Tell Tales" an aid in | Dr. K.M. Cariappa |
| | forensic investigation held on 3 rd March 2012 at Department of | |
| | Medical Education, KMC Mangalore | |
| 6 | AOCMF Advances Seminar on "Approaches to Skull Base" | Dr. K.M. Cariappa |
| | held on 17 – 19 February 2012, Ahmedabad, India | |
| 7 | CDE Programme on "Periodontal Medicine" held one | Dr. Srikanth G |
| | September 1 st 2012. MCODS, Manipal | |
| 8 | National Symposium on Cleft Lip and Palate held on 7 th ,8 th & | Dr. K.M. |



| | 9 th of September 2012, at Yenepoya University, Deralakatte, | Cariappa, | |
|---|---|------------|--------|
| | Mangalore, Karnataka | Dr. Manish | ı |
| | | Bhagania | |
| 9 | Basic Life Support Workshop at Medical Simulation Centre, | Dr. | Manish |
| | Manipal 29th and 30th November 2012 | Bhagania | |

| S. | Title of the programme | Attended by |
|----|---|--------------|
| No | | |
| 1 | CDE programme on "Patient Evaluation and Peri/Post- | Dr. Abhay T. |
| | operative care in OMFS" held at MCODS, Mangalore in March | Kamath |
| | 2013 | |

| S. | Title of the programme | Attended by |
|----|---|------------------|
| No | | |
| 1 | CPD Programme on "Current concepts and challenges in | Dr. Abhay T. |
| | Maxillofacial Infections" on 31st October ,2014 at MCODS | Kamath |
| | Mangalore | Dr. Chithra. A |
| | | Dr. Adarsh Kudva |
| 2 | AOCMF Introductory Seminar attended as Faculty National on | Dr. Abhay T. |
| | 14 November 2014 at Goa | Kamath |
| 3 | Dental implant competence program module 1 and module 2 | Dr. Manish |
| | held at SCIdent Implant training Institute, Mumbai from 11-13 | Bhagania |
| | July 2014 and 31 October to 2 November 2014 | |
| 4 | AOCMF Course attended on Principles in craniofacial fracture | Dr. G. Srikanth |
| | management from 17-19 October 2014 at New Delhi | |
| 5 | Internal Auditor Course on Integrated Management System | Dr. G. Srikanth |
| | (ISO 9001:2008 &ISO 14001:2004) | |
| 6 | CDE Programme on "Panfacial Trauma & ICU Protocol" held | Dr. Adarsh Kudva |
| | at A.B. Shetty memorial Institute of Dental Sciences, | |
| | Mangalore on 28 th June 2014 | |
| 7 | Workshop on Pedagogic and Personal Effectiveness" from 25 th | Dr. Adarsh Kudva |
| | to 28 th August,2014 Organized by Manipal centre for | |
| | Professional and Personal Development | |



| from dogbites in children hosted by MCODS Manipal from July 22-28,2014 9 Workshop on Botox and Fillers on 3 rd August 2014 during Facethetics 2014 at Bangalore 10 Preconference course on" Integrating Implants into your Practice from diagnosis to Placement" (Hands On) during 2 rd Interstate and 42 rd Karnataka State Dental conference from 27 th to 30 th November 2014 at Shayadri Institute of Technology, Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
|--|
| 9 Workshop on Botox and Fillers on 3 rd August 2014 during Facethetics 2014 at Bangalore 10 Preconference course on" Integrating Implants into your Practice from diagnosis to Placement" (Hands On) during 2 rd Dr. Anand Shuk Interstate and 42 rd Karnataka State Dental conference from 27 th to 30 th November 2014 at Shayadri Institute of Technology, Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| Facethetics 2014 at Bangalore 10 Preconference course on" Integrating Implants into your Practice from diagnosis to Placement" (Hands On) during 2 nd Dr. Anand Shuk Interstate and 42 nd Karnataka State Dental conference from 27 th to 30 th November 2014 at Shayadri Institute of Technology, Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| Preconference course on" Integrating Implants into your Practice from diagnosis to Placement" (Hands On) during 2 nd Dr. Anand Shuk Interstate and 42 nd Karnataka State Dental conference from 27 th to 30 th November 2014 at Shayadri Institute of Technology, Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| Practice from diagnosis to Placement" (Hands On) during 2 nd Interstate and 42 nd Karnataka State Dental conference from 27 th to 30 th November 2014 at Shayadri Institute of Technology, Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| Interstate and 42 nd Karnataka State Dental conference from 27 th to 30 th November 2014 at Shayadri Institute of Technology, Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| to 30 th November 2014 at Shayadri Institute of Technology, Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| Mangalore 11 Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| Two-Day hands on training programme held by Association for Advancement of Orofacial Research (Orthognathic Surgery) Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| Advancement of Orofacial Research (Orthognathic Surgery) 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| 12 Half-day workshop held by Health Sciences Library and Dr. Adarsh Kud |
| |
| |
| Department of Library and information science, Kasturba |
| Medical College, Manipal University, Manipal (How to get |
| published) |
| 13 CPD Programme held by Manipal College of Dental Sciences, Dr. Adarsh Kud |
| Manipal University (Diagnosis and Ethics-a straddle for oral |
| cancer care) |
| 14 AOCMF Introductory Seminar,28 Feb to March 1 st at Dr. Adarsh Kud |
| Mangalore |
| 15 CME held by Kasturba Medical College, Manipal University, Dr. Adarsh Kud |
| Manipal (Palliative Medicine |
| 16 CDE/CME Programme-2014 held by A.B Shetty Memorial Dr. Adarsh Kud |
| Institute of Dental Sciences (Panfacial Trauma & ICU Protocol) |

9. Participation of teachers in academic activities including teaching, consultancy and research:

Teaching:

• The entire faculty is actively involved in teaching UG and PG students

Consultancy:

- Emergency consultation in Trauma center and casualty for the head and neck region
- Surgical consultation and assistance with neurosurgery, ENT, Surgical oncology.



- 10. Collaborations with other departments and institutions at the national and international level and their outcome during the past two years
 - Nil
- 11. Priority areas for research and details of ongoing projects, important and noteworthy publications of the faculty during the past two years

Thrust areas of the department

- Maxillofacial Trauma
- Orthognathic Surgery
- Craniofacial Surgery
- Office based sedation.

Ongoing:

| Category | Number |
|-------------------------------|--------|
| Funded research projects | Nil |
| Non- Funded research projects | 06 |
| PhD research projects | Nil |
| PG research projects | 06 |
| UG research Projects | Nil |

Last 3 Years (2012-2014)

| | | | 2012 | 2013 | 2014 |
|--|--------------|---------------|------|------|------|
| Completed fu | ınded resear | ch projects | - | - | - |
| Completed non-funded research projects | | 02 | 03 | 03 | |
| Completed PhD research projects | | - | - | - | |
| Completed PG research projects | | 02 | 03 | 03 | |
| Completed UG research Projects | | - | - | - | |
| Publications | Internation | al | 04 | 01 | 06 |
| | National | | 06 | 02 | 01 |
| Books | | | - | - | - |
| Chapters in books | | - | - | - | |
| Conference | | International | - | 09 | 02 |
| presentations | | National | 12 | 14 | 13 |



Ongoing PG projects

| S. | Title | Name of the | Guide |
|----|---|---------------|-------------------|
| No | | Student | |
| 1. | Intraoccular pressure changes in | Dr. Shingala | Dr. Abhay. T. |
| | Zygomaticomaxillary complex fractures and | Hardik | Kamath |
| | orbital blowout fractures | | |
| 2. | Comparison between CBCT & digital OPG to | Dr. Kanika | Dr. Abhay. T. |
| | analyse the proximity of mandibular third molar | Nanda | Kamath |
| | to inferior alveolar canal | | Dr. Junaid Ahmed |
| 3. | Comparison of efficacy of oral diclofenac and | Dr. Surabhi | Dr. K.M. Cariappa |
| | oral Paracetamol in the control of post - | Chowdhery | Dr. Abhay T |
| | operative pain in minor oral surgical procedure | | Kamath |
| | – a split mouth study | | |
| 4. | Elective neck dissection in clinical T1/T2 | Dr. Amar | Dr. Abhay Kamath |
| | NOMO oral cancer and its effectiveness in | | Dr. Adarsh Kudva |
| | predicting occult metastasis | | Dr. Nirmala N Rao |
| 5. | Minimizing occupational hazard for oral& | Dr. Neelesh | Dr. K. M. |
| | maxillofacial surgery in the outpatient setting | Patel | Cariappa |
| | by application of Ergonomics | | |
| 6. | Assessment Eustachian of like functioning | Dr. Sreea Roy | Dr. Manish |
| | following surgical correction of oral submucous | | Bhagania |
| | fibrosis | | Mr. Kishen (Dept. |
| | | | of speech & |
| | | | Hearing) |

Completed PG research projects:

| S. | Title | Name of the | Guide |
|----|---|-------------|-----------|
| No | | student | |
| 1 | Comparing Hemodynamic status and Recovery | Dr. Anand | Dr. K. M. |
| | time during conscious sedation using two | Deep Shukla | Cariappa |
| | different drug combinations in minor Oral | | |
| | Surgery – A clinical Study | | |
| 2 | Anesthetic efficacy of two different | Dr. Jimish | Dr. K. M. |
| | concentrations of Ropivacaine with adrenaline | Desai | Cariappa |



| against 2% lignocaine with adrenaline | for |
|---|-----|
| inferior alveolar nerve block – a Clinical St | ıdy |

| S. | Title | Name of | Guide |
|----|--|-----------------------|-------------------------|
| No | | the student | |
| 1. | Effect of Alkalinisation of lignocaine on pain | Dr. Satpal | Dr. Abhay. T. |
| | during injection and onset of anesthesia during oral and maxillofacial surgical procedures | Singh | Kamath |
| 2. | Evaluating the Efficacy of Transdermal route of analgesic administration for pain control in minor oral surgery procedures | Dr. Amit | Dr. K.M. Cariappa |
| 3. | Comparative study of Lignocaine with Mepivacaine for onset and duration of action in local anesthesia used for minor oral and maxillofacial surgery | Dr. Ambika Pradeep | Dr. Abhay. T. Kamath |

2014

| S. | Title | Name of | Guide |
|----|---|-------------|-------------------|
| No | | the student | |
| 1. | Sternocleido mastoid muscle flap-Adding a new | Dr. Neha | Dr. Abhay. T. |
| | dimension in cases of ameloblastoma of the | | Kamath |
| | mandible | | |
| 2. | Current spectrum of microbiology in head and | Dr. | Dr. Abhay. T. |
| | neck infections | Anukool | Kamath |
| 3. | Intra procedural effect on mean arterial pressure | Dr. Prem | Dr. K.M. Cariappa |
| | and myocardial work during the extraction | | |
| | under local anesthesia; A monitored study | | |

Details of Publications:

2012

 Abhay T Kamath, Raghu Radhakrishnan, Manish Bhagania, Anand Mohan Tuberculous Osteomyelitis of the Mandible, Journal of Maxillofacial and Oral Surgery Ref: Ms. No. MAOS-D-12-00078R1, 2012



- Abhay T Kamath, Manish Kumar Bhagania, R. Balakrishna, Ganesh Kamath Sevagur, R. Amar. Ludwig's Angina in Pregnancy necessitating pre mature delivery, Journal of Maxillofacial and Oral Surgery Ref: Ms.No. MAOS – D-12-00091R1, 2012
- 3. Gaurav Mittal, Ramakanth Reddy Dubbudu, K.M. Cariappa. Three Dimensional Titanium Mini plates in oral and Maxillofacial Surgery: A Prospective Clinical Trial, Journal of Maxillofacial and Oral Surgery April- June) 2012, 11(2):152-159
- 4. B. Vidya, K.M. Cariappa, Abhay T Kamath. Current perspectives in intra operative airway management in maxillofacial trauma, Journal of Maxillofacial and Oral Surgery (April-June) 2012,11(2): 138-143
- Preethi Bhat, K.M. Cariappa. Inferior alveolar nerve deficits and recovery following surgical Removal of Impacted mandibular third molars, Journal of Maxillofacial and Oral Surgery July –Sept 2012, 11(3); 304-308
- 6. Abhay T Kamath, K.M. Cariappa, Manish Kumar Bhagania. Ostoid osteoma in the body of the mandible- A case report, Manipal Odontoscope, Official publication of Indian Dental Association, Manipal Branch (Volume 4) 2012
- Deepika Pai, Abhay T Kamath. Hemangioma associated with erupting permanent molar teeth – A case report, International Journal of Dental Clinics Volume 4 issue 1(Ref. NO: 547 2012 4.2/R8/8 INTJDC)
- 8. Santhosh Kumar, Arun Srinivas Urala, Abhay T Kamath, Priyanka Jayaswal, Ashima Valiathan. Unusual intraosseous transmigration of impacted tooth, Imaging Science in Dentistry Vol. 42, Number 1, March 2012,47-54
- Lokendra Gupta, I.N. Aparna, B. Dhanasekar, Abhay T Kamath, Lingeshwar D, Priyanka Agarwal. Fabrication of a Surgical Splint in an Emergency Situation. A Clinical Report, Journal of Prosthodontics: Implant, Esthetic, and Reconstructive Dentistry July 1, 2012
- 10. Subhalakshmi Sen, Abhay Kamath, Mukund Gupta, Raghu Radhakrishnan. A localised soft tissue and bone enlargement in an infant mandible, British Medical Journal Case report, June 2013-010291

 Abhay Taranath, Pai Deepika, Sham Bhat, Sharan Sargod. An analysis of genetic influence on salivary parameters and caries experience-by correlation of incidence of dental caries and salivary parameters International Journal of Dental research, 1(2) (2013) 39-44



- 2. Subhalakshmi Sen, Abhay Kamath, Mukund Gupta, Raghu Radhakrishnan. A localised soft tissue and bone enlargement in an infant mandible British Medical Journal – Case report, June 2013-010291
- 3. Parul Sah, Abhay Kamath, Chithra A, Raghu Radhakrishnan. Kimura's disease-An unusual presentation involving subcutaneous tissue, parotid gland and lymphnode. JOMFP vol.17, issue 3 Sep-Dec2013

- 1. Srikanth G, Abhay Kamath, Cariappa KM, Manish Bhagania, Hemodynamics during intravenous conscious sedation: an institutional experience. Egyptian Journal of Oral Maxillofacial Surgery 5: 1-3 Jan 2014
- 2. Abhay Taranath, Deepika Pai, Kalyan Chakravarthy. The role of casein phosphopeptide-amorphous calcium phosphate products in remineralisation of incipient enamel lesions and its substantivity. J Exp Integr Med 2014; 4(1): 67-70 ISSN: 1309-4572
- 3. Abhay Kamath, Manish Bhagania, Deepika Pai, Satpal Singh, Amit and Ambika Pradeep. Challenges in Rehabilitation of long standing ankylosis of temporo mandibular joint-A case report of a 65 years old lady. Acta Medica Scientia 01 (01) 2014.
- 4. Dr. Subhalakshmi, Dr. Mary Mathew, Dr. Raghu A R, Dr. Abhay T Kamath. An Infiltrative Squamous cell carcinoma of the sinonasal tract –A report of a rare case. International Journal of Advanced Research (2014), Vol. 2, Issue 5, 792-798.
- 5. Dr. Manish Kumar Bhagania, Dr. Srikanth G. Dr. Neha Sharma, Dr. Abhay Taranath Kamath, Dr. Anukool Choube, Dr. Prem Sasikumar. Intraoperative Radiography for Assessment of clearance during surgical resection of jaws, International Journal of Scientific Research Nov. 2014, Page No: 344
- 6. Abhay Taranath kamath, Srikanth gadicherla, Neha sharma, Anand Deep shukla, Satpal Singh gill. Oculocardiac reflex in a pediatric orbital floor fracture: a case report, Hellenic archives of Oral & Maxillofacial Surgery (2014)59-64
- 7. Chithra A, K. M. Cariappa Abhay Taranath Kamath, Adarsh Kudva. Role of Rapid Tetanus Antibody test in accident and emergency department-comparative study Journal Maxillofacial Oral Surgery Oct. 14, 2014

Details of Conference presentations:



- Dr. Abhay T Kamath delivered a Guest lecture: "Antibiotic prophylaxis in oral surgery
 "during 16th Mid-term conference and 3rd Post Graduate Convention of AOMSI held
 at Mount Abu, Rajasthan from 14th to 16th June 2012
- Dr. Abhay T Kamath delivered a Guest lecture:" Aesthetic and facial assessment in Pan Facial Trauma: Fourth Dimension" in 37th National conference of Association of Oral and Maxillofacial Surgeons of India, held at Hyderabad on 29th, 30th Nov and 1st Dec 2012
- 3. Dr. Abhay T Kamath delivered a Guest lecture:" New Horizon-Recent Advances in Oral &Maxillofacial Surgery"2nd Annual Conference of Karnataka State chapter of Association of Oral and Maxillofacial Surgery held at Bagalkot on 17th& 18th Feb. 2012
- 4. Dr. Manish Bhagania presented a paper" Intraoperative radiographic assessment of jaw tumors" in 37th National conference of Association of Oral and Maxillofacial Surgeons of India, held at Hyderabad on 29th, 30th Nov and 1st Dec 2012
- 5. Dr. Anand Mohan presented a paper titled "SCM flap in mandibular resection for Ameoloblastoma" in 16th Mid-Term Conference and 3rd Post graduate convention of AOMSI held at Mount Abu, Rajasthan from 14th to 16th June 2012.
- 6. Dr. Mukund Gupta presented a paper titled "Care and cure: Pediatric maxillofacial injuries" in 16th Mid-term conference and 3rd Post Graduate Convention of AOMSI at Mount Abu, Rajasthan from 14th to 16th June 2012
- 7. Dr. Ambika Pradeep presented poster "Orbital floor fracture in pediatric population 37th National conference of Association of Oral and Maxillofacial Surgeons of India, held at Hyderabad on 29th, 30th Nov and 1st Dec 2012
- Dr. Satpal Singh presented a poster Palatal fractures management:- Comparative study National conference of Association of Oral and Maxillofacial Surgeons of India , held at Hyderabad on 29th, 30th Nov and 1st Dec 2012
- 9. Dr. Amit presented a paper" A Ludwig's angina in pregnancy: handling two lives in one go-" Case report 16th Mid-Term Conference and 3rd Post graduate convention of AOMSI held at Mount Abu, Rajasthan from 14th to 16th June 2012.
- 10. Dr. Ambika Pradeep presented poster "Sternocleidomastoid muscle flap: changing face of reconstruction at "2nd Annual Conference of Karnataka State chapter of Association of Oral and Maxillofacial Surgery held at Bagalkot on 17th& 18th Feb. 2012
- 11. Dr. Satpal Singh presented a poster "Osteosynthesis: past, present and future at "2nd Annual Conference of Karnataka State chapter of Association of Oral and Maxillofacial Surgery held at Bagalkot on 17th & 18th Feb. 2012



12. Dr. Amit presented a poster "Bone cement: A novel modality for craniofacial skeleton contour deformity at "2nd Annual Conference of Karnataka State chapter of Association of Oral and Maxillofacial Surgery held at Bagalkot on 17th& 18th Feb. 2012.

- 1. Dr. Abhay T. Kamath attended the 35th Asia Pacific Dental Congress held at Kuala Lumpur, Malaysia from the 8th to the 12th of May 2013 and won the 3rd Prize for the scientific poster "Role of collagen in the management of Oral Submucous fibrosis.
- 2. Dr. K.M. Cariappa attended IOFOS Congress at Florence, Italy 29th August 2013 to 31st August 2013 read a paper titled "Orthognathic Surgery – A good guise".
- 3. Dr. Manish Bhagania attended 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013 presented paper titled "Klippel Feil Syndrome snatches the smile of a Child".
- 4. Dr. Chithra attended 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013 titled" Atypical Cephalometry for Ethnic Malaysian corrected by Orthognathic Surgery".
- 5. Dr. Chithra A attended COSMOS 2013 &presented a poster titled "Glandular Odontogenic cyst of posterior maxilla – A Rare Entity held on 1st & 2nd February 2013 at Yenepoya University.
- 6. Dr. Ananddeep Shukla presented a poster titled "Glandular Odontogenic cyst of posterior maxilla – A Rare Entity at COSMOS 2013 held on 1st & 2nd February 2013 at Yenepoya University.
- 7. Dr. Ananddeep Shukla attended 38th National Conference Association of Oral and Maxillofacial Surgeons of India &presented a paper titled Atypical Cephalometry for an ethnic Malaysian treated by orthognathic surgery at Bhubaneswar, Odisha, India from 21st to 23rd November, 2013.
- 8. Dr. Ambika Pradeep presented Paper in 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013 titled "Orbital injuries".
- 9. Dr. Ambika Pradeep attended 3rd Annual Conference of Karnataka State Chapter of AOMSI "Renaissance Revival in Oral and Maxillofacial Surgery" &presented a poster titled "Distraction osteogenesis in hemifacial microsomia" held from March 7-9, 2013 at Manipal College of Dental Sciences, Manipal University, Manipal.
- 10. Dr. Satpal Singh presented a paper in 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013 titled "Distraction Osteogenesis – An Era in Maxillofacial Surgery.



- 11. Dr. Satpal Singh attended 3rd Annual Conference of Karnataka State Chapter of AOMSI "Renaissance Revival in Oral and Maxillofacial Surgery" & presented a poster on "Post traumatic deformity corrections" held from March 7-9, 2013 at Manipal College of Dental Sciences, Manipal University, Manipal.
- 12. Dr. Amit attended 38th National Conference Association of Oral and Maxillofacial Surgeons of India presented a Poster at Bhubaneswar, Odisha, India from 21st to 23rd November, 2013.
- 13. Dr. Amit attended 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013presented a paper titled "Intricacies in Management of Mandibular Condylar Fractures – Retrospective Study".
- 14. Dr. Amit attended 3rd Annual Conference of Karnataka State Chapter of AOMSI "Renaissance: Revival in Oral and Maxillofacial Surgery" & presented a poster on "Distraction osteogenesis as a primary treatment of TMJ ankylosis" held from March 7-9, 2013 at Manipal College of Dental Sciences, Manipal University, Manipal.
- 15. Dr. Neha Sharma attended 38th National Conference Association of Oral and Maxillofacial Surgeons of India& presented a Poster "Transmasseteric anterior parotid approach for management of condylar fracture" at Bhubaneswar, Odisha, India from 21st to 23rd November, 2013.
- 16. Dr. Neha Sharma presented a poster in 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013 titled "Sternocleidomastoid flap: Adding a new dimension to facial Esthetics".
- 17. Dr. Neha Sharma attended 3rd Annual Conference of Karnataka State Chapter of AOMSI "Renaissance: Revival in Oral and Maxillofacial Surgery" presented a poster on "Surgical options in ameloblastoma" held from March 7-9, 2013.
- 18. Dr. Anukool Chube attended 38th National Conference Association of Oral and Maxillofacial Surgeons of India presented a Poster "Sterno cleidomastoid muscle flap: Adding a new dimension to facial esthetics" at Bhubaneswar, Odisha, India from 21st to 23rd November, 2013.
- 19. Dr. Anukool Chube presented a Poster in 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013 titled "Infantile cortical hyperostosis".
- 20. Dr. Anukool Chube attended 3rd Annual Conference of Karnataka State Chapter of AOMSI "Renaissance: Revival in Oral and Maxillofacial Surgery" &presented a poster on "Mucormycosis of maxilla" held from March 7-9, 2013.



- 21. Dr. Prem Sasikumar attended 38th National Conference Association of Oral and Maxillofacial Surgeons of India & presented a Poster "Distraction osteogenesis in triad patients" at Bhubaneswar, Odisha, India from 21st to 23rd November, 2013.
- 22. Dr. Prem Sasikumar attended 1st Asian Oral and Maxillofacial Surgery PG Convention held at Mangalore from 29th to 31st August 2013presented a poster titled "Distraction Osteogenesis in a Triad Patient
- 23. Dr. Prem Sasikumar attended 3rd Annual Conference of Karnataka State Chapter of AOMSI "Renaissance: Revival in Oral and Maxillofacial Surgery" presented a poster on "Surgical options in bimaxillary protrusion" held from March 7-9, Feb, 2013.

- Dr. Abhay. T. Kamath delivered Key note lecture at KLE Vishwanath Katti Institute of Dental Sciences, Belgaum on 27th,28 and 29th March 2014
- 2. Dr. Abhay T Kamath 18th National Mid-Term Conference at APMOSI and PG Convention to be held at Trissur, Kerala from May 23-25 2014.
- 3. Dr. Abhay T. Kamath Delivering a Guest Lecture on "Evaluation of Orthognathic case- A Surgeon's perspective on 14th and 15th June 2014.
- 4. Dr. Abhay T Kamath delivered Key note lecture on AO Instrumentation AOCMF Introductory Seminar at Mangalore from 28 Feb to 1st March 2014
- 5. Dr. K. M. Cariappa delivered lecture at 1st Global Manipal Alumni Health, Science &Technology Convention from 7th to 8th August 2014 at The Royale Chulan Kaula Lumpur
- 6. Dr. K. M. Cariappa presented paper at the 8th in house conference at Kota Kinabalu Specialist Centre on 28th and 29th October 2014
- 7. Dr. Manish Bhagania presented scientific paper titled "Scan the Canal....Save the nerve" at 2nd Interstate & 42nd Karnataka state Dental conference held on 28th,29th,&30th November 2014 at Sahyadri Institute of Technology, Mangalore
- Dr. Chithra. A presented scientific paper titled "Uncommon presentation of common tumour" at 2nd Interstate & 42nd Karnataka state Dental conference held on 28th, 29th & 30th November 2014 at Sahyadri Institute of Technology, Mangalore
- 9. Dr. Chithra. A presented a poster during Facethetics 2014 held at Bangalore on 1st and 2nd August 2014
- 10. Dr. Adarsh Kudva presented poster titled Management of Oral Submucous fibrosis-Manipal Experience at 14th Annual conference of the Foundation for Head and Neck Oncology



- 11. Dr. Ananddeep Shukla presented scientific paper titled "All roads into Rome-Our experience in the management of Ameloblastoma" at 2nd Interstate & 42nd Karnataka state Dental conference held on 28th,29th,&30th November 2014 at Sahyadri Institute of Technology, Mangalore
- 12. Dr. Srikanth G presented scientific paper titled Spectrum of oral and maxillofacial infections at 67th Indian dental conference on 21st -23rd February 2014 Hitex Hyderabad.
- 13. Dr. Srikanth G presented scientific paper titled Palatal fractures at AOMSICON 2014 39th national conference on 14th -16th November 2014 at Goa.
- 14. Dr. Hardik presented poster on Management of Cyst in Maxillofacial region -Different treatment modalities, AOMSICON 2014 at 39th national conference on 14th -16th November 2014 at Goa.
- 15. Dr. Surbhi Chowdhery presented poster on Tuberculous Osteomylitis -case report in AOMSICON 2014 at 39th national conference on 14th -16th November 2014 at Goa.

12. Placement record of the past students and the contribution of the department to aid student placements

| S. | Year of passing | Name of the | Institution where employed |
|----|-----------------|------------------|-------------------------------------|
| No | postgraduate | student | |
| | course | | |
| 1 | April 2012 | Dr. Anand Deep | Manipal College of Dental Sciences, |
| | | Shukla | Manipal |
| 2 | April 2012 | Dr. Jemish Desai | Indian Army Major |
| 3 | April 2013 | Dr. Anand Mohan | Sri Sai Dental College, Hyderabad |
| 4 | April 2013 | Dr. Mukund Gupta | Safdurjung Hospital, Delhi |
| 5 | April 2014 | Dr. Amit Bamboo | Jaipur Dental College |
| 6 | April 2014 | Dr. Satpal Singh | Private Practice, Dubai |
| 7 | April 2014 | Dr. Ambika | Junior Dentist, New Zealand |
| | | Pradeep | |

13. Plan of action of the department for the next five years

• In the next five years we plan to take help from senior experts from India and abroad, plan to operate on complex cases of craniofacial trauma and dentofacial deformities.

EVALUATIVE REPORT OF THE DEPARTMENT



- After the Annual State Conference is over, we plan to organize CDE at regular intervals to focus on key areas as applicable for the benefit of residents and delegates.
- There is a plan to visit national and foreign universities to acquire higher fellowships in the field of Distraction Osteogenesis and Esthetic surgeries



PROSTHODONTICS AND CROWN AND BRIDGE

1. Faculty profile-adequacy and competency of faculty

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name of faculty | Qualification | Designation | Number of years of teaching |
|-----|-------------------|---------------|--------------|--|
| No | member | | | experience |
| | | | | (As of 31 st December 2014) |
| 1. | Dr. Dhanasekar B | MDS | Professor | 12 |
| | | | and Head | |
| 2. | Dr. Aparna IN | MDS | Professor | 16 |
| 3. | Dr. Veena Hegde | MDS | Professor | 18 |
| 4. | Dr. Pradeep S | MDS | Addl. Prof. | 11 |
| 5. | Dr. Nayana Prabhu | MDS | Assoc. Prof. | 08 |
| 6. | Dr. Vinu Thomas | MDS | Assoc. Prof. | 08 |
| | George | | ASSOC. FIOI. | |
| 7. | Dr. Lokendra K | MDS | Asst. Prof. | 03 |
| | Gupta | | Asst. 1 101. | |
| 8. | Dr. Jyoti Hassija | MDS | Asst. Prof. | 03 |
| 9. | Dr. Uday Shankar | BDS | Lecturer | 01 |
| 10. | Dr. Apurv Jhawar | BDS | Lecturer | 01 |
| 11. | Dr. Eshan Verma | BDS | Lecturer | 01 |
| 12. | Dr. Vasudha | BDS | Lecturer | <01 |
| 13. | Dr. Vani Verma | BDS | Lecturer | 01 |

| Category | Sanctioned (as per DCI) | Filled |
|----------------|-------------------------|--------|
| Teaching staff | 08 | 08 |
| Lecturer | 04 | 05 |

2. Student profile entry level competencies, socioeconomic status, language proficiency etc.

Refer Annexure 01. Student Profile for details



3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner.

- Change in examination pattern
- Objective test assessment included
- Amendment in curriculum of BDS (course reverted back to four years with one year compulsory rotating internship implemented from August 2011).

4. Trends in the success and drop-out rates of students during the past two years

BDS Second Year

| Year of | Total no. of | Total no. of students | Percentage of | Dropouts |
|-------------|--------------|-----------------------|---------------|----------|
| examination | students | passed | pass | |
| | appeared | | | |
| June 2012 | 96 | 94 | 98 | 0 |
| Nov 2012 | 05 | 04 | 80 | 0 |
| June 2013 | 93 | 93 | 100 | 0 |
| Nov 2013 | 06 | 06 | 100 | 0 |
| June 2014 | 97 | 96 | 99 | 0 |
| Nov 2014 | 02 | 02 | 100 | 0 |

BDS final year

| Year of | Total no. of | Total no. of | Percentage of | Dropouts |
|-------------|--------------|-----------------|---------------|----------|
| examination | students | students passed | pass | |
| | appeared | | | |
| Jan 2012 | 11 | 08 | 72.73 | 0 |
| June 2012 | 06 | 05 | 83.3 | 0 |
| Aug 2012 | 87 | 86 | 98.9 | 0 |
| Dec 2012 | 08 | 07 | 87.5 | 0 |
| July 2013 | 86 | 82 | 97 | 0 |
| Dec 2013 | 08 | 06 | 75 | 0 |
| July 2014 | 93 | 88 | 95 | 0 |
| Dec 2014 | 12 | 10 | 92 | 0 |



MDS

| Year of | Total no. of | Total no. of students | Percentage of | Dropouts |
|-------------|--------------|-----------------------|---------------|----------|
| examination | students | passed | pass | |
| | appeared | | | |
| April 2012 | 04 | 04 | 100 | 0 |
| April 2013 | 04 | 04 | 100 | 0 |
| April 2014 | 03 | 03 | 100 | 0 |

Dental mechanic course

| Year of | Total no. of | Total no. of students | Percentage of | Dropouts |
|-------------|--------------|-----------------------|---------------|----------|
| examination | students | passed | pass | |
| | appeared | | | |
| 2012 | NIL | NIL | NIL | NIL |
| 2013 | NIL | NIL | NIL | NIL |
| 2014 | NIL | NIL | NIL | NIL |

Certificate course in Implantology

| Year of examination | Total no. of students appeared | Total no. of students passed | Percentage of pass | Dropouts |
|---------------------|--------------------------------------|------------------------------|--------------------|----------|
| August 2012 | 20 | 20 | 100 | 0 |
| August 2013 | 19 | 19 | 100 | 0 |
| August 2014 | 15 | 15 | 100 | 0 |

5. Learning resources of the departments - library, computers, laboratories and other resources

| Description of resource | Quantity |
|--|----------|
| Textbooks of Complete dentures | 18 |
| Textbooks of Partial dentures | 30 |
| Textbooks of Maxillofacial prosthetics | 31 |
| Manuals | 06 |
| Computer with internet facility | 01 |
| IPS Empress ceramic unit | 02 |
| Furnace burnout | 04 |



| Multimat NTX press ceramic unit furnace | 01 |
|---|----|
| Degussa Gold polishing unit | 01 |
| Degussa multi vacumat | 01 |
| Casting machine | 06 |
| Omec die cutting machine | 02 |
| Valplast flexible denture machine | 01 |
| Sirio hydraulic bench press | 03 |
| Orion pressure molding machine | 02 |
| Hanau wide vue articulators | 10 |
| Hot air oven | 01 |
| Pindex die system | 07 |
| Sprue cutting machine | 01 |
| Sand blasting machine | 03 |
| Pressure pot | 03 |
| Electro Polishing unit | 01 |
| Micro Surveyor | 02 |
| Spindle grinder | 01 |

6. Modern teaching methods practiced and use of ICT in teaching-learning

BDS, DMC and PG Diploma

- Use of LC Display (power point)
- Small group teaching
- Tutorials
- Assignments
- Revision tests

MDS

- Seminars
- Chair side discussion in clinics
- Case discussion
- Exams preparatory discussions
- CDE lecture and hands on programmes
- Inter-department clinical club

7. Participation of teachers in academic and personal counseling of students



Faculty members are involved in the academic counseling (poor performance or poor attendance) of the students. The counseling is conducted at the end of each periodic examination.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

2012

| S. | Details of the program | Attended by |
|----|---|----------------------------|
| No | | |
| 1. | "Full Mouth Rehabilitation" A Compromised | Dr. Aparna I.N., Dr. Veena |
| | Approach. Held on the 2^{nd} Feb 2012 at Attavar Campus | Hegde, DR. Pradeep S, Dr. |
| | MCODS Mangalore. | Nayana Prabhu, Dr. Vinu |
| | | Thomas, Dr. Mahesh, Dr. |
| | | Gagan Khanna, Dr. |
| | | Manawar, Dr. Lokendra |
| | | Gupta, Dr. Jyoti, |
| 2. | "Periodontal Medicine". Held on the 1st Sep 2012 at | Dr. Aparna I.N., Dr. Veena |
| | MCODS Manipal. | Hegde, Dr. Pradeep S, Dr. |
| | | Nayana Prabhu, Dr. Vinu |
| | | Thomas, Dr. Gagan |
| | | Khanna, Dr. Lokendra |
| | | Gupta |
| 3. | 360 ⁰ in Complete Denture held on 22 nd October 2012 at | Dr. Aparna I.N., Dr. Veena |
| | MCODS Manipal. | Hegde, Dr. Pradeep S, Dr. |
| | | Nayana Prabhu, Dr. Vinu |
| | | Thomas, Dr. Manawar Dr. |
| | | Lokendra Gupta, |

| S. | Details of the program | Attended by |
|----|---|-----------------|
| No | | |
| 1. | CDE programme on Surgical site development in | Dr. Veena Hegde |
| | compromised mandibular and maxillary Ridges and | |
| | soft tissue for intra oral Endosteal implants for | |
| | rehabilitating partially dentate/edentulous patients by | |



| | osseointegrated supported prosthesis conducted by A. | |
|----|---|---------------------------|
| | B. Shetty Memorial Institute of Dental Sciences, | |
| | Nitte University Mangalore on 27 th and 28 th March | |
| | 2013 | |
| 2. | Towards success in research-need for best practice | Dr. Dhanasekar B, Dr. |
| | organized by MCODS Manipal on 6 th July 2013 | Aparna I.N, Dr. Veena |
| | | Hegde,, Prabhu, Dr. Vinu |
| | | Thomas, Dr. Pradeep, Dr. |
| | | Lokendra Gupta, Dr. Jyoti |
| | | Hassija |
| 3. | CDE program on "Implant – Solutions" at Yenepoya | Dr. Vinu Thomas |
| | University Campus, Deralakatte, Mangalore on 17 th | |
| | August, 2013. | |
| | | |
| 4. | Emerging Trends in Dental Education by Dr. K. | Dr. Dhanasekar B, Dr. |
| | Ramnarayan, Dr. Sudhakar Nayak and Dr. Ciraj | Aparna I.N., Dr. Veena |
| | organized by MCPD Manipal on 17 th Sep 2013 | Hegde,, Prabhu, Dr. Vinu |
| | | Thomas, Dr. Pradeep, Dr. |
| | | Lokendra Gupta, Dr. Jyoti |
| | | Hassija |
| 5. | Spectrum'13 by Dr. Arvind Shenoy and Dr. | Dr. Dhanasekar B, Dr. |
| | Kundabala shenoy organized by MCODS Manipal on | Aparna IN, Dr. Veena |
| | 24 th Oct 2013 | Hegde, Prabhu, Dr. Vinu |
| | | Thomas, Dr. Pradeep, Dr. |
| | | Lokendra Gupta, Dr. Jyoti |
| | | Hassija |
| 6. | Excellence In Dental Research by Dr. Arun and Dr. | Dr. Lokendra Gupta |
| | Joseph Thomas organized by MCODS Manipal | |
| | on16 th Nov 2013 | |
| 7. | Workshop on Electronic communication organized | Dr. Veena Hegde |
| | by Manipal Centre for Professional and Personal | |
| | Development(MCPD) on 28 th December 2013 | |
| | | |

| S. | Details of the program | Attended by |
|----|------------------------|-------------|



| No | | |
|----|--|---------------------------|
| 1. | Workshop on "Teachers Effectiveness" on 25 th January | Dr. Dhanasekar B, Dr. |
| | 2014 organized by Manipal Center for Professional and | Aparna I.N., Prabhu, |
| | Personal Development | |
| | | |
| 2. | Mini workshop for Post graduate Dissertation Guides | Dr. Dhanasekar B, Dr. |
| | organized by Manipal unit of UNESCO Chair in | Aparna I.N, Dr. Vinu |
| | Bioethics on 27 th June, 2014 at Kasturba Medical | Thomas, Dr. Veena Hegde |
| | College, Manipal University, Manipal. | |
| | | |
| 3. | "Intellectual property rights" organized by MCPD | Dr. Dhanasekar B, Dr. |
| | Manipal on 14 th August 2014. | Aparna I.N., Dr. Veena |
| | | Hegde,, Prabhu, Dr. Vinu |
| | | Thomas, Dr. Pradeep, Dr. |
| | | Lokendra Gupta, Dr. Jyoti |
| | | Hassija |
| 4. | Workshop on Persuasive Communication organized by | Dr. Dhanasekar B, Dr. |
| | MCPD, Manipal University on 28th & 29th November | Aparna |
| | 2014 | |
| | | |
| 5. | Diagnosis and Ethics-a Straddle for oral cancer care by | Dr. Lokendra Gupta |
| | Dr. Nirmala N Rao and Dr. Vidya Sagar organized by | |
| | MCODS Manipal on 13 th December 2014 | |
| 6. | Work shop at the International Conference on | Dr. Dhanasekar B, Dr. |
| | Computational methods in Engineering and Health | Aparna I.N, Prabhu, |
| | Sciences organized by the Directorate of Research, | |
| | Manipal University, Manipal during 15-16 December, | |
| | 2014 | |
| | | |
| | I. | |

9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research

Teaching

All the faculty members are involved in the undergraduate and postgraduate teaching. In addition, faculty members of the department are involved in the following academic activities



- In planning and execution of lesson plan, lecture schedule and delivery of lecture contents
- Demonstration and supervision of practical/clinical work of the students
- Members of the Board of studies
- Preparation of question papers and curriculum design.
- As members in various committees set up by the college
- Involved in Quality management system and environmental management system

Consultancy

 Department of prosthodontics is involved in consultancy with various medical as well as dental departments.

Research by faculty

| S | Title | Faculty Involved |
|-----|---|------------------|
| No. | | |
| 1. | Performance evaluation of a novel dental implant system | Dr. Aparna IN |

10. Collaboration with other departments/institutions, at the state, national and international levels, and their outcome during the past two years.

- Dr. Donny Philip Varughese completed a project titled 'Evaluation of the effect of an antimicrobial agent on the physical properties of an irreversible hydrocolloid impression material- an in vitro study' under the guidance of Dr. Veena Hegde in collaboration with Department of Dental Materials MCODS, Manipal.
- 2. Dr. Gurkaran Preet Singh completed a project titled 'In vitro evaluation of the influence of surface treatment of artificial tooth on the adhesive bond strength to a commercially available denture base resin' under the guidance of Dr. Veena Hegde in collaboration with Department of dental materials, MCODS, Manipal and School of life sciences, Manipal.
- 3. Dr. Puneeth Hegde completed a project titled 'Comparison of stress patterns in edentulous mandibular bone around; two-implant retained four-implant retained overdenture and all-on-four concept. A three dimensional finite element analysis' under the guidance of Dr. Dhanasekar B in collaboration with Department of Aeronautical Engineering, MIT, Manipal.
- 4. Dr. Lingeshwar D completed a project titled 'Quantification of residual monomer in commonly available heat cured denture base products using high performance liquid



chromatography- an in vitro study' under the guidance of Dr. Aparna IN in collaboration with Department of Quality Assurance, MCOPS, Manipal.

2013

- 1. Dr. Manav Kalra completed a project titled, An in vitro study to evaluate the dimensional accuracy of autoclavable and non-autoclavable polyvinylsiloxane impression materials subjected to disinfection and steam autoclave sterilization procedures under the guidance of Dr. Dhanasekar B in collaboration with Department of mechanical and manufacturing engineering, MIT, Manipal
- 2. Dr. Tapan Tirumala Teja completed a project titled, "A comparative evaluation of metal to ceramic bond strength of Ni-Cr and Co-Cr alloys subjected to repeated castings A in vitro study" under the guidance of Dr. Pradeep in collaboration with Department of community Dentistry and Department of Dental Materials, MCODS, Manipal
- 3. Dr. Karthik Sivaraman completed a project titled, Effect of time and disinfection on dimensional accuracy of vinylsiloxanether impression material under the guidance of Dr. Aparna in collaboration with department of Microbiology , KMC, Manipal
- 4. Dr. Lakhveer Kaur completed a project titled, Evaluation of the antibacterial properties and flexural strength of heat cure acrylic resin modified with tetrapod like zinc oxide whiskers under the guidance of Dr. Veena Hegde in collaboration with Department of oral pathology MCODS, Manipal and microbiology and Department of Microbiology, KMC, Manipal

- 1. Dr. Shraddha Doshi completed a project titled 'Evaluation of the effect of food simulating liquids and artificial saliva on the mechanical properties of provisional restorative materials' restorations' under the guidance of Dr. Veena Hegde in collaboration with Department of Dental Materials, MCODS, Manipal and Department of mechanical engineering and Department of Biochemistry, KMC, Manipal.
- 2. Dr. Meghna Chauhan completed a project titled 'Comparative study of bond strength of commercially available temporary soft liners to different types of denture base resinsan in vitro study' under the guidance of Dr. Aparna I N in collaboration with Department of Dental Materials , MCODS, Manipal and School of Life sciences, MU, Manipal.
- 3. Dr. Archana Harsha completed a project titled 'Comparative evaluation of conventional heat cure and commercially available hypoallergenic denture base resins for color stability- an in vitro study under the guidance of Dr. Aparna I N in collaboration with department of Printing and Media engineering, MIT, Manipal



4. Dr. Sangeetha Nair completed a project titled 'Evaluation of the bond strength between ceramic to Ni-C and Co-Cr alloys after repeated firing cycles- an in vitro study' under the guidance of Dr. Aparna I N in collaboration with Department of Dental Materials, MCODS, Manipal

Ongoing projects

- 1. Dr. Tanuka Dutta a study titled An in vitro study to evaluate the marginal fit of castings with varying sprue diameter and using ring and ringless casting technique' under the guidance of Dr. Vinu Thomas
- 2. Dr. Sonam Gupta a study titled Comparative evaluation of different types of impression trays and elastomeric impression materials on the accuracy of open tray implant impression an in vitro study under the guidance of Dr. Aparna IN
- 3. Dr. Akanksha Sachdeva a study title 'Effect of conventional and microwave glazing on surface roughness, color and flexural strength of metal ceramic systems an in vitro study under the guidance of Dr. Nayana Prabhu
- 4. Dr. Pankaj Kulkarni, a study 'Comparative evaluation of the influence of different taper on retention of metal crowns using two resin cements under the guidance of Dr. Veena Hegde.
- 5. Dr. Shashwat Jain a study 'Evaluation of dimensional accuracy of an implant cast obtained using diverse splinting materials in an open tray multiple implant impression in vitro study 'under the guidance of Dr. Dhanasekar B.
- 6. Dr. Neha Chugh a study 'To compare the flexural properties of three commercially available heat cure denture base resins after long term water immersion an in vitro study' under the guidance of Dr. Pradeep S.
- 7. Dr. Anasua Debnath a study 'Comparative evaluation of certain surface characteristics and color stability of two different types of ceramics when surface treated with bleaching agents, fluorides and different types of beverages an in vitro study' under the guidance of Dr. Pradeep S.
- 8. Dr. Sushma Yadav a study 'Evaluation of mechanical properties of polymethyl methacrylate denture base resin incorporated with acrylamide 'under the guidance of Dr. Aparna IN.
- 9. Dr. Parampreet Kohli a study Comparative evaluation of efficacy of gingival retraction using chemical and mechanical methods: an in vivo study' under the guidance of Dr. Veena.



- 10. Dr. Saumya Kapoor a study 'Comparison of the effect of different surface treatments on the bond strength of three different cements with nickel chromium metal alloy: an in-vitro study' under the guidance of Dr. Veena.
- 11. Dr. Archit Choudhry a study Evaluation of the effect of surface treatment on bond strength of sift denture lining materials to an acrylic resin denture base 'under the guidance of Dr. Dhanasekar B.
- 12. Dr. Varun Yarramaneni a study 'An in-vitro comparative evaluation of flexural strength of two commercially available interim restorative resins impregnated with silane treated and untreated E- glass fibres' under the guidance of Dr Veena Hegde.
- 11. Priority areas for research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas of research

- Dental Implants
- Maxillofacial prosthetics
- Dental ceramics
- Polymeric materials for prosthodontics applications

Ongoing

| Category | Number |
|------------------------------|--------|
| Funded research projects | - |
| Non-funded research projects | - |
| PhD research projects | 01 |
| PG research projects | 12 |
| UG research projects | - |

Last three years (2012-2014)

| | 2014 | 2013 | 2012 |
|--|------|------|------|
| Completed funded research projects | - | - | - |
| Completed non-funded research projects | - | - | - |
| Completed PhD research projects | - | - | - |
| Completed PG research projects | 04 | 04 | 04 |
| Completed UG research projects | - | - | |
| Publications International | 07 | 06 | 02 |



| | National | 07 | 03 | 06 |
|----------------|---------------|----|----|----|
| Books | | - | - | - |
| Chapters in bo | ooks | - | - | - |
| Conference | International | 01 | 02 | 02 |
| presentations | National | 07 | 06 | 08 |

Ongoing PG Projects

| S. | Title | Name of the | Guide |
|-----|--|-----------------|---------------|
| No. | | student | |
| 1 | An in vitro study to evaluate the marginal fit | Dr Tanuka Dutta | Dr Vinu |
| | of castings with varying sprue diameter and | | Thomas |
| | using ring and ringless casting technique. | | |
| | | | |
| 2 | Comparative evaluation of different types of | Dr Sonam Gupta | Dr Aparna IN |
| | impression trays and elastomeric impression | | |
| | materials on the accuracy of open tray implant | | |
| | impression – an in vitro study | | |
| 3 | Effect of conventional and microwave glazing | Dr Akanksha | Dr Nayana |
| | on surface roughness, color and flexural | Sachdeva | |
| | strength of metal ceramic systems - an in | | |
| | vitro study | | |
| 4 | Comparative evaluation of the influence of | Dr Pankaj | Dr Veena |
| | different taper on retention of metal crowns | Kulkarni | Hegde |
| | using two resin cements | | |
| 5 | Evaluation of dimensional accuracy of an | Dr. Shashwat | Dr Dhanasekar |
| | implant cast obtained using diverse splinting | Jain | |
| | materials in an open tray multiple implant | | |
| | impression - in vitro study | | |
| 6 | To compare the flexural properties of three | Dr. Neha Chugh | Dr Pradeep |
| | commercially available heat cure denture base | | |
| | resins after long term water immersion an in | | |
| | vitro study | | |
| 7 | Comparative evaluation of certain surface | Dr. Anasua | Dr Pradeep S |
| | characteristics and color stability of two | Debnath | |
| | different types of ceramics when surface | | |
| | | | |



| | treated with bleaching agents, fluorides and different types of beverages – an in vitro study | | |
|----|---|---------------------|---------------|
| 8 | Evaluation of mechanical properties of polymethyl methacrylate denture base resin | Dr. Sushma Yadav | Dr Aparna IN |
| | incorporated with acrylamide. | Tadav | |
| 9 | Comparative evaluation of efficacy of | Dr Parampreet | Dr Veena |
| | gingival retraction using chemical and | Kohli | Hedge |
| | mechanical methods: an in vivo study | | |
| 10 | Comparison of the effect of different surface | Dr Saumya | Dr Nayana |
| | treatments on the bond strength of three | Kapoor | |
| | different cements with nickel chromium metal | | |
| | alloy: an in-vitro study | | |
| 11 | Evaluation of the effect of surface treatment | Dr Archit | Dr Dhanasekar |
| | on bond strength of sift denture lining | Choudhry | |
| | materials to an acrylic resin denture base. | | |
| 12 | An in-vitro comparative evaluation of flexural | Dr Varun | Dr Vinu |
| | strength of two commercially available | Yarramaneni | Thomas |
| | interim restorative resins impregnated with | | |
| | silane treated and untreated E- glass fibres | | |

Completed PG projects

| S. | Title | Name of the | Guide |
|-----|---|-----------------|------------|
| No. | | student | |
| 1 | Evaluation of the effect of an antimicrobial agent | Dr Donny Philip | Dr. Veena |
| | on the physical properties of an irreversible | Varughese | Hegde |
| | hydrocolloid impression material- an in vitro study | | |
| 2 | In vitro evaluation of the influence of surface | Dr Gurkaran | Dr Veena |
| | treatment of artificial tooth on the adhesive bond | Preet Singh | Hegde |
| | strength to a commercially available denture base | | |
| | resin | | |
| 3 | Comparison of stress patterns in edentulous | Dr Puneeth | Dr |
| | mandibular bone around; two-implant retained | Hegde | Dhanasekar |
| | four-implant retained overdenture and all-on-four | | В |



| | concept. A three dimensional finite element analysis | | |
|---|--|---------------|-----------|
| 4 | Quantification of residual monomer in commonly | Dr Lingeshwar | Dr Aparna |
| | available heat cured denture base products using | D | IN |
| | high performance liquid chromatography- an in | | |
| | vitro study | | |

| S. | Title | Name of the | Guide |
|-----|---|--|------------|
| No. | | student | |
| 1 | An in vitro study to evaluate the dimensional | Dr Manav Kalra | Dr |
| | accuracy of autoclavable and non-autoclavable | | Dhanasekar |
| | polyvinylsiloxane impression materials subjected | | |
| | to disinfection and steam autoclave sterilization | | |
| | procedures. | | |
| 2 | A comparative evaluation of metal to ceramic bond | Dr Tapan | Dr Pradeep |
| | strength of Ni-Cr and Co-Cr alloys subjected to | Tirumala Teja | |
| | repeated castings – A in vitro study. | | |
| 3 | Effect of time and disinfection on dimensional | Dr Karthik | Dr Aparna |
| | accuracy of vinylsiloxanether impression material. | racy of vinylsiloxanether impression material. Sivaraman | |
| 4 | Evaluation of the antibacterial properties and | Dr Lakhveer | Dr Veena |
| | flexural strength of heat cure acrylic resin modified | Kaur | Hedge |
| | with tetrapod like zinc oxide whiskers. | | |

| S. | Title | Name of the | Guide |
|-----|---|-------------|------------|
| No. | | student | |
| 1 | Evaluation of the effect of food simulating liquids | Dr Shraddha | Dr. Veena |
| | and artificial saliva on the mechanical properties of | Doshi | Hegde |
| | provisional restorative materials' | | |
| 2 | Comparative study of bond strength of | Dr Meghna | Dr. Aparna |
| | commercially available temporary soft liners to | Chauhan | IN |
| | different types of denture base resins- an in vitro | | |
| | study | | |
| 3 | Comparative evaluation of conventional heat cure | Dr Archana | Dr. |



| | and commercially available hypoallergenic denture | Harsha | Pradeep S |
|---|---|--------------|-----------|
| | base resins for color stability- an in vitro study | | |
| 4 | Evaluation of the bond strength between ceramic to | Dr Sangeetha | Dr. Veena |
| | Ni-C and Co-Cr alloys after repeated firing cycles- | Nair | Hegde |
| | an in vitro study' | | |

Details of Publications

2012

- 1. Ahmad M, Dhanasekar B, Aparna IN. A Comparative Evaluation of Linear Dimensional Accuracy of the dies obtained using three conceptually different die systems in the fabrication of implant prosthesis An in vitro study. International Journal of Oral Implantology and clinical Research. 2012; 3(1) 17-23.
- 2. Aparna IN, Dhanasekar B, Lingeshwar D, Gupta L. Implant crest module: A review of biomechanical consideration. Indian J Dent Res. 2012; 23:257-63.
- 3. N Sridhar, Dr. Jyoti Hassija. Bruxism in children and adolescent patients. Manipal odontoscope 2012;4:33-37
- 4. S Manjunath, Dr, Shankar M, Dr. Pradeep Kumar, Dr. Vrinda Bhat, Dr. Nayana Prabhu, Asha Kamath, Raghvendra Babu. Palatal rugae patterns among the Indians at Manipal, India. Journal of pharmaceutical and biomedical sciences. 2012, Vol 20, issue 20, pages 1 to 5
- Suraj R Suvarna, Dr. Pradeep Sherigar, Dr. Ankit Mehrotra, Dr. Bhaskar Agarwal Dr. Srishti Agarwal, Allergy to methyl methacrylate: A review. Clinical Dentistry, Mumbai September 2 0 1 2 14 – 18
- Tanya, Dr. Jothi Varghese, Dr. Jyoti Hassija. A pre prosthetic soft tissue augmentation using a simplified technique. J of interdisciplinary dentistry2012 vol 2 (2) pages 138-140
- 7. Vinu Thomas George, Dr. Kamalakanth Shenoy. A comparative in vitro study on the physical properties of reused nickel chromium alloy (Verasoft ®) using different proportions to fresh alloy (Verasoft ®). Journal of Indian Prosthodontic Society. 2012; :54-66
- Vinu Thomas George, Veena Hegde. Distraction osteogenesis-An overview of principles and its applications. Indian journal of dentistry 2012 Oct. to Dec vol 3 issue 4 pages 222 to 225



- Gupta L, Aparna IN, Dhanasekar B, Kamath AT, Lingeshwar D, Agarwal P. Fabrication of a surgical splint in an emergency situation: a clinical report. J Prosthodont. 2013 Apr;22(3):223-5
- 2. Khanna G, VTT Teja, Pradeep S and Gupta L. An Approach towards Successfully Restoring a Partially Resected Dentulous Mandible. J Orofac Res 2013;3(3)221-224.
- 3. Singh GP, Sherrigar P, Khanna. Prosthetic conformer as a pressure device in the prophylactic management of postsurgical auricular keloid formation- J Prosthodont. 2013 Jan; 22(1):81-4.
- 4. Kollu S Hegde V & Chakravarthy K, .Efficacy of chlorhexidine in reduction of microbial contamination in commercially available alginate materials—In-vitro study. Global Journal of Medical Research, 2013 13(2).
- 5. Mundathaje, M., & Hegde, V. Effect of infection control aids on polymerization inhibition of polyvinyl siloxane impression materials—An in vitro study. Indian Journal of Dentistry, 2013 4(1), 18-21.
- Goyal MK, Goyal S, Hegde V, Balkrishana D, Narayana AI. Recreating an esthetically and functionally acceptable dentition: A multidisciplinary approach Int J Periodontics Restorative Dent. 2013 Jul-Aug;33(4):527-32
- 7. Alok Dwivedi, Suraj.R. Suvarna, Anurag Gupta, Anupam Singh, Pradeep Sherigar, Shweta Bali. Photoelastic Evaluation and Comparison of Stress Transmission Characteristics of Two Different Overdenture Retainer Designs under Dynamic Loading Conditions –An In Vitro Study. Bhavnagar University's Journal of Dentistry January 2013; 3(1): 1-7.
- 8. Amrita Pandita, Teerthesh Jain, Naveen S Yadav, SMA Feroz, Pradeep, Akankasha Diwed. Evaluation and Comparison of Dimensional Accuracy of Newly Introduced Elastomeric Impression Material using 3D Laser Scanners: An in vitro. The Journal of Contemporary Dental Practice, March-April 2013; 14(2):265-268.
- 9. V. Jothi, N.V. Ballad, S. Pradeep Esthetic rehabilitation of a disfigured Tooth using an interdisciplinary approach. International journal of clinical dentistry November 2013:6(4) 1-6

 Lokendra Gupta, I. N. Aparna, B. Dhanasekar, Nayana Prabhu, Nirjalla Malla, Priyanka Agarwal. Three-Dimensional Orientation of Iris in an Ocular Prosthesis Using a Customized Scale. J Prosthodont 23 (2014), 252-255.



- Anish Goyal, Aparna I N, Dhanasekhar B, Pradeep S, Nayana Prabhu. Aiding phonetics by adding palatal rugae in a balanced complete denture- A case report. Manipal Odontoscope, vol 6,2014, Page no 32-34.
- 3. Alex Leo Sequeira, Aparna I N, Dhanasekhar B, Pradeep S, Nayana Prabhu. Posterior tooth replacement with a Resin bonded bridge- A case report. Manipal Odontoscope, vol 6, 2014, Page no 35-38.
- 4. Akanksha Sachdeva, Pankaj Kulkarni, Aparna I N, Dhanasekhar B, Pradeep S, Nayana Prabhu. Digital Dentures-An Emerging paradigm in Prosthodontics. Manipal Odontoscope, vol 6, 2014, Page no70-75.
- 5. Jyothi H. Healthy lifestyle for healthy gums: Dentistry, Vol 4(6),2014:1-8
- Jyothi H. An in vitro study on effect of Ceramic thickness and multiple firings on color of metal ceramic restorations. Journal of Indian prosthodontic society. DOI 10.1007/s13191-014-0370-2
- 7. Gupta L, Aparna I, Balakrishnan D, Deenadayalan L, Hegde P, Agarwal P¹. Cranioplasty with custom made alloplastic prosthetic implant: A case report. World J Clin Cases. 2014 Sep 16;2(9):482-7
- 8. Sharma S, Hegde V Comparative evaluation of antifungal activity of Melaleuca oil and Flucanazole when incorporated in tissue conditioner: An in vitro study. J Prosthodont. 2014 Jul;23(5):367-73
- 9. Hegde, V, Rodrigues S.J., & Saldanha. S. Redefining the treatment modalities for denture stomatitis-A review. International Journal of Research in Dentistry, 2014 4(2), 8-27.
- 10. Kalahasti D, Hegde V, Kosaraju K, Baliga S, Reddy NK, Sujatha B. Evaluation of Efficacy of Microwave Irradiation in Disinfecting Dental Gypsum Cast: An Ex Vivo Study. J Indian Prosthodont Soc. 2014 Dec;14(4):381-92.
- 11. Goyal S, Goyal MK, Balkrishanan D, Hegde V, Narayana AI. The posterior palatal seal: Its rationale and importance: An overview Eur J Prosthodont 2014;2:41-7
- 12. Hegde V, Acharya SR, Singh GP. Validity of crown to root ratio as a prognostic tool in clinical practice. Journal of Evolution of Medical and Dental Sciences 2014; Vol. 3, Issue 74, December 29; Page: 15589-15599
- 13. Mallika S Shetty, Rekha P. Shenoy, Vinu Thomas George. Role of self-care practices and denture maintenance in oral health. Journal of orofacial research. 2014 Jan-Mar; 4(1): 7 11
- 14. Hegde P, Shetty S and Gupta L. Role and Importance of Forensic Odontology in Identification. International Interdisciplinary Journal of Scientific Research 2014;1(3):64-69.



Details of Conference Presentations

- Dr. Aparna IN attended and presented a poster at 65 Indian Dental Conference on 9th to 12th February 2012 IDA- Pepsodent poster competition conducted by Maharashtra Dental Council, IDA Mumbai Branch
- 2. Dr. Nayana Prabhu attended and presented a poster at 65 Indian Dental Conference on 9th to 12th February 2012 IDA- Pepsodent poster competition conducted by Maharashtra Dental Council, IDA Mumbai Branch.
- 3. Dr. Jyoti Hassija attended 8th Biennial Conference, Pediatric Dentistry Association of Asia, Bali-Indonesia, May 25th and 26th, 2012.
- 4. Dr. Manawar Ahmad attended and presented paper title "An Innovative Technique to Fabricate Palatal lift prosthesis for a patient with cleft lip and palate associated with multilated dentition – A case report at FDI Conference on 28th August 2012 to 1st September 2012 Hong Kong.
- 5. Dr. Aparna I.N. chaired the session of paper presentation at 40th Indian Prosthodontics Society Conference and 8th Biennial meeting of Asian academy of prosthodontics Dec. 5th to 9th 2012, Chennai, India.
- 6. Dr. Pradeep S. Presented paper titled "Shortened Dental Arch" at 40th Indian Prosthodontics Society Conference and 8th Biennial meeting of Asian academy of prosthodontics Dec. 5th to 9th 2012, Chennai, India.
- 7. Dr. Nayana Prabhu presented paper Titled "The Anterior reference point A Dilemma" at 40th Indian Prosthodontics Society Conference and 8th Biennial meeting of Asian academy of prosthodontics Dec. 5th to 9th 2012, Chennai, India.
- 8. Dr. Vinu George Thomas Presented paper titled "Significance of Psychological Assessment is the successful rehabilitation of maxillofacial trauma cases" at 40th Indian Prosthodontics Society Conference and 8th Biennial meeting of Asian academy of prosthodontics Dec. 5th to 9th 2012, Chennai, India.
- 9. Dr. Gagan Khanna presented paper 'Hobo's Twin stage technique revisited Augmented stability at an implant supported over denture Case report' at 40th Indian Prosthodontics Society Conference and 8th Biennial meeting of Asian academy of prosthodontics Dec. 5th to 9th 2012, Chennai, India.
- 10. Dr. Lokendra Gupta presented paper Titled "Sculpting the Cranium using custom made Alloplastic Implant at 40th Indian Prosthodontics Society Conference and 8th Biennial meeting of Asian academy of prosthodontics Dec. 5th to 9th 2012, Chennai, India.



- Dr. Veena Hegde attended and chaired the session of paper presentation at 41st Indian Prosthodontic Society National Conference held at Ahmedabad, Gujarat from 13th -17thNovember 2013
- 2. Dr. Jyothi Hass did a paper presentation at 41st KSDC IDA conference held at Coorg from 27th-297th November 2013
- 3. Dr. Nayana Prabhu presented a poster at the FDI/CDA/SLDA Joint International Conference held in Colombo, Srilanka on 28-30 June 2013
- 4. Dr. Dhanasekar B, Chaired the scientific session at the 2nd Karnataka Prosthodontic Society Conference held on September 18th -20th, 2014 at JSS Dental College and Hospital, Mysore.
- 5. Dr. Aparna I N, Chaired the scientific session at the 2nd Karnataka Prosthodontic Society Conference held on September 18th -20th, 2014 at JSS Dental College and Hospital, Mysore.
- Dr. Nayana Prabhu, Chaired the scientific session at the 2nd Karnataka Prosthodontic Society Conference held on September 18th -20th, 2014 at JSS Dental College and Hospital, Mysore.
- 7. Dr. Pradeep S, Chaired the scientific session at the 2nd Karnataka Prosthodontic Society Conference held on September 18th -20th, 2014 at JSS Dental College and Hospital, Mysore.
- 8. Dr Vinu Thomas presented a paper at 41st Indian Prosthodontic Society Conference at Gujarat University Convention and Exhibition Centre, Ahmedabad on November 14th to 17th, 2013.

- 1. Dr Vinu Thomas attended 67^{th} Indian dental conference held at Hitex, Hyderabad from $21\text{-}23^{rd}$ February 2014.
- 2. Dr Pradeep S presented a paper on Occlusal prematurities no more a challenge at IDC Hyderabad, 21-22 Feb, 2014
- 3. Dr Dhanasekar B, delivered a guest lecture at 4th Borneo Dental Congress, MDA Eastern Zone, Kuching, Sarawak, East Malaysia, 22-23rd February 2014
- 4. Dr Jyothi Hassija did a poster presentation at the 36th Asia Pacific Dental Congress held at Dubai world trade center, Dubai between17-19th June 2014.
- 5. Dr. Veena Hegde attended and chaired the scientific session at 21st Indian Society of Oral Implantologist Conference held at Chennai from 2nd-4th October 2014



- 6. Dr Lokendra Gupta presented a poster on Quintessence Aesthetic with Acrylic Gum Veneer- A case Series. 2nd Inter State & 42nd Karnataka State Dental Conference held in Mangalore from 28th to 30th November 2014.
- 7. Dr Vinu Thomas presented a paper at 42nd Indian Prosthodontic Society Conference at Park Plaza Convention Centre, Chandigarh on November 6th to 8th, 2014.
- 8. Dr Aparna presented a paper on Effect of Grid Size on Fatigue Calculations of A Dental Implant at the International Conference on Computational methods in Engineering and Health Sciences organized by the Directorate of Research, Manipal University, Manipal during 15-16 December, 2014

12. Placement record of the past students and the contribution of the department to aid student placement

| S. No | Year of | Name of the | Institution where employed |
|-------|------------|-----------------------|--------------------------------|
| | completion | Postgraduate | |
| | | | |
| 1. | 2012 | Dr. Donny Phillip | Vassan Dental Care, Kerala |
| 2. | 2012 | Dr. Puneeth Hegde | Manipal College of Dental |
| | | | Sciences, Mangalore |
| 3. | 2012 | Dr. Lingeshwar D | Madha Dental College, Chennai |
| 4. | 2012 | Dr. Gurukaran | Working in Max Hospital, |
| | | | Chandigarh, Punjab |
| 5. | 2013 | Dr. Manav Kalra | Kalra Dental Clinic, New Delhi |
| 6. | 2013 | Dr. Tapan | Pursuing DDS is USA |
| 0. | 2013 | Vallabhaneni | Tursung DDS is USA |
| 7 | 2012 | | |
| 7. | 2013 | Dr. Karthik Sivaraman | FOD, Melaka Manipal Medical |
| | | | College, Manipal |
| 8. | 2013 | Dr. Lakhveer Kaur | Army, Jammu and Kashmir |
| 9. | 2014 | Dr. Shraddha Doshi | Pursuing DDS is USA |
| 10 | 2014 | D 14 1 G1 1 | |
| 10. | 2014 | Dr. Meghna Chauhan | Malla Reddy College, Hyderabad |
| 11. | 2014 | Dr. Sangeeta Nair | Kamineni Institute of dental |
| | | | sciences, Hyderabad |

13. Plan of action of the department for the next five years

Introduce problem based learning in the undergraduate curriculum

EVALUATIVE REPORT OF THE DEPARTMENT



- Organize denture camps for the under privileged in rural areas
- Encourage collaborative research
- Encourage publication in high impact journals
- Encourage faculty to register for PhD
- Develop indigenous biomaterials for prosthodontic practice
- Establish multisystem implantology programme



PEDODONTICS AND PREVENTIVE DENTISTRY

1. Faculty profile - adequacy and competency of faculty:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name | Qualification | Designation | Experience in |
|-----|---------------------|---------------|---------------|----------------------|
| No. | | | | years (As of 31st |
| | | | | December 2014) |
| 1 | Dr. Rashmi Nayak | MDS | Professor and | 14 |
| | | | Head | |
| 2 | Dr. Sridhar. N | MDS | Assoc. Prof. | 07 |
| 3 | Dr. Deepika Pai | MDS | Assoc. Prof. | 07 |
| 4 | Dr. Sumit Gaur | MDS | Assoc. Prof. | 05 |
| 5 | Dr. Saurabh Kumar | MDS | Reader | 04 |
| 6 | Dr. Mirza Aumir Beg | MDS | Lecturer | <01 |
| 7 | Dr. Mariam Sophia | BDS | Lecturer | 01 |
| 8 | Dr. Jakka Sabareesh | BDS | Lecturer | 01 |

| Category | Sanctioned (as per DCI) | Filled |
|----------------|-------------------------|--------|
| Teaching staff | 04 | 06 |
| Lecturer | - | 02 |

2. Student profile - entry level competencies, socioeconomic status, language proficiency etc.

Refer annexure 01, student profile for details

3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner.



- Change in examination pattern with inclusion of MCQs and short answers
- Pedodontics and Preventive Dentistry has been moved to Part-II BDS curriculum according to DCI amendment August 2011.
- OSCE is included in clinical examination pattern.
- Table clinic presentations were introduced for undergraduate students and all the faculty members are actively involved in mentoring the same.

4. Trends in the success and drop-out rates of students during the past two years:

| Course | Pass Percentage | | Drop outs | | | |
|--------|-----------------|------|-----------|------|------|------|
| Course | 2012 | 2013 | 2014 | 2012 | 2013 | 2014 |
| BDS | 100 | 100 | 98 | 0 | 0 | 0 |
| MDS | 100 | 100 | 100 | 0 | 0 | 0 |

5. Learning resources of the departments - library, computers, laboratories and other resources:

| Description of resource | Quantity |
|---|----------|
| Textbooks | 30 |
| Journals | 33 |
| Dissertations | 135 |
| Library dissertations | 30 |
| Computer with internet connection | 01 |
| Special child care room | 01 |
| Root ZX | 01 |
| Conscious Sedation Unit | 01 |
| RVG | 01 |
| Intraoral camera | 01 |
| Velopex (automatic X-ray processor) | 01 |
| Diagnodent | 01 |
| Counseling room | 01 |
| PG seminar room | 01 |
| PG laboratory | 01 |
| Televisions for patient education and behavior | 04 |
| management | |
| School based dental clinics under school dental | 02 |
| health programme | |



| Anesthesia work station | 01 |
|--------------------------------|----|
| New dental chairs | 03 |
| LCD Projector | 01 |
| Manual X ray developer machine | 01 |

6. Modern teaching methods practiced and use of ICT in teaching – learning:

- Introduced problem oriented learning have developed material for same in the department
- Table clinic presentations for undergraduate students
- Video demonstrations of clinical procedures for undergraduate students
- Chair side demonstration of clinical procedures on models or extracted teeth for undergraduate students
- Model exercises for undergraduate students during clinical hours

7. Participation of teachers in academic and personal counseling of students

All the faculty involvement in counseling for attendance and academic performance

8. Details of faculty development programs and teachers who have been benefited during the past two years

| S. | Title of the program and details (Date and place) | Attended by |
|----|---|------------------|
| No | | |
| 1 | Attended CPD program on 'Predictable Esthetic | Dr. Rashmi Nayak |
| | Restorations' organized by the Department of Conservative | Dr. Sridhar N. |
| | Dentistry and Endodontics, Manipal College of Dental | Dr. Deepika Pai |
| | Sciences, Manipal on 1 st March 2012. | Dr. Sumit Gaur |
| 2 | Attended CDE program and conducted hands on course on | Dr. N. Sridhar |
| | 30April 2012 at Babu Banarasi Das College of Dental | |
| | Sciences, Lucknow. | |
| 3 | Attended CDE program on 'Anterior Esthetics with | Dr. Deepika Pai |
| | composites' conducted by KVG Dental College and | |
| | Hospital, Sullia on 16 July 2012. | |
| 4 | Attended CDE program on 'Periodontal Medicine' | Dr. Sumit Gaur |
| | conducted by Department of Periodontology on first | Dr. N. Sridhar |
| | September 2012. | |



| 5 | Attended CPD program on 'Bridging the gap between oral Dr. Saurabh Kuma | r |
|---|---|---|
| | and systemic health' organized by Department of | |
| | Periodontology, Manipal College of Dental Sciences, | |
| | Mangalore on 14 July 2012. | |

| 1 | Attended CPD program SPECTRUM'13 held on the 24th | Dr. Rashmi Nayak |
|---|---|-------------------|
| | October 2013, at MCODS, Manipal. | Dr. Deepika Pai |
| | | Dr. Saurabh Kumar |
| 2 | Attended CPD on "Emerging trends in dental education" at | Dr. Rashmi Nayak |
| | MCPD: 17th September 2013 at Manipal. | Dr. Saurabh Kumar |
| 3 | Work shop on curriculum designing at MCPD Manipal on | Dr. Rashmi Nayak |
| | 9 th July 2013 | |
| 4 | Attended CPD: Towards success in research- Need for best | Dr. Rashmi Nayak |
| | practices at MCODS Manipal 6th July 2013 | Dr. N. Sridhar |
| | | Dr. Deepika Pai |
| | | Dr. Sumit Gaur |
| 5 | Attended CDE program "Excellence in dental research" | Dr. Rashmi Nayak |
| | held on 16th November 2013 at MCODS Manipal. | |
| 6 | CDE on patient evaluation and peripost- operative care in | Dr. Deepika Pai |
| | OMFS on 30 March 2013 at Yenepoya Dental College | |
| | Mangalore | |

| 1 | Attended work shop on "Systematic review and meta- | Dr. Rashmi Nayak |
|---|--|------------------|
| | analysis", on 22 nd and 23 rd August 2014 at MCODS | |
| | Manipal. | |
| 2 | Attended CPD: PedoApp 2014 on 30th July 2014 at | Dr. Sridar N |
| | Mangalore | |
| 3 | Work shop on "Effective electronic communication" 4th | Dr. Rashmi Nayak |
| | January 2014 at MCPD Manipal. | |
| 4 | Attended CDE program "Moulding smiles & changing | Dr. Rashmi Nayak |
| | lives" held on 13th & 14th August 2014 at MCODS, | Dr. N. Sridhar |
| | Manipal. | Dr. Deepika Pai |
| | | Dr. Sumit Gaur |
| | | |



| | | Dr.Saurabh Kumar |
|---|---|------------------|
| | | Dr. Aumir beg |
| | | |
| | | |
| | | |
| 5 | "Updates in adhesive industry, composite, cements galore" | Dr.Saurabh Kumar |
| | on 3 rd march 2014 at MCODS, Manipal | |

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

Teaching:

- The entire faculty is actively involved in teaching UG and PG students.
- QP preparation
- Members of Board studies
- Internal/ External Examiners
- Members of counsel of college committee

Consultancy:

All faculty members are involved in performing treatment for clinical cases

Research by faculty:

2012

| S. | Title | Faculty Involved |
|-----|--|------------------|
| No. | | |
| 1 | Enamel remineralisation after acid etching and air abrasion. | Dr. N Sridhar |
| 2 | Effects of passive smoking on oral health of children. | Dr. Sumit Gaur |

2013

| S. | Title | Faculty Involved |
|-----|--|------------------|
| No. | | |
| 1 | The role of casein phosphopeptide-amorphous calcium | Dr. Deepika Pai |
| | phosphate products in remineralisation of incipient enamel | |
| | lesions and it's substantivity | |

| S. | Title | Faculty Involved |
|----|-------|------------------|
| | | |



| No. | | |
|-----|---|-------------------|
| 1 | Co-investigator in the institutional Colgate - Palmolive | Dr. Rashmi Nayak |
| | funded research project titled: To evaluate the clinical | |
| | efficacy of a desensitizing toothpaste containing 8% | |
| | arginine, calcium carbonate and 1450 ppm fluoride as | |
| | sodium monofluorophosphate on dentin hypersensitivity | |
| | relief immediately after a single professional application | |
| | and after 2-weeks of product use.: A hypersensitivity study. | |
| 2 | Prevention of maxillofacial injuries resulting from dog bites | Dr. Deepika Pai |
| | in school going children | |
| 3 | Learning preferences of dental students using VARK | Dr. Saurabh Kumar |
| | questionnaire | |

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

- "The Effect of three commercially available chewing gums on the calcium and phosphorus uptake and Acidogenic potential of dental plaque" in collaboration with Department of Biochemistry conducted by Dr. Priya Jariwala under the guidance of Dr. Rashmi Nayak.
- Antibacterial efficacy of MTAD and 1% sodium hypochlorite in primary and permanent teeth: A comparative evaluation incollaboration with Department of Microbiology by Dr. Suryakanth Kumar under the guidance of Dr. Rashmi Nayak
- Effect of resin infilteration on artificial caries lesions –an invitro evaluation of resin penetration and microhardness in collaboration withNITK surathkal and MIT Manipal by Dr. Deepesh Prajapathi under the guidance of Dr. Rashmi Nayak
- Effect of probiotic lozenges on plaque pH and salivary and plaque levels of Streptococcuus mutans in collaboration with department of microbiology by Dr. Munira Baldiwala under the guidance of Dr. Rashmi Nayak
- "A comparative analysis of the remineralization potential of three commercially available remineralizing agents on white spot lesions: an in vitro study" in association with biochemistry conducted by Dr. Pujan under the guidance of Dr. Rashmi Nayak
- "Morphological changes in dentin and its influence on tensile bond strength of composites with three different methods of tooth preparation: an in vitro study" in collaboration with Department of Dental materials conducted by Dr. Praveen under the guidance of Dr. Rashmi Nayak.



- "Comparison of Aloe vera gel, HBSS and Milk on periodontal ligament cell survival and clonogenic capacity" in collaboration with Manipal Life Sciences Centre conducted by Dr. Vipin Bhaskar under the guidance of Dr. Rashmi Nayak & Dr. N. Sridhar
- "Evaluation of flexural strength of glass ionomer cement reinforced with zinc oxide whiskers- An in vitro study" in association with Dental materials conducted by Dr. Priyanka under the guidance of Dr. Rashmi Nayak and Dr. Nagaraja Upadhya.
- "A comparative evaluation of hydroxyl and calcium ion diffusion from calcium hydroxide based intracanal medicaments in primary teeth An in vitro study" conducted by Dr. B. Sneha in collaboration with Department of Environmental Sciences, Jawaharlal Nehru University, Hyderabad under the guidance of Dr. Rashmi Nayak

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Priority areas for research:

- Minimal intervention dentistry
- Remineralisation of incipient enamel lesions
- Pediatric endodontics
- Effect of passive smoking on children

Ongoing:

| Category | Number |
|------------------------------|--------|
| Funded research projects | 02 |
| Non-funded research projects | 04 |
| PhD research projects | 0 |
| PG research projects | 06 |
| UG research projects | 0 |

Last 3 years (2012-2014):

| | 2012 | 2013 | 2014 |
|--|------|------|------|
| Completed funded research projects | - | - | 02 |
| Completed non-funded research projects | 02 | 03 | 03 |
| Completed PhD research projects | - | - | |
| Completed PG research projects | 02 | 02 | 03 |



| Completed UG research projects | | - | - | - |
|--------------------------------|---------------|----|----|----|
| Publications | International | 06 | 02 | 09 |
| 1 donedions | National | 03 | 01 | 05 |
| Books | | - | - | - |
| Chapters in bo | ooks | - | - | - |
| Conference | International | 03 | 04 | 04 |
| presentations | National | 01 | 05 | 06 |

Ongoing PG projects:

| S. | Title | Name of the | Guide |
|-----|---|--------------|-------------|
| No. | | student | |
| 1. | Effect of acid concentration and etch time on | Dr. Keertana | Dr. Rashmi |
| | morphology and tensile bond strength of primary | Satish | Nayak |
| | dentin- An in vitro study | | |
| 2. | Antimicrobial efficacy of ajadirictha indica leaf | Dr. Mahesh | Dr. Rashmi |
| | aqueous extract mouth wash on streptococcus | Pillai | Nayak |
| | mutans count in children aged 8-11yrs. An in vivo | | |
| | study | | |
| 3. | Remineralization potential of theobromine on | Dr. Vani | Dr. N. |
| | artificial carious lesions. An in vitro study | Taneja | Sridhar |
| 4. | Effects of laser assisted fluoride therapy with diode | Dr. Praveen | Dr. Rashmi |
| | laser & Er Cr YSGG laser on enamel of primary | kanth Reddy | Nayak |
| | teeth. An in vitro study | | |
| 5. | Shear bond strength of two novel dentin | Dr. Wasiur | Dr. N. |
| | replacement materials and glass ionomer cement | Rahman | Sridhar |
| | bonded to two resin composites- | Chowdhury | |
| 6. | Comparative evaluation of erosive potential of | Dr. Priyanka | Dr. Deepika |
| | fortified and non-fortified fruit juices | Dedhia | Pai |

Completed PG projects:



| S. | Title | Name of the | Guide |
|-----|--|-------------|------------|
| No. | | student | |
| 1. | The Effect of three commercially available chewing | Dr. Priya | Dr. Rashmi |
| | gums on the calcium and phosphorus uptake and | Jariwala | Nayak |
| | Acidogenic potential of dental plaque-RCT | | |
| 2. | Antibacterial efficacy of MTAD and 1% Sodium | Dr. | Dr. Rashmi |
| | hypochlorite in primary and permanent teeth- A | Suryakant | Nayak |
| | Comparative Evaluation | | |

| S. | Title | Name of the | Guide |
|-----|---|-------------|------------|
| No. | | student | |
| 1. | Effect of resin infilteration on artificial caries | Dr. Deepesh | Dr. Rashmi |
| | lesions –an invitro evaluation of resin penetration | Prajapathi | Nayak |
| | and microhardness | | |
| 2. | Effect of probiotic lozenges on plaque pH and | Dr. Munira | Dr. Rashmi |
| | salivary and plaque levels of Streptococcuus | Baldiwala | Nayak |
| | mutans | | |

2014

| S. | Title | Name of the | Guide |
|-----|---|--------------|------------|
| No. | | student | |
| 1. | Oral habits in school going children in Udupi | Dr. Gayatri | Dr. Rashmi |
| | district – A prevalence study. | | Nayak |
| 2. | A comparative assessment of diffusion of hydroxyl | Dr. Sneha | Dr. Rashmi |
| | & calcium ions from calcium hydroxide based intra | Sreedhar | Nayak |
| | canal medicaments in primary teeth: An in vitro | | |
| | study | | |
| 3. | Evaluation of flexural strength of glass ionomer | Dr. Priyanka | Dr. Rashmi |
| | cement reinforced with zinc oxide whiskers- An | | Nayak and |
| | study | | Dr. |
| | | | Nagaraja |
| | | | Upadhya |

Details of publications:



- 1. Rupali Agnihotri, Sumit Gaur, Chemically modified tetracyclines: Novel therapeutic agents in the management of chronic periodontitis April 2012, Vol44(2)
- 2. Deepika Pai, Dr. Abhay Kamath. Hemangioma associated with an erupting permanent-molar a case report, International journal of dental clinics, Vol-4,No-1, page no-72-73 2012
- 3. Jyoti Hassija, Sridhar. N. Bruxism in children & Adolescent patients: A review, Manipal Odontoscope, Vol: 4,2012(33-37)
- 4. Sumit Gaur, Dr. Rupali Agnihotri Phenobarbital induced Steven-Johnson syndrome in a child. Journal of Indian Society of Pedodontics and Preventive Dentistry, Volume-44, Issue-4, Page-531,-July-Aug2012.
- Saurabh Kumar, Runki Saran. Rehabilitation of teeth affected by Amelogenesis Imperfecta in mixed dentition period, National Journal of Integrated Medicine, Vol.3 (2). April-June 2012. Page no. 95-97.
- 6. Aumir Beg. Management of a complicated Parasymphyseal Fracture Using Biodegradable Splinting Material: Two Case Reports, International Journal of Contemporary Dentistry January, 2012. 3(1)
- 7. Aumir Beg. Efficacy of Microwaves and Chlorhexidine for Disinfection of Pacifiers and Toothbrushes: An in vitro study. J Contemp Dent Pract 2012;13(5):690-694
- 8. Aumir Beg. Cleidocranial dysplasia A Case Report. Int. J Dent Case Reports 2012;2(5):139-144
- 9. Aumir Beg. Down's syndrome A Case Report. Int. J Dent Case Reports 2012;2(5):134-138

- 1. Deepesh Prajapati, Rashmi Nayak Kashyap N and Kappadi Damodar Band and loop redefined. Unique Journal of Medical and Dental Sciences 01(02),Oct-Dec 2013
- 2. Deepesh prajapati, Rashmi Nayak. Rashmdeep's method: A novel method to confirm nasal breathing. J Contemp Dent Pract; March –April 2013, 14(2)2-4
- Deepika Pai, Abhay T Kamath, Sham S Bhat, Sharan Sargod. An analysis of genetic influence on salivary parameters and caries experience—by correlation of incidence of dental caries and salivary parameters. International Journal of Dental Research, 1 (2) (2013)39-44



- Deepesh Prajapati, Rashmi Nayak. Damodar Kappadi, Anand Nayak. Complete maxilla in cross bite in the primary dentition- A rare case report. Asian Pac. J. Health Sci.2014;1(2)57-60
- 2. Bhaskar Vipin, Rashmi Nayak, Mopkar Pujan, Kumar Praveen. Antibiotic considerations in pediatric dentistry. Manipal Odontoscope 2014
- 3. Mopkar Pujan, Kumar Praveen, Nayak Rashmi, Bhaskar Vipin, Mouth Guards- Paving the way for safe sports. Manipal Odontoscope 2014
- 4. Dr. Deepesh Prajapati, Dr. Rashmi Nayak. Low level laser therapy in dentistry. Guident Jan 2014
- 5. Munira Baldiwala, Rashmi Nayak. Conservative Management of Riga-Fede disease. Journal of dentistry for children 81:2, 2014
- Kumar Praveen, Nayak Rashmi, Bhaskar Vipin, Mopkar Pujan. Pulpotomy medicaments: continued search for newer alternatives Oral Health and Dental Management vol13 no.4 November 2014
- 7. Sridhar. N, Jyoti Hassija. Healthy lifestyle for healthy gums: Dentistry, Vol 4(6),2014:1-8
- 8. Ritesh B, Sridhar. N, Kalyan Chakravarthy. P, Shashidhar Acharya Efficacy of triphala mouth rinse (aqueous extracts) on dental plaque and gingivitis in children. Journal of Investigative and Clinical Dentistry (2014 May 22. DOI: 10.1111/jicd.12094.
- 9. Deepika Pai, Abhay Taranath, Kalyan Chakravarthy. The role of casein phosphopeptide-amorphous calcium phosphate products in remineralisation of incipient enamel lesions and its substantivity. J Exp Integr Med 4(1):67-70,2014.
- 10. Abhay T Kamath, Deepika Pai, Amit B, Ambika Pradeep, Satpal Singh, Manish Bhagania. Challenges in rehabilitation of long standing ankylosis of temporomandibular joint- A case report of a 65 year old lady. Acta Medica Scientica 01(01)2014 9-10.
- 11. Agnihotri R, Gaur S. Implications of tobacco smoking on the oral health of older adults. Geriatr Gerontol Int. 2014 Jul; 14(3):526-40.
- 12. Gaur S, Agnihotri R. Green tea: a novel functional food for the oral health of older adults. Geriatr Gerontol Int. 2014 Apr;14(2):238-50.
- 13. Agnihotri R, Gaur S. Rheumatoid arthritis in the elderly and its relationship with periodontitis: a review. Geriatr Gerontol Int. 2014 Jan;14(1):8-22
- 14. Saurabh K, Runki Saran, Kalyan Chakravarthy P. "General Anaesthesia in Paediatric dentistry An institutional experience. GJMR volume:14 issue 6; November 2014



Details of Conference presentations:

2012

- Dr. attended and presented a paper on "Surface remineralization after acid etching and air abrasion: A laser fluorescence analysis" at Eighth PDAA conference held at Sanur Paradise Plaza, Bali, Indonesia on 24-26 May 2012.
- Dr. Deepika Pai attended 37th National Conference of AOMSI, Held at Hyderabad, 29, 30th November & 1st December, 2012 and presented a poster on "Update on management protocols of maxillofacial infections in children".
- 3. Dr. Saurabh Kumar attended FDI Annual World Dental Congress in Hong Kong on 29 August 2012 and presented a paper on "Soluble CD14-A novel tool for caries risk assessment in children".
- 4. Dr. Aumir Beg presented a paper titled 'Effect of Plasma on E fecalis' at 34th ISPPD conference Pattaya, Thailand 13th- 14th September 2012

- Dr. Rashmi Nayak attended Pedoscope, 35th Indian Society of Pedodontics and Preventive Dentistry Conference held in September 2013 at Jaipur and delivered a guest lecture on "Preventive pediatric dentistry: fact, fantasy or reality"
- 2. Dr. Rashmi Nayak attended 3rd Annual Conference of Karnataka State Chapter of AOMSI held at Manipal College of Dental Sciences, Manipal in March 2013
- 3. Dr. N. Sridhar presented paper titled "Probiotics in dentistry: A review of current status" at 41st KSDC IDA conference held at Coorg from 27th-297thNovember 2013
- 4. Dr. N. Sridhar as a co-author for Poster presentation titled "Bacteria: Not So Bad After All" at Sri Lanka Dental Association & FDI Conference held at Colombo, Sri Lanka from 27th June to 1st July 2013.
- Dr. Deepika Pai presented a poster on "Toe sucking habit a cause for recurrent pyrexia

 a case report" at 35th APDC at KLCC Kuala Lampur, Malaysia 7-12th May 28, 2013.
- Dr. Sumit Gaur presented "Ribbond" A Versatile Material in Pediatric Dentistry: Case Series At the 35th APDC Conference Held in Kuala Lumpur, Malaysia from 7-12 May, 2013.
- Dr. Sumit Gaur presented poster on "General Anesthetic considerations in pediatric dental management of congenital muscular dystrophy – a case report" at the 3rd Annual Conference of Karnataka State Chapter of AOMSI at Manipal from March 7-9, 2013.



- 8. Dr. Sumit gaur presented "Oxidative stress associated with passive smoking A risk for future periodontal disease in children?" at TM's 1st World Dental Online Conference, USA held on August 13-15, 2013.
- 9. Dr. Saurabh Kumar attended and presented a paper on "General Anesthesia: An Asset to pediatric dentist" 41st Karnataka State Dental Conference attended 22nd to 24th Nov 2013 at Coorg, Karnataka.

- 1. Dr. Rashmi Nayak attended Pedofest, 36th Indian Society of Pedodontics and Preventive Dentistry Conference held in October 2014 at Lucknow and participated in as invited resource person in a debate titled "Pulpotomy: a never ending saga"
- 2. Dr. Rashmi Nayak attended 2nd interstate and 42nd Karnataka state dental conference in November 2014 at Mangalore and participated as a panel member for discussion on "Preventive & interceptive orthodontics- Pedodontic and Orthodontic prospectives."
- 3. Dr. N. Sridhar presented paper on "zirconia crowns in pediatric dentistry" at 67th Indian Dental Conference held at HITEX, Hyderabad between 21-23rd February 2014
- 4. Dr. N. Sridhar presented a poster titled: "Fiber reinforced composites: Diversities in their clinical use" at 36th Asia Pacific Dental Congress held at Dubai world trade center, Dubai Between 17-19th June 2014
- 5. Dr. N. Sridhar attended and delivered a guest lecture on "An insight into pulp revascularization" at 36th ISPPD National Conference held at Lucknow, 14th -16th October, 2014
- 6. Dr. Deepika Pai attended and presented a paper on: "Man Vs wild: spectrum of cases of maxillofacial injuries in children. An update on management, evaluation of need for prevention policies" 36th ISPPD National Conference held at Lucknow, 14th -16th October, 2014
- Dr. Sumit Gaur presented "Parental cigarette smoking and oral health of children" in the Annual World Dental Congress, from 11th – 14th September 2014, New Delhi NCR, India
- 8. Dr. Sumit Gaur presented "Miracle foods for dental health" at TM's 2nd World Dental Online Conference, USA held in August 19-21, 2014
- 9. Dr. Saurabh Kumar attended and presented Poster presentation on "Essentiality of early diagnosis of molar incisor hypo mineralization in children, etiology, clinical presentation & its management- a review" at 67th IDC in February 2014 at Hyderabad.



10. Dr. Saurabh Kumar attended and presented poster on "General Anesthesia: A boon for pediatric dentistry" 25th IADR-SEAADE Conference attended in 11th -14th August in Kuching, Malaysia 2014

12. Placement record of the past students and the contribution of the department to aid student placements

| S. | Year of | Name of the | Institution where employed |
|----|---------------|------------------------|----------------------------|
| No | completion of | Postgraduate | |
| | postgraduate | | |
| | course | | |
| 1. | April 2012 | Dr. Priya Jariwala | Per suing DDS |
| 2. | April 2012 | Dr. Suryakanth Singh | Private practice |
| 3. | April 2013 | Dr. Deepesh Prajapathi | NIMS dental college and |
| | | | Hospital, Jaipur |
| 4. | April 2013 | Dr. Munira Baldiwala | Per suing DDS |
| 5. | April 2014 | Dr. Pujan mopkar | Private practice |
| 6. | April 2014 | Dr. Vipin bhaskar | Mahe Institute of Dental |
| | | | Sciences & Hospital, Mahe |
| 7. | April 2014 | Dr. Praven kumar | Navodaya Dental College, |
| | | | Raichur, Karnataka |

13. Plan of action of the department for the next five years

- Expand preventive dental services
- Conduct awareness programs regarding dental treatment of children for school teachers
- Training program on rotary endodontics for faculty & PGs
- To undertake school based brushing programs in government schools around Manipal.



ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

1. Faculty profile, adequacy and competency of faculty member:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. No | Name of faculty member | Qualification | Designation | Experience in years (As of 31 th Dec 2014) |
|----------|---------------------------|---------------|-----------------|---|
| 1 | Dr. Arun S Urala | MDS | Professor & HOD | 08 |
| 2 | Dr. Madhumitha | MDS | Reader | 04 |
| 3 | Dr. Ritesh Singla | MDS | Asst. Prof. | 03 |
| 4 | Dr. Siddharth Mehta | MDS | Asst. Prof. | 02 |
| 5 | Dr. Divya S | MDS | Asst. Prof. | <01 |

| Description | Sanctioned | Filled |
|----------------|------------|--------|
| Teaching staff | 04 | 05 |
| Lecturer | - | - |

2. Student profile – Entry level competencies, socioeconomic status, language proficiency etc.

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty members to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of studies, Manipal University. The examinations conducted reflect the synergy between clinicpathologic fields and are designed in an objective manner

• Changes made in the pattern of examinations from pure essay to MCQ's and Essay. By faculty members participation in the Board of Studies of Manipal University.



• Five year BDS course prescribed by DCI – implemented for August 2008 batch of BDS.

4. Trend in the success rate and dropout rate of students during the last five years

| Course | Pass percentage | | | Drop outs | | |
|-----------|-----------------|------|------|-----------|------|------|
| Course | 2012 | 2013 | 2014 | 2012 | 2013 | 2014 |
| Final BDS | 100 | 96 | 95 | Nil | Nil | Nil |
| MDS | 100 | 100 | 100 | Nil | Nil | Nil |

5. Learning resources of the department like library, computers, laboratories and other such resources

| Description of Resource | Quantity |
|-------------------------------|----------|
| Textbooks and Reference Books | 62 |
| Computers | 03 |
| Laboratory | 01 |
| Biostar Machine | 02 |
| Dolphin Software | 01 |

6. Modern teaching methods practiced and use of ICT in teaching-learning:

BDS

- Group discussion methods
- Chair side discussion of case history
- Demonstration
- Practical classes

MDS

- Seminars and journal clubs.
- Chair side discussion of cases
- CDE programmes
- Inter-department clinical club

7. Participation/contribution of teachers to the academic activities including teaching, consultancy and research

• Personal counseling regarding matters related to attendance and performance in examination by individual staff members (Teacher Guardian –Dr. Arun Urala and Dr. Siddharth Mehta).



8. Details of faculty development programmes and teachers who benefited during the past two years:

2012

| ру |
|--------|
| |
| ha, |
| ala, |
| umar |
| ala, |
| umar |
| |
| umar |
| ala, |
| na |
| ala |
| |
| lharth |
| |
| umar |
| ala, |
| na |
| ala |
| |
| ala |
| |
| ala |
| |
| a a |

| S. | Title of the program and details (Date and place) | Attended by |
|----|---|-----------------|
| No | | |
| 1 | Excellence in Dental Research, conducted by Dept. of Oral | Dr. Madhumitha, |
| | Pathology and Microbiology at MCODS, Manipal on 16 | |
| | November 2013. | |



| 2 | 21st century Orthodontic patient-Are we ready? conducted by the | Dr. Siddharth |
|----|---|-------------------|
| | Dept. of Orthodontics at A.B Shetty Dental college on 3 October | Mehta |
| | 2013. | |
| 3 | Emerging trends in dental education, conducted by Dept. of | Dr. Madhumitha |
| | Prosthodontics on 17 th September 2013. | |
| 4 | Emerging trends in dental education, conducted by Dept. of | Dr. Ritesh Singla |
| | Prosthodontics on 17 th September 2013. | |
| 5 | Emerging trends in dental education, conducted by Dept. of | Dr. Siddharth |
| | Prosthodontics on 17 th September 2013. | Mehta |
| 6 | Towards in success in research - Need for best practices. | Dr. Arun S Urala |
| | conducted by Dept. of Public Health Dentistry on 6 July 2013 | |
| 7 | Towards in success in research-need for best practices, | Dr. Madhumitha |
| | conducted by Dept. of Public Health Dentistry on 6 July 2013. | |
| 8 | Towards in success in research-need for best practices conducted | Dr. Ritesh Singla |
| | by Dept. of Public Health Dentistry on 6 July 2013. | |
| 9 | Towards in success in research-need for best practices conducted | Dr. Siddharth |
| | by Dept. of Public Health Dentistry on 6 July 2013. | Mehta |
| 10 | ICD Mid-year convention conducted by Mangalore Orthodontic | Dr. Arun Urala |
| | Study Group on 3 August 2013. | |
| 11 | Visualization of CBCT conducted by Dept. of Oral medicine and | Dr. Arun Urala |
| | radiology at MCODS, Mangalore on 22 nd February 2013. | |
| 12 | CDE in Orthodontics, at A.J Shetty dental college on 31st | Dr. Arun Urala |
| | January 3013 | |
| 13 | Global health and nutrition at A.B Shetty dental college on 12-13 | Dr. Santhosh |
| | February 2013 | Kumar. |

| S. | Title of the program and details (Date and place) | Attended by |
|----|--|------------------|
| No | | |
| 1 | Orthodontic Cornucopia conducted by Orthodontic Department | Dr. Arun S Urala |
| | at MCODS, Mangalore on 11 th January 2014 | |
| 2 | 7 th international dental students and 1 st dental surgeons congress | Dr. Siddharth |
| | on 28-29 March 2014 at Goa. | Mehta |
| 3 | 36th Asia Pacific dental congress, Dubai, UAE on 17-19 June | Dr. Madhumitha N |
| | 2014 | |



| 4 | 36th Asia Pacific dental congress, Dubai, UAE on 17-19 June | Dr. Ritesh Singla. |
|---|--|--------------------|
| | 2014 | |
| 5 | Understanding the Damon system conducted by Mangalore | Dr. Siddharth |
| | Orthodontic Study Group on 5 th July 2014. | Mehta |
| 6 | Understanding the Damon system conducted by Mangalore | Dr. Divya S. |
| | Orthodontic Study Group on 5 th July 2014. | |
| 7 | 49 th Indian orthodontic conference on 21-23 rd November 2014 at | Dr. Arun S Urala |
| | Kolkata | |
| 8 | 2 nd interstate and 42 nd Karnataka state dental conference on 28- | Dr. Siddharth |
| | 30 December 2014 | Mehta |
| 9 | Management of skeletal class III Malocclusions on 31st march | Dr. Siddharth |
| | 2014 at A.B. Shetty dental college, Mangalore. | Mehta. |

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

- Setting up the question papers of Manipal University and other universities
- Writing articles for national as well as international journals.
- Contributing chapters in books.
- Presenting scientific papers in national and international annual conferences.
- As guest speakers in international conference and foreign universities
- As examiners for undergraduate and postgraduate examinations in other Universities.
- Members of ISO core committee of the college.
- Members of Board of Studies
- Part of Teacher Guardian Scheme
- Members of Institutional Image Enhancement Committee
- Part of condemnation Committee

10. Collaborations with other departments and institutions at the national and international level and their outcome during the past two years

Impact of orthodontic treatment and socio economic status on daily performances in Indian school children: a two center study; collaboration with A.B. Shetty Memorial Institute, Mangalore. (Article published in JIAPHD, Siddharth Mehta, Nikhil Malviya, Ashima Valiathan, Sivakumar, U.S. Krishna Nayak.)



- In-vitro evaluation of new adhesive systems to prevent demineralisation adjacent to orthodontic brackets and to assess bracket bond strength with **Department of Microbiology, KMC, Manipal**.(Past thesis)
- Present thesis-a) Comparison of enamel surface after debonding and cleanup in teeth with untreated and treated white spot lesions-An in vivo study and 2) The effect of the oral environment on the flexural strength, tensile strength and modulus of elasticity of Niti wires An in vivo study with Department of Biochemistry, KMC Manipal and Department of Dental materials, MCODS, Manipal.

11. Priority areas for research and details of the ongoing projects, important and noteworthy publications of the faculty members, during past two years

Priority areas for research:

- Study model analysis of dental malocclusions
- Analysis of Bond strength and Re-mineralizing properties of newer adhesive systems
- Cephalometric analysis of common malocclusions and FEM evaluation of craniofacial deformities
- Newer ortho-surgical methods to reduce treatment duration
- Frictional properties of various bracket types and archwire combination

Ongoing projects:

| Category | Number |
|------------------------------|--------|
| Funded research projects | - |
| Non-funded research projects | - |
| PhD research projects | - |
| PG research projects | 06 |
| UG research projects | - |

Last 3 years (2012-2014)

| | 2012 | 2013 | 2014 |
|--|------|------|------|
| Completed funded research projects | - | - | - |
| Completed non-funded research projects | - | - | - |
| Completed PhD research projects | - | - | - |
| Completed PG research projects | 03 | 03 | 03 |



| Completed UC | G research projects | - | - | - |
|----------------|---------------------|----|----|----|
| Publications | International | 11 | 10 | 16 |
| 1 donedions | National | 03 | 01 | 05 |
| Books | | 02 | 03 | 05 |
| Chapters in bo | ooks | - | - | - |
| Conference | International | 02 | 03 | 03 |
| presentations | National | - | - | 02 |

Ongoing PG projects:

| S. | Topic | Name of the | Guide |
|----|--|-------------------|----------------|
| No | | Postgraduate | |
| | | student | |
| 1 | Comparison of enamel surface after debonding | Dr. Tazeen | Dr. Arun Urala |
| | and cleanup in teeth with untreated and treated | Wadiwala | |
| | white spot lesions-An in vivo study | | |
| 2 | The effect of the oral environment on the flexural | Dr. Amogh | Dr. Arun Urala |
| | strength, tensile strength and modulus of elasticity | Chandra | |
| | of Niti wires - An in vivo study | | |
| 3 | An EMG study to evaluate chewing efficiency | Dr. Vivek Reddy | Dr. Arun Urala |
| | before and after orthodontic treatment | | |
| 4 | Effect of real time environment on mechanical | Dr. Divya Pai | Dr. Arun Urala |
| | properties of 0.019 x 0.025 stainless steel | | |
| | preformed archwire: An in-vivo study | | |
| 5 | Effect of fluoridated mouthwash on surface | Dr. Gaurav | Dr. Arun Urala |
| | characterization and mechanical properties of | Agarwal | |
| | different orthodontic archwires | | |
| 6 | Evaluation of friction of stainless steel archwires | Dr. Sukriti Pahwa | Dr. Arun Urala |
| | coated with zinc oxide nanoparticles and the effect | | |
| | of fluoridated chlorhexidine mouthwash on it: An | | |
| | in vitro study | | |

Completed PG Projects:

| S. | Topic | Name of the | Guide |
|----|-------|--------------|-------|
| No | | Postgraduate | |



| | | student | |
|---|--|---------------|------------|
| 1 | Mandibular morphology and pharyngeal airway | Dr. Siddharth | Dr. Ashima |
| | space: A cephalometric evaluation. | Mehta | Valiathan |
| 2 | A comparative evaluation of the retention of | Dr. Padmaja | Dr. Ashima |
| | metallic brackets bonded with resin modified glass | Sharma | Valiathan |
| | ionomer cement under different enamel | | |
| | preparations: A pilot study. | | |
| 3 | Nasal morphology and lip morphology as an | Dr. Sushma | Dr. Ashima |
| | indicator of underlying vertical skeletal | Manjunath | Valiathan |
| | discrepancy. | | |

| S. | Topic | Name of the | Guide |
|----|---|----------------------|-------------|
| No | | Postgraduate student | |
| 1 | An in vitro comparative evaluation of effects of | Dr. Divya Omprakash | Dr. Arun |
| | reconditioning on the base morphology, slot width | Boob | Urala |
| | and shear bond strength of stainless steel metallic | | |
| | brackets. | | |
| 2 | In vitro evaluation of new adhesive systems to | Dr. Kini Nivedita | Dr. Subraya |
| | prevent demineralisation adjacent to orthodontic | suresh | Mogra |
| | brackets and to assess bracket bond strength. | | |
| 3 | Effect of soft drinks on friction between the | Dr. Shaik Mohammed | Dr. Subraya |
| | archwire and bracket: An in vitro evaluation. | Saad shakil | Mogra |
| | | | |

| S. | Topic | Name of the | Guide |
|----|--|------------------|-------------|
| No | | Postgraduate | |
| | | student | |
| 1 | The effect of alcohol free and alcohol containing | Dr. Uzma Mukri | Dr. Subraya |
| | mouth rinses on the force decay of elastomeric | | Mogra |
| | chains-an in vitro study | | |
| 2 | Effect of artificial saliva on mechanical properties | Dr. Parul Dasson | Dr. Subraya |
| | of stainless steel archwires :an in vitro evaluation | | Mogra |
| | | | |



| 3 | Effects of vibration on frictions | l forces on | Dr. Apurava Singh | Dr. Arun Urala |
|---|-----------------------------------|-------------|-------------------|----------------|
| | retraction of orthodontic bracket | s along the | | |
| | archwire | | | |

Details of publications

- 1. Santosh Kumar, Priyanka Jayaswal, Kalyana Chakravarthy Pentapati, Ashima Valiathan, Nidhi Kotak. Investigation of the transmigrated canine in an orthodontic patient population. Journal of Orthodontics 2012; 39:89-94.
- Santosh Kumar, Arun Urala, Abhay Kamath, Priyanka Jayaswal, Ashima Valiathan.
 Unusual intraosseous transmigration of impacted tooth, Imaging Science in Dentistry. 2012; 42:47-54.
- 3. Santosh Kumar, Ashima Valiathan, Pawan Gautam, Kalyana Chakravarthy Pentapati, Priyanka Jayaswal. An Evaluation of the Pi Analysis in the Assessment of Anteroposterior Jaw Relationship. Journal of Orthodontics.2012;39(4): 262-269
- 4. Chand Sawhney and Santosh Kumar. Modified Transpalatal Appliance: A Simple Non-Invasive Technique for Maxillary Molar Intrusion. Dental Update.2012; 39:228.
- 5. Eety Jain, Ashima Valiathan, Arun Urala, Santosh Kumar, Madhumitha Osteogenesis Imperfecta and Pneumatization of bone- a hidden reality. World Journal of Orthodontics;2012;39(4): 262-269.
- 6. Santosh Kumar, Sumit Gandhi, Ashima Valiathan. Perception of smile esthetics among Indian dental professionals and laypersons. Indian Journal of Dental Research 2012;23(2) 295-302.
- 7. Rakesh Agarwal, Chand Sawhney, Santosh Kumar, Amit Agarwal. Beggs technique: revisiting the old glory. Heal Talk. 2012; 4:10.
- 8. Siddharth Mehta, Surendra Lodha, Arun Urala. Arch Form: Is the shape right? Guident 2012; 5:51.
- 9. Surendra lodha, Farhan parkar, Eety jain. Shadow free intraoral photography. Guident.2012; 5:65-66.
- Surendra Lodha, Siddharth Mehta, Ashima Valiathan. Pearls- Suction tip holder. JCO 2012; 46(12):738
- 11. Surendra Lodha, Siddharth Mehta. Modified labial bow. Dental Update 2012, July issue, page 444
- 12. Siddharth Mehta, Surendra Lodha, Eety Jain. Management of congenitally missing premolars- a literature review.Guident.2012; 5:40.



- 13. Siddharth Mehta, Gurkaran preet singh, Surendra Lodha. Utility Ties: Modified Kobayashi Ties. JIOS 2012;46(4):232.
- 14. Madhumitha N, Surendra Lodha, Chakradhar; Modified Butterfly Deprogrammers: Made Easy Dental update 2012:march issue, page 148.

- 1. Ritesh Singla and Nishu Singla. Dentists- Are they the first informers? Guident dental journal, Feb. 2013.
- 2. Dr. Santosh Kumar. Effect of low pull headgear on head position. The Saudi dental journal 2012;25:23-27
- 3. Madhumitha N, Ritesh Singla. Orthodontic Management of congenitally missing maxillary lateral incisors-A Case Report. Guident 2013
- 4. Ritesh Singla, Nishu Singla, Madhumitha N., Vijay R. Naik. North Karnataka patients' expectations of orthodontic treatment A questionnaire study. E journal of Dentistry March 2013;3(1):318-25.
- 5. Ritesh Singla, Madhumitha N., Nishu Singla. Management of Impacted Maxillary Canine Two Case Reports. Guident Dental Journal May 2013;6(6):42-8.
- 6. Ritesh Singla, Madhumitha N., Nishu Singla. Management of Deep Overbite A Case Report. Guident Dental Journal.
- Ritesh Singla, Madhumitha N., Nishu Singla. Management of Class I malocclusion with unilateral first premolar extractions – A Case Report. Journal of Dentofacial Sciences. 2013;2(3):51-4.
- 8. Ritesh Singla, Nishu Singla. Oral Health care during pregnancy A Review. Guident Dental Journal. 2013;6(10):82-3.
- 9. Ritesh Singla, Nishu Singla. Oral Health Care in aging- A Review. Guident Dental Journal. 2013;6(11):64-7.
- 10. Madhumitha N, Ritesh Singla and Dr. Bharath Rao. Bilateral Bifid mandibular condyle. E-journal of dentistry, Vol 4(1),Oct-Dec 2013,e-513-516.
- 11. Eety Jain, Ashima Valiathan, Arun Urala, Santosh Kumar, Madhumitha N. Osteogenesis Imperfecta and Pneumatization of bone- a hidden reality. The art and practice of dentofacial enhancement(formerly World Journal of Orthodontics) Year book 2013, Vol1(4),e-1513-516

2014

1. Siddarth Mehta, Dr. Anjali Mehta, Dr. Surendra Lodha. Face Mask Therapy-A Review. Guident Dental Journal. Feb 2014, pages 50-52.



- 2. Dr. Surendra Lodha, Siddarth Mehta and Dr. Rajesh Agarwal. Double loop de-rotator. APOS Trends in Orthodontics.2014;4(2):15-16.
- 3. Madhumita N, Dr. Bharath Rao and Dr. Parul Dasson. Rationale for bi-jaw surgery in an asymmetric class III mandible-A Case Report, Guident Dental Journal, March 2014, Pages 50-54.
- 4. Bharath K Rao, Dr. Sam Raj Srinivasan and Madhumita N. Evaluation and comparison of Lip print patterns among Indians, Chinese and Malay. Guident Dental Journal, April 2014, Pages 16-18.
- 5. Sudeendra Lodha, Dr. Agarwal Rajesh, and Siddarth Mehta. Alternative method zur aktivierumg einer forsus apparatur. Orthodontics: The magazine for practical frequency. March 2014, Vol28(1), Pages 79-80.
- 6. Surendra Lodha, Siddharth Mehta, Rajesh Agarwal. A smart elastic reminder. Journal of Clinical Orthodontics 2014;48(3):180.
- Siddharth Mehta, Ashima Valiathan, Arun Urala. Treatment of class II subdivision malocclusion with congenitally missing upper lateral incisors: a case report. APOS Trends in Orthodontics 2014;4:70-5.
- 8. Pankhuri Jain, Jasleen Suri, Lalith Nag Mora, Siddharth Mehta. Assessment of oral impacts of orthodontic treatment on school children in Manipal. Journal of International Academic Research For Multidisciplinary 2014;2(5):308-13.
- 9. Surendra Lodha, Santosh Kumar, Siddharth Mehta. Active lingual retainer: a technique tip. Dental update 2014;41(5):473.
- 10. Nishu Singla, Shashidhar Acharya, Ritesh Singla, Deepak Singhal. Prevalence of needle stick injury among the nursing personnel in an Indian medical hospital: A cross sectional survey. Journal of International Academic Research for Multidisciplinary 2014;1(12):449-459.(Jan)
- 11. Anchal Goel, Ritesh Singla, Nishu Singla. Evaluation Of Impact On Daily Performances in Patients Wearing Fixed Orthodontic Appliances. Journal of International Academic Research for Multidisciplinary 2014;1(12):693-701.(Jan)
- 12. Nikhil Patil, Ritesh Singla, Nishu Singla. Pain Perception Due To Orthodontic Seperators with and without Diclofenac Mouthwash. Journal of International Academic Research for Multidisciplinary 2014;2(2):475-486.(March)
- 13. Nishu Singla and Ritesh Singla. Green Dentistry-A Revolution: A review. Guident Dental Journal 2014;7(4):86-87.(March)
- 14. Siddharth Mehta, Anjali Mehta and Surendra lodha. Occupational hazards in dentistry-a review. Guident 2014;7(5):76-8



- 15. Siddharth Mehta, Anjali Mehta and Surendra lodha. Cleft palate case: Treatment with an obturator. Guident Aug 2014;50
- 16. Ritesh Singla, Capt. Sardeep Kasana, Keluskar K.M, Nishu Singla, Vaishali Keluskar. Assessment of external root resorption-A Radiographic study. E journal of dentistry Jan-Mar 2014;4(1):545
- 17. Siddharth Mehta, Anjali Mehta and Surendra lodha. Standard edgewise simplified. Guident Sept 2014;72
- 18. Surendra lodha, Siddharth Mehta and Rajesh Agarwal. Technique tips-a smart radiograph viewer. Dental Update Oct 2014
- 19. Anjali Mehta, Siddharth Mehta. Tooth or implant: What's the difference? Guident Nov 2014:72
- 20. Nishu Singla, Shashidhar Acharya, Suganthi Martena, Ritesh Singla. Effect of oil gum massage therapy on common pathogenic oral microorganisms A randomised controlled trial. Journal of Indian Society of Periodontology 2014;18:441-6.
- 21. Nishu Singla, Shashidhar Acharya, Kalyana Chakravarthy, Deepak Singhal, Ritesh Singla. Role of patients 'socioeconomic status, knowledge and attitude towards dental care on their treatment preference for root canal treatment versus extraction. e-Journal of Dentistry. Jul Sep 2014 Vol 4 Issue 3. Page 630-6.

Details of books published by faculty:

2012

| S. | Title of the Book | Name of the | Publisher |
|----|---|-------------------|------------------|
| No | | faculty | |
| 1 | Molar Distalization- Basics, Concepts & | Dr. Ritesh Singla | Lambert academic |
| | Methods | | publishing |
| 2 | Orthodontics and medically | Dr. Siddharth | Lambert academic |
| | compromised | Mehta | publishing |

| S. | Title of the Book | Name of the | Publisher |
|----|-------------------------------------|-------------------|------------------|
| No | | faculty | |
| 1 | Fixed functional appliances | Dr. Ritesh Singla | Lambert academic |
| | | | publishing |
| 2 | Hormonal regulation of craniofacial | Dr. Siddharth | Lambert academic |
| | growth | Mehta | publishing |



| 3 | Orthodontics and law | Dr. Siddharth | Lambert academic |
|---|----------------------|---------------|------------------|
| | | Mehta | publishing |

| S. | Title of the Book | Name of the | Publisher |
|----|---|------------------------|-----------------------------|
| No | | faculty | |
| 1 | Functional matrix hypothesis and its modifications | Dr. Ritesh Singla | Lambert academic publishing |
| 2 | Oral habits and psychotherapy | Dr. Siddharth Mehta | Lambert academic publishing |
| 3 | Surgical orthodontics | Dr. Siddharth Mehta | Lambert academic publishing |
| 4 | Pernicious oral habits and its management aspects in orthodontics | Dr. Divya S | Lambert academic publishing |
| 5 | Evolution of muscles of face | Dr. Divya S | Lambert academic publishing |

Details of Conference presentations

2012

- Dr. Santhosh kumar was a Speaker at 8th Biennial Conference, Pediatric Dentistry Association of Asia, held at Bali, Indonesia from 25th& 26th May, 2012.
- Dr. Madhumitha presented a E-poster titled "Holistic approach in treating bruxism and masticatory myalgia - A case report at American association of orthodontics(AAO), Annual session, in Honolulu, HI, USA, May 5-8, 2012

2013

- 1. Dr. Madhumitha. Clinical poster presentation at AOS biennial orthodontic conference, at Marina bay sands, Singapore, March 22-24, 2013.
- 2. Dr. Madhumitha. Scientific E-poster presentation at the American Association of Orthodontics Conference (AAO), Annual Session, Philadelphia, May 4-7,2013
- Dr. Ritesh Singla presented Poster titled "Management of Impacted maxillary canine Two case reports" at FDI/CDA/SLDA joint International Conference held on 28th-30th June, 2013 at Colombo, Sri Lanka.



- Dr. Madhumitha. Scientific E-poster presentation at the American Association of Orthodontics Conference (AAO), Annual Session, New Orleans, LA, April 25-29,2014.
- 2. Dr. Madhumitha. Clinical poster presentation at Asia Pacific Dental Congress (APDC 2014), at Dubai, U.A.E, June 17th-19th 2014.
- 3. Dr. Ritesh Singla presented Poster titled "Management of Skeletal Class II malocclusion with Forsus TM fatigue-resistant device (FRD) at 36th Asia Pacific Dental Congress held on 17th-19th June, 2014 at Dubai, UAE.
- 4. Dr. Siddarth Mehta presented eposter titled "Treatment of class II subdivision malocclusion with congenitally missing lateral incisor" at 7th international dental students and 1st dental surgeons congress on 28-29 March 2014 at Goa.
- 5. Dr. Siddarth Mehta presented eposter titled "Cleft palate: Treatment with obturator" at 2nd inter-state and 42nd Karnataka state dental conference on 28-30 November 2014 at Mangalore

12. Placement record of the past students and the contribution of the department to the student placements: (2012 to 2015)

| postgraduate exam 1 2012 Dr. Sushma Dilipraj Private Practice, Mangalore 2 2012 Dr. Padmaja Sharma Baroda Dental College, Baroda 3 2012 Dr. Siddharth Mehta MCODS, Manipal 4 2013 Dr. Eety Jain Senior Resident Orthodontist, London, U.K 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | S.No | Year of | Name of the student | Institution where employed | |
|---|------|--------------|---------------------|------------------------------------|--|
| 1 2012 Dr. Sushma Dilipraj Private Practice, Mangalore 2 2012 Dr. Padmaja Sharma Baroda Dental College, Baroda 3 2012 Dr. Siddharth Mehta MCODS, Manipal 4 2013 Dr. Eety Jain Senior Resident Orthodontist, London, U.K 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | | passing | | | |
| 1 2012 Dr. Sushma Dilipraj Private Practice, Mangalore 2 2012 Dr. Padmaja Sharma Baroda Dental College, Baroda 3 2012 Dr. Siddharth Mehta MCODS, Manipal 4 2013 Dr. Eety Jain Senior Resident Orthodontist, London, U.K 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | | postgraduate | | | |
| 2 2012 Dr. Padmaja Sharma Baroda Dental College, Baroda 3 2012 Dr. Siddharth Mehta MCODS, Manipal 4 2013 Dr. Eety Jain Senior Resident Orthodontist, London, U.K 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | | exam | | | |
| 3 2012 Dr. Siddharth Mehta MCODS, Manipal 4 2013 Dr. Eety Jain Senior Resident Orthodontist, London, U.K 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | 1 | 2012 | Dr. Sushma Dilipraj | Private Practice, Mangalore | |
| 4 2013 Dr. Eety Jain Senior Resident Orthodontist, London, U.K 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | 2 | 2012 | Dr. Padmaja Sharma | Baroda Dental College, Baroda | |
| London, U.K 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | 3 | 2012 | Dr. Siddharth Mehta | MCODS, Manipal | |
| 5 2013 Dr. Surendra Lodha Private Practice, Bhilwara, Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | 4 | 2013 | Dr. Eety Jain | Senior Resident Orthodontist, | |
| Rajasthan 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | | | | London, U.K | |
| 6 2013 Dr. Farhan Parkar Consultant Orthodontist, Kuwait | 5 | 2013 | Dr. Surendra Lodha | Private Practice, Bhilwara, | |
| | | | | Rajasthan | |
| | 6 | 2013 | Dr. Farhan Parkar | Consultant Orthodontist, Kuwait | |
| 7 2014 Dr. Boob Divya Private Practice, Maharashtra | 7 | 2014 | Dr. Boob Divya | Private Practice, Maharashtra | |
| Omprakash | | | Omprakash | | |
| 8 2014 Dr. Niveditha kini Consultant Orthodontist, Bangalo | 8 | 2014 | Dr. Niveditha kini | Consultant Orthodontist, Bangalore | |
| Suresh | | | Suresh | | |
| 9 2014 Dr. Shaik mohammed Consultant Orthodontist, Pune | 9 | 2014 | Dr. Shaik mohammed | Consultant Orthodontist, Pune | |
| Saad Shakil | | | Saad Shakil | | |



13. Plan of action of the department for the next five years

- Enhancement of student learning resources by providing more text books to the department library, organizing table clinics for students.
- Enhancement of patient care by getting more recent diagnostic equipment, ensure quality control on treatment outcome.
- Enhancement of research activities by encouraging funding from external resources, collaborations with other departments and institutions at the national and international level.



PUBLIC HEALTH DENTISTRY

1. Faculty profile, adequacy and competency of faculty member:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. No | Name of faculty | Qualification | Designation | Experience in years |
|-------|---------------------|---------------|--------------|-------------------------|
| | member | | | (As of 31 st |
| | | | | December 2014) |
| 1 | Dr. Shashidhar | MDS | Professor& | 12 |
| | Acharya | | Head | |
| 2 | Dr. Ram Prasad VP | MDS | Assoc. Prof. | 06 |
| 3 | Dr. P Kalyana | MDS | Reader | 04 |
| | Chakravarthy | | | |
| 4 | Dr. Deepak Kumar | MDS | Asst. Prof. | 03 |
| | Singhal | | Asst. 1101. | |
| 5 | Dr. Nishu Singla | MDS | Asst. Prof. | 02 |
| 6 | Dr. Bhawani Chandra | BDS | Lecturer | 01 |
| 7 | Dr. Kalavathi | BDS | Lecturer | 01 |
| 8 | Dr. Sonali C | BDS | Lecturer | 01 |

| Description | Sanctioned | Filled |
|----------------|------------|--------|
| Teaching staff | 05 | 05 |
| Lecturer | 03 | 03 |

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty members to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of studies,



Manipal University. The examinations conducted reflect the synergy between clinicpathologic fields and are designed in an objective manner

- Changes made in the pattern of examinations from pure essay to MCQ's and Essay. By faculty members participation in the Board of Studies of Manipal University.
- Revision of the Clinical Record of the Department of Public Health Dentistry.
- Reorganization of the Departmental Academic activities
- One faculty member allotted to guide each Post Graduate student
- One faculty member made in charge of each batch of UG students.
- Interns to prepare five health education materials during their posting as per DCI 2011 amendment guidelines.
- Dental Outreach Programmes: mentoring of interns, Amchi Project 2012, 2013, 2014
- Improvement in Department Infrastructure.
- Procured LCD projectors, Tables, Cabinets and additional intercom lines.
- Collecting Health Education Material from Interns.

4. Trends in the success rate and dropout rate of students during the past two years

| Course | Pass percentage | | | Drop outs | | |
|-----------|-----------------|-------|------|-----------|------|------|
| Course | 2012 | 2013 | 2014 | 2012 | 2013 | 2014 |
| Final BDS | 98.9 | 97.82 | 95.6 | Nil | Nil | Nil |
| MDS | 100 | 100 | 100 | Nil | Nil | Nil |

5. Learning resources of the department like library, computers, laboratories and other such resources

| Resource Description | Quantity |
|--|----------|
| Textbooks and Reference Books | 130 |
| Manipal University Main Dissertations (Thesis) | 63 |
| Other University Dissertations (Thesis) | 38 |
| Library Dissertations | 38 |
| Term Dissertations | 61 |
| Department Computer with Internet facility | 02 |
| Mobile Dental Van | 01 |
| LCD Projector | 01 |
| OHP Projector | 01 |



During the last two years, text Books in Public Health Dentistry, Biostatistics, Epidemiology and Community Medicine procured for both the Departmental Library and Central Health Sciences Library, along with the renewal of e-journals.

6. Modern teaching methods practiced and use of ICT in teaching-learning:

BDS

- Group discussion methods and field visits
- Making of posters and pamphlets on oral health topics
- Health Survey, data entry and making of a report
- Chair side discussion of case histories and recording of dental indices

MDS

- Seminars and journal clubs.
- Problem solving exercises.
- Chair side discussion of case histories and preventive procedures in clinics
- CDE programmes
- Inter-department clinical club

7. Participation/contribution of teachers to the academic activities and counseling of students

- Counseling done for poor performers and irregular attendees on a regular basis.
- Options explained and records maintained in the department.
- In certain cases, improvement Sessional tests are arranged.
- Protocol Submitted for establishment of Tobacco Cessation centre at MCODS,
 Manipal.
- 2013 Vision Group on Science and Technology Grant application Under CESEM.

8. Details of faculty development programmes and teachers who benefited during the past two years:

| S. | Details of the program | Attended by |
|----|---|----------------------|
| No | | |
| 1. | Continuing Dental Education programme on "Periodontal | Deepak Kumar Singhal |
| | Medicine" organized by Department of Periodontology, | Nishu Singla |
| | | |



| | Manipal College of Dental Sciences, Manipal on 1st Sep | |
|---|--|-------------------------|
| | 2012 | |
| | | |
| 2 | Continuing Dental Education programme on | Deepak Kumar Singhal |
| | "Management of Biofilm in Periodontal Disease" | |
| | organized by Department of Periodontology, Manipal | |
| | College of Dental Sciences, Manipal on 15 th Sep 2012 | |
| 3 | Faculty Development Program on "Data Analysis for | Deepak Kumar Singhal |
| | Research" organized by Manipal Institute of Management, | |
| | Manipal on 5-7 th Oct 2012 at Manipal | |
| 4 | Future Dental Professional Program conducted by Colgate | Deepak Kumar Singhal |
| | and IDA on 17 th Nov 2012. | P Kalyana Chakravarthy |
| | | Ram Prasad VP |
| | | Nishu Singla Shashidhar |
| | | Acharya |
| 5 | Workshop on "Tax Planning and Investment" organized | Deepak Kumar Singhal |
| | by Finance Forum of MIM held at 24th Jan 2012 at | |
| | Manipal Institute of Management, Manipal | |

| S. | Details of the program | Attended by |
|----|---|-------------------------|
| No | | |
| 1 | Continuing Dental Education programme on "Towards | Deepak Kumar Singhal |
| | success in Dental Research -Need for Best Practices" | P Kalyana Chakravarthy |
| | organized by Department of Public Health Dentistry, | Ram Prasad VP |
| | Manipal College of Dental Sciences, Manipal on 6 th July | Nishu Singla Shashidhar |
| | 2013 | Acharya |
| 2 | Workshop on "Ethical Issues in Biomedical Research" | Deepak Kumar Singhal |
| | jointly organized by Manipal Centre for Professional and | |
| | Personal Development and Department of Hospital | |
| | Administration, KMC, Manipal 0n 29 th and 30 th May | |
| | 2013 | |
| 3 | National Workshop on statistical analysis using R: 7-8 th | P Kalyana Chakravarthy |
| | Feb 2013 KMC, Manipal | |
| 4 | National Seminar on Healthcare Management 3-5 th | Ram Prasad VP |
| | | |



| | December 2013, Kasturba Medical College, Manipal | |
|---|---|---------------|
| 5 | CDP program on 'Emerging trends in dental education' | Nishu Singla |
| | conducted by Manipal Centre for professional and | |
| | personal development, Manipal university on 17th | |
| | September 2013. | |
| 6 | Workshop – Data to Action: Building blocks of Tobacco | Ram Prasad VP |
| | Control Research. 9 th September 2013, New Delhi | |
| 7 | Excellence in Dental Research, Oral Pathology and | Ram Prasad VP |
| | Microbiology, MCODS, Manipal 16 th November 2013 | |

| S. | Details of the program | Attended by |
|----|---|-------------------------|
| No | | |
| 1 | Oral Health Policy - State level symposium: Yenepoya | Deepak Kumar Singhal, |
| | University, Mangalore on 17 th Feb 2014, | P Kalyana Chakravarthy |
| | | Ram Prasad VP |
| | | Nishu Singla Shashidhar |
| | | Acharya |
| 2 | "Management of persons with tobacco use disorders" | Deepak Kumar Singhal, |
| | organized jointly by the Department of Community | Ram Prasad V.P. |
| | Medicine and Psychiatry, KMC, Manipal University, | |
| | Manipal in association with the Dr. TMA Pai Endowment | |
| | Chair for Social Entrepreneurship on 22 nd May 2014 | |
| 3 | Workshop on "Knowledge, Memory and Learning" | Deepak Kumar Singhal |
| | organized by Manipal Centre for Professional and | |
| | Personal Development, Manipal on 26 th April 2014 | |
| 4 | Mini Workshop on Teacher Effectiveness, MCPD | Ram Prasad VP |
| | 25 th January 2014 | |
| 5 | Evolution of Teaching and Learning in Higher Education | Ram Prasad VP |
| | 15 th May 2014, MCPD, Manipal | |
| 6 | Tobacco Use Cessation: Perspectives and Practice. 7 th | Ram Prasad VP |
| | June 2014, MCODS, Mangalore | |
| 7 | 25 years of ART approach – 1-2 nd Sep 2014, GDCRI, | Ram Prasad VP, Deepak |
| | Bangalore | Kumar Singhal, P |
| | | Kalyana Chakravarthy |



9. Participation /contribution of teachers in academic activities including teaching, consultancy and research

Teaching

- Setting up the question papers of Manipal University and other universities
- Writing articles for national as well as international journals.
- Contributing chapters in books.
- Presenting scientific papers in national and international annual conferences.
- As guest speakers in international conference and foreign universities
- As examiners for undergraduate and postgraduate examinations in Manipal University, Rajiv Gandhi University and Dr. MGR Medical University.
- Members of ISO core committee of the college.
- Members of Board of Studies
- Part of Teacher Guardian Scheme
- Members of Institutional Image Enhancement Committee
- Part of Surprise Check Squad.
- Part of Dental Council of India Local Inspection Committee Inspections.
- Part of Condemnation Committee
- Part of Community Health Services committee
- Part of IDA Manipal branch President and Editor
- Member of Oral Health Working Group

Research by faculty

| S. | TOPIC | Name of faculty | |
|----|--|------------------|--|
| No | | | |
| 1. | Cynical hostility and its relationship with dental anxiety among | Dr. Shashidhar | |
| | dental patients | Acharya | |
| 2. | Reliability of intra-oral camera for diagnosing oral diseases | Dr. P Kalyana | |
| | | Chakravarthy | |
| 3. | Knowledge and attitude of dental students towards HIV/AIDS | Dr. Deepak Kumar | |
| | patients: A questionnaire survey | Singhal | |
| 4. | Use of Fagerstrom Addiction Scale amongst Out Patients and | Dr. Ram Prasad | |
| | use of tobacco. | VP | |
| 5. | Use of Case Based Learning amongst Dental Interns | Dr. Ram Prasad | |



| | VP |
|--|----|
| | |

| S. | TOPIC | Name of faculty |
|----|---|-------------------|
| No | | |
| 1 | Unmet restorative treatment needs among orphanage children | Dr. P Kalyana |
| | of Uttara Kannada District. | Chakravarthy |
| 2 | Socioeconomic mobility and tobacco consumption patterns in | Dr. Shashidhar |
| | fish industry workers in Udupi District of coastal Karnataka | Acharya |
| 3 | Prevalence and clinical consequences of untreated dental caries | Dr. Deepak Kumar |
| | using PUFA index among school children in Udupi taluk, | Singhal |
| | India | |
| 4 | Advocacy of Oral hygiene Practices. | Dr. Ram Prasad VP |
| 5 | Oral Cancer Awareness | Dr. Ram Prasad VP |

2012

| S. | TOPIC | Name of faculty | |
|----|---|-----------------|--|
| No | | | |
| 1 | Association of anthropometric measures and dental caries | Dr. P Kalyana | |
| | among a group of adolescent cadets of Udupi district, South | Chakravarthy | |
| | India | | |
| 2 | Relationship with dental anxiety and beliefs among Indian | Dr. Shashidhar | |
| | dental patients | Acharya | |
| 3 | Social mobility and tobacco habits among fishing industry | Dr. Shashidhar | |
| | workers of Udupi district | Acharya | |

- 10. Collaborations with other departments and institutions at the State, National and International level and their outcome during the past two years
 - Along with Wisdom Tooth, European Dental Students Association and Manipal University, Dental Outreach Programme at Ladakh – Amchi Project.
- 11. Priority areas for research and details of the ongoing projects, important and noteworthy publications of the faculty members, during past two years.

If research is a significant activity, the thrust areas of the department

Oral disease epidemiology



- Clinical trials
- Oral health promotion

Details of the ongoing projects:

| Category | Number |
|------------------------------|--------|
| Funded research projects | - |
| Non-funded research projects | - |
| PhD research projects | - |
| PG research projects | 06 |
| UG research projects | 04 |

Last 3 years (2012-2014):

| | | 2012 | 2013 | 2014 |
|--|---------------------|------|------|------|
| Completed funded research projects | | - | - | - |
| Completed non-funded research projects | | - | - | - |
| Completed Ph | D research projects | - | - | - |
| Completed PG research projects | | 02 | 02 | 02 |
| Completed UG research projects | | 02 | 08 | 04 |
| Publications | International | 08 | 14 | 18 |
| 1 doncations | National | 06 | 08 | 14 |
| Books | | - | - | 01 |
| Chapters in books | | - | 01 | - |
| Conference | International | 04 | 04 | 04 |
| presentations | National | 05 | 02 | 02 |

Ongoing PG projects:

| S. | Торіс | Name of the | Guide |
|----|---|------------------|----------------|
| No | | Postgraduate | |
| | | student | |
| 1. | Change In Oral Health Related Quality Of Life | Dr. Abhinav T.N. | Dr. Shashidhar |
| | In Patients Undergoing Conventional | | Acharya |
| | Prosthodontic Rehabilitation: A One Month | | |
| | Follow Up Study | | |
| 2. | Prevalence And Severity Of Untreated Carious | Dr. Shatakshi | Dr. Shashidhar |
| | Lesions And Its Impact On Quality Of Life Of | Srivastava | Acharya |



| | Children | | |
|----|---|----------------|----------------|
| 3. | A Cross Sectional; Study To Assess Root Surface | Dr. Kush Kalra | Dr. Ram |
| | Caries Status Amongst Elderly Population | | Prasad VP |
| | Including Known Diabetics In Udupi District, | | |
| | Karnataka State. | | |
| 4. | Comparison of long term effects of chronic | Dr. Raashi Raj | Dr. Shashidhar |
| | respiratory disease medication on the oral health | | Acharya |
| | status of adults- a case control study | | |
| 5. | A Cross Sectional; Study To Assess Root Surface | Dr. Kush Kalra | Dr. RamPrasad |
| | Caries Status Amongst Elderly Population | | V.P. |
| | Including Known Diabetics In Udupi District, | | |
| | Karnataka State. | | |
| 6. | Comparison of long term effects of chronic | Dr. Raashi Raj | Dr Shashidhar |
| | respiratory disease medication on the oral health | | Acharya |
| | status of adults- a case control study | | |

Completed PG Projects:

2012

| S. | Topic | Name of the | Guide |
|----|--|-----------------|----------------|
| No | | Postgraduate | |
| | | student | |
| 1 | Prevalence and risk factors for Dental erosion | Dr. Sandeep | Dr. Shashidhar |
| | among 11-14 year old school children in Udupi | Kumar | Acharya |
| | taluk, Karnataka. | | |
| 2 | Lifestyle factors affecting the periodontal health | Dr. Nishu Gupta | Dr. Shashidhar |
| | status of adult population attending dental | | Acharya |
| | outreach centers of Udupi taluk. | | |

| S. | Topic | Name of the | Guide |
|----|--|------------------|----------------|
| No | | Postgraduate | |
| | | student | |
| 1 | Oro-facial pain: Prevalence and associated factors | Dr. Siddhi | Dr. Shashidhar |
| | in people of Udupi taluk. | Hathiwala | Acharya |
| 2 | Effectiveness of school dental health program in | Dr. Snehal Patil | Dr. Shashidhar |



| improving oral health beliefs and oral hygiene in | Acharya |
|---|---------|
| school children of Udupi Taluk. | |

| S. | Topic | Name of the | Guide |
|----|---|-------------------|----------------|
| No | | Postgraduate | |
| | | student | |
| 1. | Comparative evaluation of arginine containing | | Dr. Shashidhar |
| | dentifrice in reducing dentinal hypersensitivity, a | Dr. Samuel Raj | Acharya |
| | randomized controlled trial. | | |
| 2. | Comparative evaluation of retention and caries | | Dr. Shashidhar |
| | preventive effect of different pit and fissure | Dr. Sachin Khatri | Acharya |
| | sealants in 6-9 year old school children, a | | |
| | randomized controlled trial. | | |

Details of the publication:

- Honne T, Pentapati K, Kumar N, Acharya S. Relationship between obesity / overweight status, sugar consumption and dental caries among adolescents in South India. Int J Dent Hygiene. 2012;10:240-244.
- Shashidhar Acharya, P Kalyana Chakravarthy. Work stress and oral health-related quality of life among Indian information technology workers: an exploratory study. IDJ 62:132-136:2012.
- P Kalyana Chakravarthy, Shashidhar Acharya. Efficacy of Extrinsic Stain Removal by Novel Dentifrice Containing Papain and Bromelain Extracts. Journal of Young Pharmacists, 4, 245-249, 2012.
- Addala Lakshmi, Sadhnani Muralidhar, CH Kalyan, Addala Pavan, Pentapati Kalyana, Vasala Anjaneyulu, Jamil Kaiser. Cyclooxygenase-2)765G>C functional promoter polymorphism and its association with oral squamous cell carcinoma, Journal of investigative and clinical dentistry, 3, 182-188, 2012.
- Lakshmi Addala, Kalyana Chakravarthy Pentapati, Parvathi Kumara Reddy Thavanati, Anjaneyulu V, Sadhnani. Risk Factor Profiles Of Head And Neck Cancer Patients Of Andhra Pradesh, Indian Journal of cancer, 49, 2012, 215-219.



- 6. Pratibha PK, Prerna J, Meena AK, Bhat KM, Chakravarthy PK, Bhat GS. Association of Recurrent Aphthous Ulcers With Stress Among Students In An Indian Dental Institution. National Journal of Integrated Research in Medicine 2012; 3(3): 141-147.
- Meena Anand Kukkamalla, Giliyar Subraya Bhat, Kalyan Chakravarthy Pentapati & Ruchika Goyal. Antiplaque Efficacy of Lemongrass Oil Mouthwash – An in-vitro Study. Global Journals of Medical Research. Vol XII, Issue VII, 2012, 19-23
- 8. Santosh Kumar, Priyanka Jayaswal, Kalyana Chakravarthy Pentapati, Ashima Valiathan, Nidhi Kotak. Investigation of transmigrated canine in orthodontic patient population. Journal of Orthodontics. 2012;39:89-94.
- 9. Chakravathy PK, Chenna D, Chenna V. Association of anthropometric measures and dental caries among a group of adolescent cadets of Udupi district, South India. Eur Arch Paediatr Dent. 2012;13(5):256-60.
- 10. Santosh Kumar, Ashima Valiathan, Pawan Gautam, Kalyana Chakravarthy Pentapati, Priyanka Jaiswal. An evaluation of the Pi analysis in the assessment of anteroposterior jaw relationship. Journal of Orthodontics. 2012;39:262-269.
- 11. Deepak Kumar Singhal, Socioeconomic Status and oral health in India a critical review, IJDS, 4, 2012, 101-104
- 12. Shashidhar Acharya, Kalyana Chakravarthy Pentapati, Nishu Singla, Undergraduate research students perspective from an Indian dental school, Manipal Odontoscope, 4, 2012, 6-9.
- 13. Kalyana Chakravarthy Pentapati, Shashidhar Acharya. Oral Health related quality of life as a predictor for caries experience and SiC Index, Manipal Odontoscope, 4, 2012, 10-14
- 14. Thippeswamy HM, Kalyana Chakravarthy Pentapati, Oral Hygiene practices and dental caries among 5, 12 and 15 year old schools children of Davangere district, Manipal Odontoscope, 4, 2012, 18-23.

- 1. Pentapati KC, Acharya S, Bhat M, Rao SK, Singh S. Knowledge of dental decay and associated factors among pregnant women: a study from rural India. Oral Health Prev Dent. 2013;11:161-8.
- 2. Kumar S, Pentapati KC. Effect of low pull headgear on head position. Saudi Dent J. 2013;25:23-7.
- 3. Chakravarthy PK, Suresh G, Chenna D, Chenna V. Relationship between anthropometric measures and dental caries among adolescent National Cadets Corps of Udupi district, south India. J Nat Sci Biol Med. 2013;4:167-70.



- 4. Pentapati KC, Acharya S, Bhat M, Krishna Rao SV, Singh S. Oral health impact, dental caries, and oral health behaviors among the National Cadets Corps in South India. J Investig Clin Dent. 2013;4:39-43.
- 5. Acharya S, Pentapati KC, Bhat PV. Dental neglect and adverse birth outcomes: a validation and observational study. Int J Dent Hyg 2013;11:91-8.
- 6. Chakravarthy KP, Thippeswamy HM, Kumar N, Chenna D. Relationship of body mass index and dental caries with oral health related quality of life among adolescents of Udupi district, South India. Eur Arch Paediatr Dent. 2013;14:155-9.
- 7. Kukkamalla MA, Pentapati KC, Suresh G, Goyal R, Cornelio SM. Smoking reinitiation after cessation program: Comparison of associated factors between young and older adults. J Nat Sci Biol Med. 2013;4:440-4.
- 8. Pentapati KC, Acharya S, Bhat M, Krishna Rao SV, Singh S. Oral Health-related Quality of Life and Associated Factors in National Cadets Corps of Udupi District, India. World J Dent 2013;4:81-85.
- Kollu S, Hedge V, Pentapati KC. Efficacy of Chlorhexidine in Reduction of Microbial Contamination in Commercially Available Alginate Materials – In-Vitro Study. Global J Med Res (Microbiology and Pathology) 2013;13:19-23.
- 10. Pentapati KC, Acharya S, Bhat M, Krishna Rao SV, Singh S. Oral Health Related Quality of Life as a predictor for Caries experience and SiC index- An exploratory study. J Dental, Oral and Craniofacial Epidemiology. 2013;1:10-14.
- 11. Praveena S, Thippeswamy HM, Nanditha K, Pentapati KC. Relationship of Oral Hygiene Practices and Dental Caries among School Children of Sullia Taluk, Karnataka, South India. Global J Med Res Dent Otolaryngology. 2013;13:9-13.
- 12. Singla R and Singla N. "Dentists: are they the first informers". Guident Dental Journal 2013; 6(3):82-3.
- 13. Singla R, Singla N, Madhumitha N., Vijay R. Naik. North Karnataka patients' expectations of orthodontic treatment A questionnaire study. E journal of Dentistry 2013; 3(1):318-25.
- 14. Singla R, Madhumitha N., Singla N. Management of Impacted Maxillary Canine Two Case Reports. Guident Dental Journal 2013; 6(6):42-8.
- 15. Singla R, Madhumitha N., Singla N. Management of Deep Overbite A Case Report. Guident Dental Journal 2013; 6(9):40-4.
- Singla R, Madhumitha N., Singla N. Management of Class I malocclusion with unilateral first premolar extractions – A Case Report. Journal of Dentofacial Sciences; 2013; 2(3):51-4.



- 17. Nishu Singla and Ritesh Singla. Oral health care during pregnancy An overview. Guident Dental Journal 2013; 6(10):82-3.
- 18. Nishu Singla and Ritesh Singla. "Oral health care in aging: A Review". Guident Dental journal 2013; 12(6): 64-67.
- 19. Sandeep Kumar, Shashidhar Acharya, Prashant Mishra, Nitai Debnath, Ram Prasad Vasthare. Prevalence and risk factors for dental erosion among 11- to 14-year-old school children in South India. Journal of Oral Science, Vol. 55, No. 4, 329-336, 2013
- 20. Hathiwala S, Acharya S, Bhat PV, Patil S. Efficacy of G32 in Treating Pregnancy Gingivitis A Randomised Controlled Trial. International Journal of Ayurvedic Medicine, 2013, 4(1), 48-56.
- 21. Siddharth Mehta, Anjali Mehta, Surendra Lodha, Arun Urala, Deepak Singhal. Arch wire organizer: Best from waste. Manipal Odontoscope.2013, volume 5: 56-58
- 22. Ram Prasad Vasthare Prabhakar. A Bird's Eye View Of International Organization For Standardization [ISO] - A Review IJCD APRIL, 2013 Issue 4(1) Int. Journal of Contemporary Dentistry.

- S.G. Khatri, S. Acharya and S.R. Srinivasan Mothers' sense of coherence and oral health related quality of life of preschool children in Udupi Taluk. Community Dent Health; Volume 31 Number 1 March 2014: p 32-36
- 2. Samuel Raj S, Vijendra Prabhu, Subhash Chandra, Shalini Koshy, Shashidhar Acharya, Krishna Kishore Mahato. Proc. of SPIE Vol. 8929 892903-8. Lasers in Dentistry XX, edited by Peter Rechmann, Daniel Fried, Proc. of SPIE Vol. 8929, 892903 · © 2014 SPIE·
- Chaitanya Tellapragada, Vandana Kalwaje Eshwara, Shashidhar Acharya, Parvati Bhat, Asha Kamath, Shashidhar Vishwanath, and Chiranjay Mukhopadhyay. Prevalence of Clinical Periodontitis and Putative Periodontal Pathogens among South Indian Pregnant Women. Volume 2014, Article ID 420149.
- Kumar YS, Acharya S, Pentapati KC. Prevalence of dental pain and its relationship to caries experience in school children of Udupi district. Eur Arch Paediatr Dent. 2014 Mar 29
- 5. Kumar S, Acharya S, Vasthare R, Singh SK, Gupta A, Debnath N. Dental caries experience in high risk soft drinks factory workers of South India: A comparative study. Indian J Dent Res 2014;25:174-7.



- 6. Kumar S, Kumari M, Acharya S, Prasad R. Comparison of surface abrasion produced on the enamel surface by a standard dentifrice using three different toothbrush bristle designs: A profilometric in vitro study. J Conserv Dent 2014;17:369-73.
- 7. Singla N, Acharya S, Martena S, Singla R. Effect of oil gum massage therapy on common pathogenic oral microorganisms A randomized controlled trial. J Indian Soc Periodontol 2014;18:441-6.
- 8. Srinivasan-Raj Samuel , Sachin-G. Khatri , Shashidhar Acharya. Clinical Evaluation of self and professionally applied desensitizing agents in relieving dentin hypersensitivity after a single topical application: A Randomized Controlled Trial. J Clin Exp Dent. 2014;6 (4):e339-43.
- 9. Acharya S, Pentapati KC, Acharya S. Socioeconomic mobility and tobacco consumption patterns in fish industry workers in Udupi District of coastal Karnataka. Indian J Dent Res 2014;25:653-6.
- 10. Sravan Kumar Y, Shashidhar Acharya, Kalyana Chakravarthy Pentapati. Dental pain as the predictor for caries experience among school children of Udupi district, south India. Global Journal of Medicine and Public Health 2014;3(4):1-4.
- 11. Kalyana Chakravarthy Pentapati, Shashidhar Acharya, Sravan Kumar Yeturi. Unmet restorative treatment needs among orphanage children of Uttara Kannada District. Journal of education and ethics in dentistry. 2014;4(2):65-68.
- 12. Arun Singh Thakur, Shashidhar Acharya, Deepak Singhal, Nivedita Rewal, Nanika Mahajan, Bhanu Kotwal. A Comparative Study of Mutans Streptococci and Lactobacilli in Mothers and Children with Early Childhood Caries (ECC), Severe Early Childhood Caries (S-ECC) and Caries Free Group in a Low Income Population. OHDM Vol. 13 No. 4 November, 2014
- 13. Nishu Singla, Shashidhar Acharya, Kalyana Chakravarthy, Deepak Singhal, Ritesh Singla. Role of patients' socioeconomic status, knowledge and attitude towards dental care on their treatment preference for Root Canal treatment versus Extraction. e-Journal of Dentistry Jul Sep 2014 Vol 4 Issue 3. 630-636
- 14. Deepak Kumar Singhal, Shashidhar Acharya, Kriti Sharma. Knowledge and attitude of dental students towards HIV/AIDS patients: A questionnaire survey. Journal Of International Academic Research For Multidisciplinary. Vol 2, Issue 3, April 2014. 703-711
- 15. Abhay Taranath, Deepika Pai, Kalyan Chakravarthy. The role of casein phosphopeptide-amorphous calcium phosphate products in remineralization of incipient enamel lesions and its substantivity. J Exp Integr Med 2014; 4(1):67-70.



- 16. Kalyana Chakravarthy Pentapati, Neeraja Sabnis, Bharatbhushan Shrikhande, Ramnaresh Kashyap, Meena Anand Kukkamalla. Stain Removal Efficacy of Herbal Mouth Rinses Containing Sodium Hexametaphosphate. Journal of Research in Medical Education & Ethics. 2014;4(2):165-170.
- 17. Saurabh Kumar, Runki Saran, Kalyana Chakravarthy Pentapati. General Anaesthesia in Paediatric Dentistry An Institutional Experience. Global Journal of Medical research Dentistry and Otolaryngology. 2014;14(6):43-46.
- 18. Acharya S, Pentapati KC, Singhal DK, Thakur AS, Acharya S. Development and Validation of a Socio-Dental Impact Locus of Control (SILOC) Scale. J Psychol Psychother 2014;4: 151.
- 19. Srikanth Gadicherla, Abhay T Kamath, Cariappa K Muthanna, Manish Bhagania, Kalyana C Pentapati. Hemodynamics during intravenous conscious sedation: an institutional experience. Egyptian Journal of Oral & Maxillofacial Surgery 2014;5:1–3.
- 20. Praveena S, Thippeswamy HM, Nanditha K, Kalyana Chakravarthy P. Relationship of Oral Hygiene Practices and Dental Caries among School Children of Sullia Taluk, Karnataka, South India. Global Journal of Medical research Dentistry and Otolaryngology. 2013;13(2):9-13.
- 21. Nishu Singla, Shashidhar Acharya, Ritesh Singla, Deepak Singhal. Prevalence of needle stick injury among the nursing personnel in an Indian medical hospital: A cross sectional survey. Journal of International Academic Research for Multidisciplinary 2014;1(12):449-459.(Jan)
- 22. Anchal Goel, Ritesh Singla, Nishu Singla. Evaluation Of Impact On Daily Performances in Patients Wearing Fixed Orthodontic Appliances. Journal of International Academic Research for Multidisciplinary 2014;1(12):693-701.(Jan)
- 23. Nikhil Patil, Ritesh Singla, Nishu Singla. Pain Perception Due To Orthodontic Seperators with and without Diclofenac Mouthwash. Journal of International Academic Research for Multidisciplinary 2014;2(2):475-486.
- 24. Nishu Singla and Ritesh Singla. Green Dentistry-A Revolution: A review. Guident Dental Journal 2014;7(4):86-87.
- 25. Deshpande S, Narayan T, Ankit Jha, Ram Prasad VP. Assessment of the advocacy of oral hygiene and oral health related practices amongst dental professionals in Udupi taluk, Karnataka State, India. January 2014, Indian Dentist Research and Review. pg 52-56
- 26. Narayan T, Deshpande S, Jha A, Ram Prasad VP. Punica granatum (Pomegranate) fruit and its relevance in oral hygiene. IOSR Journal of Dental and Medical Sciences (IOSR JDMS) Vol 13, Issue 8, Ver IV Aug 2014, pg 29-34



- 27. Deshpande S, Siddarth K. Jha A, Saraswat S, Saleh S, Ram Prasad VP. Assessment of the impact of the workplace environment on oral cancer awareness amongst high risk, semi urban blue collared personnel. IOSR Journal of Dental and Medical Sciences (IOSR- JDMS) Volume 13, Issue II Nov 2014, pg 41-45.
- 28. Sandeep Kasana, Ritesh Singla, Nishu Singla. Assessment of External root resorption

 A radiographic study. E journal of dentistry 2014; 4(1): 545-556.
- 29. Bhattacharjee R1, Nekkanti S, Kumar NG, Kapuria K, Acharya S, Pentapati KC. Efficacy of triphala mouth rinse (aqueous extracts) on dental plaque and gingivitis in children. J Investig Clin Dent. 2014 May 22. doi: 10.1111/jicd.12094.
- 30. S Acharya, KC Pentapati, DK Singhal, AS Thakur. Development and validation of a scale measuring the locus of control orientation in relation to socio-dental effects. Eur Arch Paediatr Dent. 2014.
- 31. Anirudha Agnihotry, Karanjot S. Gill, Deepak Singhal, Zbys Fedorowicz, Sambit Dash, Vinicius Pedrazzi. A Comparison of the Bleaching Effectiveness of Chlorine Dioxide and Hydrogen Peroxide on Dental Composite. Brazilian Dental Journal (2014) 25(6): 524-527
- 32. Deepak Kumar Singhal. Dental caries experience among 3-5 years old pre-school children in Udupi Taluk, Karnataka, India. E-Journal of Dentistry Oct Dec 2014 Vol 4 Issue 4. 671-676

Details conference presentations:

- 1. P Kalyana Chakravarthy. Do pregnant women have the knowledge about the implications of dental caries? : a study from rural India at 65th Indian Dental Conference, Mumbai (9th -12th Feb 2012).
- 2. Ram Prasad VP. Geriatric Oral Health Concerns at 65th Indian Dental Conference, Mumbai (9th -12th Feb 2012).
- 3. Deepak Kumar Singhal. Socio-demographic, Psychological and self-reported oral health factors influencing preventive dental behavior in adults, at 65th Indian Dental Conference, Mumbai (9th -12th Feb 2012).
- 4. P Kalyana Chakravarthy. Stain Removal Efficacy of Novel Dentifrice Containing Papain and Bromelain Extracts randomized controlled trial presented in IDEM conference, Singapore (20th 21st April 2012).
- 5. Nishu Singla. Lifestyle factors affecting the periodontal health status of adult population attending dental outreach centers of Udupi taluk in International conference on Environmental and Occupation Health. (20-22nd Dec 2012).



- 6. Deepak Kumar Singhal. Ergonomics in dental practice in International conference on Environmental and Occupation Health. (20-22nd Dec 2012).
- 7. Ram Prasad VP. Significance of Dental education environment in the institution and countries of south East Asia. International Association for Dental research- South East Asian Division 1-4th November 2012 Hong Kong.
- 8. Deepak Kumar Singhal. Oral Health status of preschool children and their mother's oral health-related knowledge, attitude and practices in Udupi taluk 17th IAPHD, at Chennai. (23rd-22th Nov 2012).
- 9. Ram Prasad VP. ISO Points to consider at 17th IAPHD, in Chennai. (23rd-22th Nov 2012).

- P Kalyana Chakravarthy Relationship of body mass index and dental caries with oral health related quality of life among adolescents of Udupi district, South India. APDC Malaysia 2013
- 2. P Kalyana Chakravarthy Stain Removal Efficacy of Herbal Mouth Rinses Containing Sodium Hexametaphosphate. IADR APR 2013 Thailand.
- Dr. Shashidhar Acharya. 'Factors affecting oral health among post-partum women in South India' at the UAE International Dental Conference & Arab Dental Exhibition. AEEDC Dubai, 5th -7th February 2013
- Dr. Shashidhar Acharya. Presented an Oral Presentation- Socioeconomic mobility and tobacco consumption patterns in fish industry workers. FDI World Dental Congress at Istanbul, Turkey, 28-31st August 2013.
- 5. Dr. Deepak Kumar Singhal. "Prevalence and clinical consequences of untreated dental caries using pufa index among school children in Udupi taluk, India" at XVIII National Conference of Indian Association of Public Health Dentistry in Sardar Patel Post Graduate Institute of Dental and Medical Sciences, Lucknow, 22nd 24th Nov 2013
- 6. Dr. Ram Prasad V. P. "Use of Fagerstrom Addiction Scale amongst Outpatients of Udupi Taluk, a Cross Sectional Study." at the International Conference on Public Health Priorities in the 21st Century: The endgame for Tobacco, September 10-12, 2013., New Delhi, India.



- P Kalyana Chakravarthy Unmet Restorative Treatment Needs Among Orphanage Children of Uttara Kannada District FDI AWDC, New Delhi (11th -14th September 2014)
- Nishu Singla 'Effect of oil gum massage therapy on common pathogenic oral microorganisms – A Randomised controlled trial' at 36th Asia Pacific Dental Congress Held on 17-19 June 2014at Dubai, United Arab Emirates.
- 3. Shashidhar Acharya. Attended the IADR/AMER General Session & Exhibition, and presented the following research: 'The Development of a Sociodental Impacts Locus of Control Scale' at Cape Town, South Africa, June 23-28, 2014.
- 4. Shashidhar Acharya presented a draft plan for "Addressing oral cancer and Tobacco cessation in Dental Practice" during the formulation of an Action Plan for Promoting Oral Health & Surveillance in the South-East Asia Region, conducted by WHO in association with AIIMS, New Delhi on 27 28 October 2014.
- 5. Dr. Deepak Kumar Singhal. "Assessment of KAP among mothers of 3-5 years old school children in Udupi Taluk" at 7th International Dental Students and 1st Dental Surgeons Congress Conference held at Kala Academy, Goa, India on 28th and 29th March 2014
- Dr. Deepak Kumar Singhal. "Dental neglect and oral health of preschool children in Udupi taluk, India" at FDI Annual World Dental Congress 2014, in New Delhi from 11-14th Sep 2014.

12. Placement record of the past students and the contribution of the department to the student placements

| S.No | Year of passing | Name of the | Institution where employed |
|------|-----------------|------------------|--------------------------------|
| | postgraduate | student | |
| | course | | |
| 1 | April 2012 | Sandeep Kumar | Aurobindo Dental College, |
| | | | Indore |
| 2 | April 2012 | Nishu Singla | Manipal College of Dental |
| | | | Sciences, Manipal, Karnataka |
| 3 | April 2013 | Siddhi Hathiwala | Rungta College of Dental |
| | | | Sciences and Research, Bhilai, |
| | | | Chhattisgarh |
| 4 | April 2013 | Snehal Patil | School of Dental Sciences, |
| | | | Karad, Maharashtra |



| 5 | April 2014 | Samuel Raj | Thai Moogambigai Dental |
|---|------------|---------------|------------------------------|
| | | | College, Dr. MGR University, |
| | | | Chennai |
| 6 | April 2014 | Sachin Khatri | Government Dental College, |
| | | | Nagpur |

13. Plan of action of the department for the next five years

- To host IAPHD national conference in November 2015
- Increase in health promotional and research activities
- Increase in local and international tie ups
- Increase in the number of publications from the Department
- To acquire extramural funds for research
- To establish Tobacco Cessation Centre at MCODS, Manipal



ORAL PATHOLOGY AND MICROBIOLOGY

1. Faculty profile - adequacy and competency of faculty:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name | Qualification | Designation | Experience in |
|-----|----------------------|---------------|---------------|-------------------------------|
| No. | | | | years (As of 31 st |
| | | | | December 2014) |
| 1 | Dr. Monica Charlotte | MDS | Professor and | 18 |
| | Solomon | | Head | |
| 2 | Dr. Nirmala N Rao | MDS | Professor | 24 |
| 3 | Dr. Raghu A.R | MDS, PhD | Professor | 17 |
| 4 | Dr. Sunitha Carnelio | MDS | Addl. Prof. | 16 |
| 5 | Dr. Chetana | MDS | Assoc. Prof. | 07 |
| | Chandrashekar | | Assoc. 1101. | |
| 6 | Dr. Ankur Kaur | MDS | Asst. Prof. | 03 |
| | Shergill | | Asst. FIUI. | |

| Category | Sanctioned (as per DCI) | Filled |
|----------------|-------------------------|--------|
| Teaching staff | 5 | 6 |
| Lecturer | - | - |

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programs during the past three years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as objective a manner.



Courses:

- BDS Changes include planning and execution of revised practical manual for Dental Anatomy, Oral Histology and Oral Pathology
- MDS Changes in periodic assessment and feedback were designed and implemented
- PG Diploma in Dental Materials Changes include planning of project work and successful completion

4. Trends in the success and drop-out rates of students during the past three years:

| Course | Pass Percentage (%) | Dropout Rate | | e |
|---------|---------------------|--------------|-----------|-----------|
| | 2012-2013 | 2013-2014 | 2012-2013 | 2013-2014 |
| I BDS | 100 | 97 | 0 | 0 |
| III BDS | 95 | 99 | 0 | 0 |
| MDS | 100 | 100 | 0 | 0 |

5. Learning resources of the departments - library, computers, laboratories and other resources:

| Description of resource | Numbers |
|--------------------------|---------|
| Clinic | 01 |
| Demonstration laboratory | 01 |
| Museum | 01 |
| Research laboratory | 01 |
| Reporting room | 01 |
| Seminar Room | 01 |
| Library books | 117 |
| E books | 05 |
| Internet points | 06 |
| Computers | 03 |
| Multi viewing microscope | 01 |
| Image Proplus | 01 |

6. Modern teaching methods practiced and use of ICT in teaching – learning:

- Audio visual aids such as LCD projectors are being used.
- Objective structured practical examination (OSPE) for undergraduates
- Tutorials and assignments for undergraduate students



Demonstration of carving of tooth morphology

7. Participation of teachers in academic and personal counseling of students

- Mentoring all the undergraduate and post graduate students
- Teacher Guardian scheme for Year I students.
- Periodic monitoring of attendance and assessment of assigned work
- Academic counseling at the end of each session for under graduate students
- Members of counsel of college committee
- Members of the board of studies
- Panel of internal and external examiners
- Preparation of quality policy and institutional enhancement activities

8. Details of faculty development programmes and teachers who have been benefited during the past three years

| S. | Title of the programme and Details | Attended by |
|----|---|------------------------------|
| No | | |
| 1 | "An approach to the diagnosis of salivary gland | Dr. Raghu AR |
| | tumors". AECS Maaruti College of Dental Sciences and | |
| | Research Center. 17 th Mar 2012 | |
| 2 | "Teacher as Leader" Manipal Center for Professional | Dr. Monica Solomon, Dr. |
| | and Personal Development. 22 nd March 2012 | Raghu AR, Dr. Sunitha C, Dr. |
| | | Chetana C. |
| 3 | Workshop in Oral Pathology. AB Shetty Memorial | Dr. Monica Solomon, Dr. |
| | Institute of Dental Sciences, Mangalore. 30-31 March, | Raghu AR, Dr. Sunitha C, Dr. |
| | 2012 | Chetana C. |
| 4 | "Medical Writing" Department of Medicine. KMC | Dr. Monica Solomon, Dr. |
| | Manipal 16-17 June 2012 | Sunitha Carnelio |
| 5 | "Search" Manipal Center for Professional and Personal | Dr. Raghu AR |
| | Development. 28 th Aug. 2012 | |
| 6 | CDE Programme on Sign-Outs Every Report Counts at | Dr. Nirmala N Rao, Dr. |
| | MCODS Manipal on 15th Dec. 2012 | Monica C Solomon, Dr. Raghu |
| | | AR, Dr. Sunitha C, Dr. |
| | | Chetana C, Vimi S, Ankur S |
| 7 | Continuing Dental Education programme on | Dr Nirmala N Rao, |



| | "Periodontal Medicine" organized by Department of | |
|---|---|------------------|
| | Periodontology, Manipal College of Dental Sciences, | |
| | Manipal on 1 st Sep 2012 | |
| 8 | CME on /forensic Odontology "Tooth do Tell Tales" an | Dr Nirmala N Rao |
| | aid in forensic investigation held on 3 rd March 2012 at | |
| | Department of Medical Education, KMC Mangalore | |
| 9 | Manipal University HR Workshop on "Leadership | Dr Nirmala N Rao |
| | Transformation Programme" MU, Manipal, on | |
| | November 23-24, 2012 | |

| S. | Title of the programme and Details | Attended by |
|----|---|-------------------------------|
| No | | |
| 1 | Excellence in Dental Research on 16-11-2013 at Manipal | Dr. Monica C Solomon Dr. |
| | | Nirmala N Rao, Dr. Sunitha C, |
| | | Dr. Chetana C, Dr. Ankur |
| | | Kaur Shergill |
| 2 | First Mid-term conference of IAOMP that was held from | Dr. Monica C Solomon. |
| | January 24-26,2013 at Chennai | Dr. Raghu AR, Dr. Chetana C |
| 3 | XXII National Conference of IAOMP, Mumbai, 8-10 | Dr. Monica C Solomon. |
| | Nov, 2013 | Dr. Raghu AR, Dr. Chetana C, |
| | | Dr. Ankur Kaur Shergill |
| 4 | 3rd Annual Conference of Karnataka State Chapter of | Dr. Sunitha Carnelio, Dr. |
| | AOMSI, March 7th – 9th 2013. | Ankur Kaur Shergill |
| 5 | Continuing Dental Education programme on "Towards | Dr Nirmala N Rao |
| | success in Dental Research -Need for Best Practices" | |
| | organized by Department of Public Health Dentistry, | |
| | Manipal College of Dental Sciences, Manipal on 6 th July | |
| | 2013 | |

| S. | Title of the programme and Details | Attended by |
|----|---|----------------------------|
| No | | |
| 1 | Mini Workshop for Postgraduate Dissertation Guides by | Dr. Chetana Chandrashekar, |
| | Manipal Unit of UNESCO Chair in Bioethics: at | Dr. Monica C Solomon |



| | Kasturba Medical College, Manipal University, Manipal | |
|---|---|---------------------------|
| | on 7th June 2014. | |
| 2 | Master Class Series: An Eclectic Patho med Rendezvous | Dr. Chetana Chandrasekhar |
| | at MS Ramaiah Dental College, Bangalore on 14th and | |
| | 15th March 2014. | |
| 3 | National workshop on "Design" conducted by MCPD | Dr. Monica C Solomon Dr. |
| | on 17th and 18th of February 2014 | Chetana chandrashekar |
| 4 | XXIII National Conference of IAOMP, Bangalore, Nov, | Dr. Nirmala N Rao |
| | 2014 | |
| 5 | CPD Program - "Systematic Review and meta-Analysis | Dr Nirmala N Rao |
| | on 22-23 August 2014 by department of | |
| | Periodontology, MCODS, Manipal. | |
| 6 | CPD Diagnosis and ethics - a straddle for Oral Cancer | Dr. Monica C Solomon Dr. |
| | care on13-12- 2014 Organized by Department of Oral | Chetana chandrashekar Dr |
| | Pathology Manipal College of Dental Sciences Manipal | Nirmala N Rao, Dr. Sunita |
| | | Carnelio, Dr. Ankur |

9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research

Teaching:

- Entire faculty is involved in teaching undergraduate and postgraduate students
- Setting question papers of Manipal university and other universities
- Writing articles for national as well as international journals.
- Contributing chapters in books.
- Presenting scientific papers in national and international annual conferences.
- Guest speakers for national conferences.
- Examiners for undergraduate and post-graduate examinations of other universities.

Consultancy:

- Faculty members are actively involved in biopsy reporting
- Diagnosis of oral and orofacial diseases and disorders
- Board of studies: Chairperson and members
- Writing oral health related articles in Newspapers and magazines for the general public



Research by faculty

2012

| S. | Title | Faculty Involved |
|-----|---|--------------------|
| No. | | |
| 1. | Evaluation of multiple markers for prognostication of locally | Dr. Monica Solomon |
| | advanced oral squamous cell carcinoma | |
| 2. | Evaluation of Proliferative verrucous leukoplakia utilizing | Dr. Raghu AR, |
| | immuno markers | Dr. Monica Solomon |
| 3. | The role of Ki-67, CD34, MMP-2, MMP-9 in cystic | Dr. Sunitha C, |
| | ameloblastoma | Dr. Chetana C |
| 4. | Clincopathological correlation of recurrent and non-recurrent | Dr. Raghu AR, |
| | odontogenic keratocyst | Dr. Chetana C |

2013

| S. | Title | Faculty Involved | |
|-----|---|----------------------|--|
| No. | | | |
| 1. | Evaluation of multiple markers for prognostication of locally advanced oral squamous cell carcinoma | Dr. Monica Solomon | |
| 2 | Assessing the pathogenicity of Candida Species | Dr. Sunitha Carnelio | |

2014

| S. | Title | Faculty Involved | |
|-----|---|----------------------|--|
| No. | | | |
| 1. | Evaluation of multiple markers for prognostication of locally advanced oral squamous cell carcinoma | Dr. Monica Solomon | |
| 2. | Assessing the pathogenicity of Candida Species | Dr. Sunitha Carnelio | |

10. Collaboration with other departments/ institutions, at the State, National and international levels and their outcome during the past three years

| Collaborations | Project | Outcome |
|---------------------|--|----------|
| Radiation Oncology, | Evaluation of multiple markers for | PhD Work |
| KMC Manipal | prognostication of locally advanced oral squamous cell carcinoma | |



| Surgical Oncology | Assessment of surgical margins in head | Faculty Project |
|-------------------|---|-----------------|
| | and neck cancer | |
| ART Center, Govt. | Candida carriage in HIV subjects | MDS Project |
| Hospital, Udupi | | |
| General Medicine | Candidal virulence in Type II Diabetics | MDS Project |

| Collaborations | Project | Outcome | |
|--------------------------|--|---------------|--|
| Radiation Oncology, | Evaluation of multiple markers for | PhD Work | |
| KMC Manipal | prognostication of locally advanced oral | | |
| | squamous cell carcinoma | | |
| Microbiology, KMC | Microbiology studies on candida species | Research work | |
| Manipal | | | |
| Clinical Oral Pathology, | Potentially Malignant Lesion | Post-Doctoral | |
| University of Sheffield | | Fellowship | |

2014

| Collaborations | Project | Outcome | |
|--|--|---------------|--|
| Radiation Oncology, | Evaluation of multiple markers for | PhD Work | |
| KMC Manipal | prognostication of locally advanced oral | | |
| | squamous cell carcinoma | | |
| Microbiology Microbiology studies on candida species | | Research work | |
| KMC Manipal | | | |
| Clinical Oral Pathology | Potentially Malignant Lesion | Post-Doctoral | |
| University of Sheffield | | Fellowship | |

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past three years:

- Evaluation of biomarkers in potentially malignant oral disorders and oral cancer
- Saliva as a diagnostic tool in Diabetes mellitus and HIV
- Assessment of tumor progression in oral cancer
- Validation work on fibro osseous lesions
- Morphometric analysis of tumor cells in oral cancer
- Microbiology studies on candida species



Ongoing:

| Category | Number |
|------------------------------|--------|
| Funded research projects | 02 |
| Non-funded research projects | 01 |
| PhD research projects | 01 |
| PG research projects | 05 |
| UG research projects | 02 |

Last 3 years (2013-2014)

| | | 2012 | 2013 | 2014 |
|--|---------------|------|------|------|
| Completed funded research projects | | 01 | 02 | 03 |
| Completed non-funded research projects | | 02 | 01 | - |
| Completed PhD research projection | cts | - | - | - |
| Completed PG research project | ts | 02 | 03 | 03 |
| Completed UG research project | ts | - | - | - |
| Publications | International | 05 | 12 | 19 |
| | National | 10 | 04 | 03 |
| Books | | - | 01 | - |
| Chapters in books | | | 01 | - |
| Conference presentations/ | International | 04 | 02 | - |
| Invited lectures | National | 07 | 05 | 16 |

Ongoing PG projects:

| S. | Title | Name of the | Guide |
|-----|---|--------------|-------------|
| No. | | student | |
| 1. | An Immunohistochemical study on assessment of | Dr. Hari | Dr. Sunitha |
| | Rascin – 1 expression in ameloblastoma" | Shankar | Carnelio |
| 2. | "To Study the Expression of Fibronectin in severe | Dr. Jasleen | Dr. Nirmala |
| | dysplasia, Early invasive carcinoma and oral | Grover | N Rao |
| | squamous cell carcinoma: An immuno- | | |
| | histochemical appraisal | | |
| 3. | Elucidating the role of Cyclooxygenase-2 in | Dr. Pratyush | Dr. Monica |
| | Pathogenesis of Oral Lichen Planus -An | Singh | Solomon |
| | Immunohistochemical and Histochemical Analysis | | |



| 4. | Expression of ERCC1 in oral squamous cell | Dr Deepthi | Dr Monica | |
|----|---|------------|------------|--|
| | carcinoma- An immunohistochemical analysis | pankaj | Charlotte | |
| | | Solomon | | |
| 5. | Estimation of L-detyrosinated tubulin in oral | Dr Neha | Dr Sunitha | |
| | squamous cell carcinoma- an immunohistochemical | Agarwal | Carnelio | |
| | study | | | |

Completed PG projects:

2012

| S. | Title | Name of the | Guide |
|-----|---|-------------|--------------|
| No. | | student | |
| 1 | MMP-2 and MMP-9 as predictive indicators in early | Aparna | Dr. Raghu AR |
| | tongue squamous cell carcinoma | Menon | |
| 2 | Expression of S100A4 in oral squamous cell | Jayalakshmi | Dr. Raghu AR |
| | carcinoma | | |

2013

| S. | Title | Name of the | Guide | |
|-----|--|-------------|---------------|--|
| No. | | student | | |
| 1 | Oral Candidal Speciation and Fluconazole | Parul Sah | Dr. Raghu AR | |
| | Susceptibility in HIV Patients | | | |
| 2 | Expression of cyclooxygenase – 2 in different grades | Aditi Amit | Dr. Monica | |
| | of oral squamous cell carcinoma – An | Byatnal | Solomon | |
| | immunohistochemical study | | | |
| 3 | A study on expression of osteocalcin in neoplastic and | Aatish | Dr. Nirmala N | |
| | fibro osseous lesions of jaw bones | Thennavan | Rao | |

| S. | 2014 | Name of the | Guide | | |
|-----|---|--------------|--------------|--|--|
| No. | | student | | | |
| 1 | Assessment of proliferative potential of tumor cells | Mahima | Dr. Monica | | |
| | using morphometric analysis and Ki-67 expression of | Rakheja | Solomon | | |
| | prognostication of oral squamous cell carcinoma | | | | |
| 2 | Oral Candidal speciation, virulence and antifungal | Pratik Patel | Dr. Raghu AR | | |
| | susceptibility in asymptomatic type 2 diabetes Mellitus | | | | |



| 3 | Expression | of | Epithelial | cell | adhesion | molecule | Subhalakshmi | Dr. | Sunitha |
|---|------------|---|------------|------|----------|----------|--------------|-------|---------|
| | (EpCAM) in | (EpCAM) in oral squamous cell carcinoma | | | | | | Carne | elio |

Details of Publications:

- 1. Jiji George, Ramandeep Singh Narang, Nirmala N Rao, Stromal response in different histological grades of oral squamous cell carcinoma: A histochemical study: Indian Journal of Dental Research: vol: 23(6), page no. 842, 2012
- 2. Upadhyay RB, Upadhyay J, Agrawal P, Rao NN. Analysis of gonial angle in relation to age, gender, and dentition status by radiological and anthropometric methods. J Forensic Dent Sci. vol:4(1):Page nos. 29-33, 2012
- 3. Agarwal P, Rao NN. Bisphosphonate-associated osteonecrosis of the jaws. Indian J Dent Res. Vol:23(1):Page nos. 107-11: 2012
- Koshy AV, Rao NN, Kamat SS, Kiswani K, Kapse SC, Shaikh NA. Expression of extracellular matrix-laminin in oral squamous cell carcinoma: an immunohistochemical study. J Contemp Dent Pract. vol1;13(2): page nos. 194-200. 2012
- 5. Juhi Verma, Nirmala N Rao, Ram Ballabh Upadhyay, A Comparative analysis of langerhans cell in oral epithelial dysplasia and ora squamous cell carcinoma using antibody CD-1a: J Cancer Res There. vol 8(4), page no. 591-597; 2012
- Amar A Sholapurkar, Keerthilatha M Pai, Monica C Solomon: Recurrent Exophytic Growth on Maxillary Posterior Edentulous Alveolar Ridge - A Diagnostic Challenge: Dental Update: vol: 39 page no. 286-290, 2012
- Monica Charlotte, Shwetha Rehani, Manna Valiathan, Lakshmi Rao, Raghu A R, Nirmala N Rao, Sunitha Carnelio, Chethana Chandrashekar, Vimi S Mutalik: Benign Cementoblastoma involving Multiple Deciduous and Permanent Teeth of the Maxilla -A case report. Oral & Maxillofical Pathology Journal (OMP): vol – 3 page no. 258, 2012
- 8. Monica Mehendiratta, Shwetha Rehani, Monica C Solomon: The histological spectrum of myxoma, myxofibroma/fibromyxoma and odontogenic fibroma "A chicken and egg situation', IOSR JDMS: vol 1(2): page nos. 3-5, 2012
- 9. Reddy VM, Kamath A, Radhakrishnan RA. p53 immunoprofiling of potentially malignant oral disorders: a case series analysis. Indian J Cancer. 2012Jan-Mar;49(1):27-32.



- 10. Thennavan A, Narayanaswamy V, Niazi TM, Rao L, Radhakrishnan R. Infantile myofibroma eroding into the frontal bone: a case report and review of its histopathologic differential diagnosis. Case Rep Pediatr. 2012;2012:630804.
- 11. Mutalik VS, Shreshtha A, Mutalik SS, Radhakrishnan R. Adenomatoid odontogenic tumor: A unique report with histological diversity. J Oral Maxillofac Pathol. 2012 Jan;16(1):118-21.
- 12. Bose R, Adiga SK, D'Souza F, Salian SR, Uppangala S, Kalthur G, Jain N, Radhakrishnan RA, Bhat N, Krishnamurthy H, Kumar P. Germ cell abnormalities in streptozotocin induced diabetic mice do not correlate with blood glucose level. J Assist Reprod Genet. 2012 Dec;29(12):1405-13.
- 13. Kaur GA, Sivapathasundharam B, Berkovitz BK, Radhakrishnan RA. An erupted odontoma associated with pigmentation: a histogenetic and histological perspective. Indian J Dent Res. 2012 Sep-Oct;23(5):699.
- 14. Gurkiran Kaur, Sunitha Carnelio, Gabriel Rodrigues. An unusal case of oral Leiomyoma mimicking a gingival epulis: RSBO: vol 9(2), Page Nos. 204-206, 2012
- 15. Gabriel Rodrigues, Sunitha Carnelio, Lakshmi Rao. Intraoral Lipoma Masquerading as a Minor Salivary Gland Tumor. Surgery Chron, vol 17(3), page nos. 217-218: 2012

- Aditi Amit Byatnal, Anuradha CK Rao1, Monica C Solomon, Raghu A Radhakrishnan A guise of osteosarcoma: Chondroblastoma-like. Indian Journal of Dental Research, 2013; 24(5): 631
- 2. Shrestha A, Carnelio S, Evaluation of Matrix Metalloproteinases 2 (MMP-2) and Tissue Inhibitors of Metalloproteinases 2 (TIMP 2) in Oral submucous Fibrosis and Their Correlation with Disease Severity, Kathmandu University Medical Journal, 44(4), 274-281, 2013
- 3. Manikkath Aparna, Mukund Gupta, Nandita Sujir, Abhay Kamath, Monica Charlotte Solomon, Keerthilatha M Pai, Raghu Radhakrishnan. Calcifying Odontogenic cyst a rare report of non-neoplastic variant associated with cholesterol granuloma. J Contemporary dental practice 2013;14 (6): 1178-1182.
- Rahman F Rao NN, Tippu S R, Patil S, Agarwal S, Srivastava S The expression of laminin -5 in severe dysplasia/carcinoma in situ and early invasive squamous cell carcinoma: An immunohistochemical study, Minerva Stomatologica 2013 62(5), 139-146



- 5. Parul Sah Abhay Kamath, Chithra Aramanadka, Raghu Radhakrishnan Kimura's disease An unusual presentation involving subcutaneous tissue, parotid gland and lymph node. Journal of Oral and Maxillofacial Pathology 2013 17(3) 455 -459
- Mohit sharma Parul Sah, Sonal Soi Sharma, Raghu Radhakrishnan Journal of Oral and maxillofacial Pathology 2013 Vol 17(2) 240-247
- Pratik Nalinbhai Patel Vimi Sunil Mutalik, Shweta Rehani, Raghu Radhakrishnan Basaloid Squamous cell carcinoma of oral cavity with incongruent clinical course BMJ Case Reports 2013 DOI 10.1136/bcr 2013-200441 4 pages
- Vimi S Mutalik Aparna Menon, N Jayalakshmi, Asha Kamath, A R Raghu Dr.
 Raghu A R Utility of cheiloscopy, rugoscopy, and dactyloscopy for human identification in a defined cohort J Forensic Dent Sci 2013., Vol 5(1) 2-6
- Parul Sah Aditi Amit Byatnal, Lakshmi Rao, Venkadasalapathy Narayanaswamy, Raghu Radhakrishnan, Dr. Raghu A R, Inflammatory Myofibroblastic Tumor: A Rapidly Growing Soft Tissue Mass in the Posterior Mandible Head and neck Pathol 2013 DOI 10.1007/s 12105-013-0474-8
- 10. Subhalakshmi Sen Abhay Kamath, Mukund Gupta, Raghu Radhakrishnan R. A localised soft tissue and bone enlargement in an infant mandible BMJ Case Report DOI: 10.1136/bcr-2013-010291 2013.
- 11. Aatish Thennavan Lakshmi Rao, Raghu Radhakrishnan Polymorphous low –grade adenocarcinoma of maxillary alveolus metastasising to the abdomen: BMJ Case Rep Doi:10.1136/bcr-2013-009633 2013
- 12. A.Ather Hunaiza Ather, Shashi Rashmi Acharya, R A Radhakrishnan Lobodontia: the unraveling of the Wolf Teeth, Romanian Journal of Morphology & Embryology (RJME) 2013; 54(1) 215-217.
- 13. Aditi Byatnal, Jayalakshmi Natarajan, Venkadasalapathy Narayanaswamy Raghu Radhakrishnan, Orthokeratinized odontogenic cyst critical appraisal of a distinct entity Brazilian Journal of Oral Sciences, 2013 12(1) 71-75
- 14. Aparna M Gupta M, Sujir N, Kamath A, Solomon M, Pai K, Radhakrishnan Calcifying odontogenic cyst: a rare report of nonneoplastic variant associated with cholesterol granuloma, Jaypee Brothers Medical Publishers (P) Ltd., 2013; 14(6): 1178-1182
- 15. Parul Sah, Aparna Menon, Asha Kamath, Chetana Chandrashekar, Sunitha Carnelio, and Raghu Radhakrishnan. Role of immuno-markers in the clinicopathological analysis of unicystic ameloblastoma Dis Markers. 2013; 35(5): 481–488.
- 16. Maheshwari P, Chandrashekhar C, Radhakrishnan R.Vascularized mandibular anterior ameloblastoma- An entity still unresolved Minerva Stomatol, 2013, 62(5):183-88.



- 1. Mutalik VS, Nichat P, Carnelio S, Solomon M, Radhakrishnan R. Clear cell variant of calcifying epithelial odontogenic tumor without calcification: a rarity. J Contemp Dent Pract. 2014 Jan 1;15(1):119-21.
- Monica Charlotte Solomon, MS Vidyasagar, Donald Fernandes and Vasudev Guddattu. Clinico-Pathological Correlation of the Expression of Cyclin D1 and Bcl-2 in Oral Squamous Cell Carcinomas -A Tissue Microarray Study. Int J Scientific research. 3 (2) 361-365. 2014;
- 3. Dipshikha Bajracharya, Bijayatha Shrestha, Asha Kamath. Aparna Menon and Raghu Radhakrishnan Immunohistochemical Correlation of Matrix Matalloproteinase 2 and Tissue Inhibitors of Metalloproteinase 2 in Tobacco Associated Epithelial Dysplasia, Hindwai Publishing Corporation Disease Markers, Volume 2014, Article ID 197813, 9 pages, Jan 2014
- 4. Manikkath Aparna, Arumugam Chakravarthy, Sashi Rashmi Acharya, Raghu Radhakrishnan -A clinical report demonstrating the significance of distinguishing a nasopalatine duct cyst from a radicular cyst, BMJ Case Report 2014, 1-3, Feb 2014
- Mahima Rakheja, Jasleen Grover, Chetana Chandrashekar, Monica Charlotte Solomon

 Multiplication Magnitude: Significance of Epithelial Cell Proliferation in Oral
 Squamous cell Carcinoma: A Systematic Review, Research and Reviews Journal of
 Dental Sciences, 2(1), 47-58, April-June 2014.
- NDVN Shyam, Nirmala N Rao, Raman DS Narang, Jiji George, Sanjay R Bommu, G Kiran, Immnohistochemical Characterization of cyclin dependent Kinase - 4 in different histological grades of Oral leukoplakia and oral squamous cell carcinoma, Journal of Oral and Maxillofacial Pathology, 18(1), 36-41, 2014
- Parul Maheshwari, Nirmala N Rao, Raghu Radhakrishna, Histochemical Evaluation of stromal components in fibrous dysplasia, central ossifying fibroma and juvenile ossifying fibroma affecting the jaw bones, International Journal of Dental Research, 2(1), 3-7, 2014
- 8. Dr. Subhalakshmi, Dr. Mary Mathew, Dr. Raghu A R, Dr. Abhay T Kamath, Dr. Sunitha Carnelio, Dr. Monica C Solomon- An Infiltrative Squamous cell carcinoma of the sinonasal tract A report of a rare case, International Journal of Advanced Research, 2(5), 792-798, May 2014.
- 9. Mahima Rakheja, Raghu Radhakrishnan, Monica Charlotte Solomon Sentinel lymph node biopsy in oral squamous cell carcinoma Ensuing from elective to selective, Journal of Research in Medical and Dental Sciences, (2), 5-10, April-June 2014.



- 10. Ankur Kaur Shergill, Pratyush Singh, Monica Charlotte Solomon, Gurshinder Pal Singh, Dentigerous Cyst associated with an Erupted Tooth An Unusual Presentation, International Journal of Scientific Study, 2(2), 100-102, May 2014
- 11. Dr. Pratyush Singh, Pratik Patel, Raghu A R, Ankur Kaur Shergill, Monica Charlotte Solomon - Current Assessments Regarding the Pathogenesis and Treatment Strategies of Oral Lichen Planus – A Review, Asian Pacific Journal of Health Sciences, 1(2), 96-103, 2014
- 12. Aditi Amit Ayatnal, Subhalakshmi Sen, Amit Byatnal, Monica Charlotte Solomon-"Cyclooxygenase – 2" A vibrant Chemical Mediator in A Plethora of oral Lesions, Int. J Cur Res Rev, 6(12), 33-36, June 2014
- 13. Vignesh Kailasam, Ashima Valiathan, Nirmala Rao Histological evaluation after electrothermal debonding of ceramic brackets, Indian Journal of Dental Research, 25(2), 2014, 143-149
- 14. Monica Charlotte Solomon MS Vidyasagar, Donald Fernandes. Tissue Microarray technology a novel research tool for Oral Squamous Cell Carcinoma: A review. International Res J Med Sci 2014; 2 (7): 21-29
- 15. Hari shanker, A Subhalakshmi. Sen, Chetana Chandrashekhar, Sunitha Carnelio, Ambika Nalwar, Monica C Solomon, Human Papilloma Virus and Head and Neck Cancer – A Review - International Journal of Recent Scientific Research, Vol.5 Issue 7, 1276-1280, 2014.
- 16. Hari Shankar alampally, Ankur Kaur Shergill, Sunitha Carnelio, Chetana Chandrashekar, Gurshinder Pal Singh. Unicystic ameloblastoma associated with a compound odontome: An unusual presentation. Int J Cur Res Rev 2014;1 7:17-20. Aug 2014
- 17. Monica Mehendiratta, Monica Charlotte Solomon, Karen Boaz, Vasudeva Guddattu, Aashima Mohindra. Clinico-pathological correlation of E cadherin expression at the invasive tumor front of Indian oral squamous cell carcinomas: An immunohistochemical study. J Oral Maxillofac Pathol 2014;18:17-22.
- 18. Jasleen Gover, Mahima Rakheja, Nirmala N Rao, Ankur Singh, Monica C Solomon, "Emerging Strategies against Head and Neck Cancer- A Review published in IOSR Journal of Dental & Medical Sciences, Vol 13, Issue 9, Sept 2014.
- 19. Aparna M, Natarajan J, Arumugam C, Radhakrishnan R Primary Synovial sarcoma of the maxilla J cancer Res Ther, Jul-Sept 2014, Vol 10(3), 739-741
- 20. Jayalakshmi Natarajan, Chetana Chandrashekar, Raghu Radhakrishnan Critical biomarkers of epithelial mesenchymal transition in the head and neck cancers Journal of Cancer Research and Therapeutics, vol 10(3), 512-518, July-Sept 2014



- 21. Aparna M, Rao L, Kunhikatta V, Radhakrishnan R The role of MMP 2, MMP-9 as prognostic markers in the early stages of tongue squamous cell carcinoma, J Oral Pathol Med, doi1111/jop.12245, Sept 2014
- 22. Jayalakshmi Natarajan, Keith Hunter, Vimi S Mutalik, Raghu Radhakrishnan Overexpression of S100a4 As A Biomarker Of Metastasis And Recurrence In Oral Squamous Cell Carcinoma J Appl Oral Sci. 2014;22(5):426-33

Details of chapters in books published by faculty:

| S. | Name of the | Title of the book | Name of | Publisher | Year |
|-----|--------------------|----------------------|-------------|------------|------|
| No. | chapter | | the faculty | | |
| 1 | Manual of Salivary | 1. Anatomy of Human | Dr. Raghu | Jaypee | 2013 |
| | Gland Diseases | Salivary Gland | A R | Brothers | |
| | | 2. Physiology & | | Medical | |
| | | Functional Disorders | | Publishers | |
| | | of Salivary Gland | | Pvt. Ltd., | |
| 2 | Lesions of Oral | Teaxt Book of | Dr Nirmala | Paras | 2013 |
| | Mucosa in | Pedodontics III | N Rao | Publishers | |
| | Children | edition | | | |

Details of Conference presentations, guest lectures and invited talks 2012

- 1. Raghu AR. Saliva as a diagnostic tool. KMCT Dental College, Calicut 25th April, 2012
- 2. Raghu A.R. Doc2B promoter methylation in oral cancer tissues. American Association of Oral and Maxillofacial Pathology, Minneapolis, USA, 26 June 2012
- 3. Monica Solomon. Role of MLH1 in oral cancer in Indian Population. 8th International Conference of Head and Neck Cancer, Toronto. 21-25 July, 2012
- 4. Raghu AR. Oral Pathology for General Dental Practitioners. Joint MDASZ Melaka Manipal Medical College 4th Dental Conference, Malaysia. 6-7 Oct. 2012
- 5. Chetana Chandrashekar. Immunohistochemical markers in the definitive diagnosis of salivary duct carcinoma. 21st National Conference of IAOMP, Goa. 26-28, Oct2012
- 6. Raghu AR. Untrodden Pathology: Exploring the Unknown. XX1 National Conference of IAOMP, Bambolim, Goa. 26-28, 2012
- Dr. Ankur Kaur. Expression of MLHI in primary oral squamous cell carcinoma. 3rd International Conference on Stem Cells and Cancer (ICSCC-2012), New Delhi. 27-30 Oct. 2012
- 8. Nirmala Rao. How to write a histopathology report. Signout, MCODS, Manipal, 15th



- Dec. 2012
- 9. Monica Solomon and Chetana C. Spot the diagnosis. Signout, MCODS, Manipal, 15th Dec. 2012
- 10. Sunitha Carnelio and Vimi Mutalik. Fibromatous lesions. Signout, MCODS, Manipal, 15th Dec. 2012
- 11. Dr. Nirmala N Rao, Role of Dentists in Mass Disaster in CME on /forensic Odontology "Tooth do Tell Tales" an aid in forensic investigation held on 3rd March 2012 at Department of Medical Education, KMC Mangalore

- 1. Dr. Raghu A R- Annual South Zone dental conference in Malaysia, May 2013
- 2. Dr. Sunitha Carnelio-3rd Annual Conference of Karnataka State Chapter of AOMSI, March 7th 9th 2013. Chaired a session
- 3. Dr. Sunitha Carnelio-UAE Cancer Congress 2013, Dubai-Can MMP-2 expression in oral lichen planus herald the progression to oral malignancy?
- 4. Dr. Chetana Chandrasheka -First Mid-term conference of IAOMP that was held from January 24-26,2013 at Chennai "Histological Profiling of Recurrent and Non-Recurrent Odontogenic Keratocysts"
- Dr. Chetana Chandrashekar-XXII National Conference of IAOMP, Mumbai 8, -10Nov, 2013 Histochemical and immune histochemical Profiling of Recurrent and Non-Recurrent Odontogenic Keratocysts"
- Dr. Ankur Kaur Shergill-3rd Annual Conference of Karnataka State Chapter of AOMSI, March 7th – 9th 2013. Cancer stem cells: a promising tool for targeted Therapeutics"
- 7. Dr. Ankur Kaur Shergill -XXII National Conference of IAOMP, Mumbai, 8-10 Nov 2013"Oral Cancer Sequencing- A conduit from Evolution to Cure"

- Dr Monica Charlotte Solomon and Dr Sunita Carnelio chaired a scientific session at the 42nd Karnataka state dental conference that was held at Mangalore on November 22nd 2014
- 2. Dr. Ankur Kaur Shergill attended 10th South Zone and 32nd Karnataka State Annual ENT conference 2014 that was held in Raja Rajeswari Medical College and Hospital, Bangalore on 10th 11th & 12th October 2014.
- 3. Dr. Chetana Chandrashekar attended the workshop, Manipal Unit of UNESCO Chair in Bioethics: Mini Workshop for Postgraduate Dissertation Guides at Kasturba Medical



- College, Manipal University, Manipal on 7th June 2014.
- 4. Dr. Monica C Solomon attended the workshop, Manipal Unit of UNESCO Chair in Bioethics: Mini Workshop for Postgraduate Dissertation Guides at Kasturba Medical College, Manipal University, Manipal on 20th June 2014.
- Dr. Chetana Chandrashekar attended the workshop Master Class Series: An Eclectic Pathomed Rendezvous at MS Ramaiah Dental College, Bangalore on 14th and 15th March 2014.
- 6. Dr. Nirmala N Rao chaired Scientific /Literary session during "IGNITE" UG students and Interns Scientific Meet held from March 6-8, 2014 at Manipal College of Dental Sciences, Manipal.
- Dr. Monica Charlotte Solomon chaired Scientific /Literary session during "IGNITE" UG students and Interns Scientific Meet held from March 6-8, 2014 at Manipal College of Dental Sciences, Manipal.
- 8. Dr Monica Charlotte Solomon and Dr Sunitha Carnelio were resource persons for a CPD program on Tissue Microarray technology at Yenepoya Dental College that was held on March 10th 2014.
- 9. Dr. Monica C Solomon attended International CME in Pathology, Histopathology and Cytopathology organized in Goa on 27th, 28th February and 1st March 2014 by Indian Academy of Cytologists, Presented a paper titled "Immunoprofiling of Oral Squamous Cell Carcinomas for Better Prognostication – A Tissue Microarry Approach"
- 10. Dr. Pratyush Singh attended a conference on 1st Post Graduate Convention of Kairali Society of Oral & Maxillofacial Pathologists (KSOMP) at Trivandrum held on 22nd and 23rd February 2014, presented a paper titled "Current assessment regarding pathogenesis".
- 11. Dr. Jasleen Grover attended a conference on 1st Post Graduate Convention of Kairali Society of Oral & Maxillofacial Pathologists (KSOMP) at Trivandrum held on 22nd and 23rd February 2014, presented a paper titled "An insight to anti-cancer strategies and targeted approaches".
- 12. Dr. Hari Shankar attended a conference on 1st Post Graduate Convention of Kairali Society of Oral & Maxillofacial Pathologists (KSOMP) at Trivandrum held on and 2nd February 2014, presented a paper titled "HPV in Oral Cancer A Review".
- 13. Dr. Monica C Solomon attended a national workshop on "Design" conducted by MCPD on 17th and 18th of February 2014
- 14. Dr. Chetana chandrashekar attended a national workshop on "Design" conducted by MCPD on 17th and 18th of February 2014
- 15. Dr Monica Charlotte Solomon was a resource person for a slide seminar conducted at



Babu Banaris dental college Lucknow on February 2^{nd} 2014

16. Dr. Monica C Solomon attended International Oral Pre Cancer and Cancer Congress 3rd and 4th February 2014, at Lucknow and presented a paper titled "Simultaneous evaluation of the expression of EGFR, p53, Bcl – 2 & cyclin D1-a potential adjunct for Oral Squamous Cell Carcinoma"

12. Placement record of the past students and the contribution of the department to aid student placements

| S. | Year of | Name of the | Institution where employed | |
|----|--------------|---------------------------|-------------------------------------|--|
| No | passing | Postgraduate | | |
| | postgraduate | | | |
| | course | | | |
| 1 | 2012 | Dr. Ankur Kaur Shergill | Manipal College of Dental Sciences, | |
| | | | Manipal | |
| 2 | 2013 | Dr. Jayalakshmi Natarajan | Tamilnadu Dental College, Chennai | |
| 3 | 2014 | Dr. Aatish | PhD at University of North | |
| | | | Carolina, USA | |
| 4 | 2014 | Dr. Aditi Amit | Private practice | |

13. Plan of action of the department for the next five years

- Effective use of teaching aids and methodology in didactic lectures
- Small group discussions to improve the communication skills among undergraduate students
- Work on the curriculum to improve the PG training by including discussions and skills
- To involve them in research projects and scientific presentation and publication of research results
- Regular oral presentations of journal articles of interest
- Seminars on recent advances in Oral Pathology
- To procure more research equipment that can help us to diversify areas of research
- Generate funds to carry out oral cancer research
- Epidemiological screening of oral pre-cancer/oral cancer
- Microbiological Studies



DENTAL MATERIALS

1. Faculty profile –adequacy and competency of faculty members

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

| S. | Name | Qualification | Designation | Experience in |
|-----|------------------------|---------------|-----------------|-------------------------------|
| No. | | | | years (As of 31 st |
| | | | | December 2014) |
| 1 | Dr. Nagaraja Upadhya | MSc, PhD | Selection Grade | 23 |
| | P | | Lecturer | |
| 2 | Dr. Kishore Ginjupalli | MSc, PhD | Selection Grade | 14 |
| | | | Lecturer | |
| 3 | Dr. Abhishek Bhagat | BDS, MSc | Lecturer | 03 |

| Description | Sanctioned | Filled |
|----------------|------------|--------|
| Teaching staff | - | 02 |
| Lecturer | - | 01 |

2. Student profile – Entry level competencies, socioeconomic status, language proficiency etc.

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner.

- From 2011, new practical exercises have been introduced and the entire faculty has been involved in the design and execution of these practicals.
- From 2013, dental class quiz program for undergraduate students was introduced.
- From 2014, self-directed learning for undergraduate students was introduced
- 4. Trends in the success and dropout rates of students during the past two years



| Course | | Pass percent | age Drop outs | | | ts |
|------------------|-----------|--------------|---------------|------|------|------|
| Course | 2012 | 2013 | 2014 | 2012 | 2013 | 2014 |
| II BDS | 95 | 98 | 96 | Nil | - | - |
| PG Diploma in | 100 | - | 100 | Nil | 01 | Nil |
| Dental Materials | | | | | | |
| I DMC | No | No | No Admission | - | - | - |
| | Admission | Admission | | | | |
| II DMC | No | No | No Admission | - | - | - |
| | Admission | Admission | | | | |

5. Learning resources of the departments - Library, computers, laboratories and other resources

| Resource description | Quantity |
|--|-------------------------------------|
| Department library books | 30 |
| Computers | 03 |
| Printer | 02 |
| Scanner | 02 |
| Laboratories | 01 (UG lab) + 02 (PG laboratory) |
| Universal testing machine | 01 |
| Metallurgical microscope | 01 |
| Equipment for measurement and analysis | 32 |
| Museum | 01 with approximately 1700 exhibits |

6. Modern teaching methods practiced and use of ICT in teaching-learning

- Use of audio visual aids such as LCD projectors for better teaching-learning activity.
- Objective structured practical examination for undergraduates
- Seminar component for undergraduate students
- Self-directed learning
- Dental quiz program
- Demonstration of testing and evaluation of dental materials
- Under graduate research program

7. Participation of teachers in academic and personal counseling of students



- Faculty members are involved in the academic counseling (poor performance or poor attendance) of the students. The counseling is conducted at the end of each periodic examination.
- Dr. Abhishek Bhagat is a Teacher Guardian for 10 students since 2012.

8. Details of faculty development programs and teachers who have been benefited during the past two years

2012

| S. | Details of the program | Attended by |
|----|--|--------------------|
| No | | |
| 1 | Workshop on "Composites - Color sciences & clinical | Nagaraja Upadhya |
| | considerations" organized by Manipal College of Dental | P |
| | Sciences, Manipal on November 22 nd 2012 | Kishore Ginjupalli |
| | | Abhishek Bhagat |
| 2 | Lecture for "Future dental professional" conducted by | Nagaraja Upadhya |
| | Colgate& JDA on 17 th Nov 2012 | P |
| 3 | CDE on "Bone Grafting" organized by department of | Nagaraja Upadhya |
| | Periodontics, Manipal College of Dental Sciences, Manipal on | P |
| | September 29th 2012 | Kishore Ginjupalli |
| 4 | CDE on "Management of Biofilm in Periodontal Disease" | Nagaraja Upadhya |
| | organized by department of periodontics, Manipal College of | P |
| | Dental Sciences, Manipal on September 15th 2012 | Abhishek Bhagat |
| 5 | CDE on "Periodontal Medicine" organized by department of | Nagaraja Upadhya |
| | Periodontics at Manipal College of Dental Sciences, Manipal | P Kishore |
| | on September 1st 2012. | Ginjupalli |
| 6 | CDE on "Predictable esthetic restorations" organized by | Kishore Ginjupalli |
| | department of conservative dentistry and endodontics at | Nagaraja Upadhya |
| | Manipal College of Dental Sciences, Manipal on March 1st | P |
| | 2012. | Abhishek Bhagat |

| S. | Details of the program | Attended by |
|----|--|--------------------|
| No | | |
| 1 | "Emerging trends in dental education" conducted by Manipal | Kishore Ginjupalli |
| | Center for professional and personal development and | Abhishek Bhagat |



| | Department of Prosthodontics, MCODS, Manipal on 17th | Nagaraja Upadhya |
|---|---|--------------------|
| | September 2013 at Manipal University, Manipal. | P |
| 2 | CDE on Spectrum 13 organized by department of conservative | Kishore Ginjupalli |
| | dentistry and endodontics, MCODS Manipal on 24th October | Abhishek Bhagat |
| | 2013. | Nagaraja Upadhya |
| | | P |
| 3 | CDE program on "Towards success in research-need for best | Nagaraja Upadhya |
| | practices organized by Department of Public Health Dentistry, | P |
| | MCODS, Manipal on 6 th July 2013 | |

| S. | Details of the program | Attended by |
|----|---|--------------------|
| No | | |
| 1 | Faculty development program in Entrepreneurship organized | Kishore Ginjupalli |
| | by Manipal Institute of Technology, Manipal from 17th to 28th | |
| | March 2014 at MIT, Manipal. | |
| 2 | CDE on Updates in adhesive industry, composites, cements | Kishore Ginjupalli |
| | galore" conducted by Department of conservative dentistry | |
| | and endodontics, MCODS, Manipal on 3rd March 2014 at | |
| | MCODS, Manipal University, Manipal. | |
| 3 | "How to get published" conducted by Health Science Library, | Abhishek Bhagat |
| | Manipal University, Manipal on 10th December 2014 at, | |
| | Health Science Library Manipal. | |
| 4 | NRC-M workshop on biomaterials organized by UGC | Nagaraja Upadhya |
| | Networking resource center for materials held at department of | P |
| | materials engineering, IISc Bangalore from 23 rd to 25 th May | |
| | 2014 | |
| 5. | Faculty development program on Nurturing an effective work | Nagaraja Upadhya |
| | place organized by TAPMI, Manipal from 14 th to 15 th | P |
| | November 2014 | |

9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research

Teaching

All the faculty members are involved in the undergraduate and postgraduate teaching. In



addition, faculty members of the department are involved in the following academic activities

- In planning and execution of lesson plan, lecture schedule and delivery of lecture contents
- Demonstration and supervision of practical work of the students
- Members of the Board of studies
- Preparation of question papers and curriculum design.
- As members in various committees set up by the college
- Involved in Quality management system and environmental management system

Consultancy

• Faculty members are involved in testing of materials for research purpose.

| S. No. | Year | No. of Projects completed | Amount generated (in Rs) |
|--------|------|---------------------------|--------------------------|
| 1. | 2011 | 99 | 23, 609.00 |
| 2. | 2012 | 90 | 61, 894.00 |
| 3. | 2013 | 69 | 1, 06, 656.00 |
| 4. | 2014 | 115 | 1, 75, 362.00 |

They are also involved in the material testing of various departments of sister institutions of Manipal University and completed about 50 projects.

Research by faculty

| S. No. | Title | Faculty Involved |
|--------|---|---------------------|
| 1. | Effect of different types of water on the properties of | Dr. Abhishek Bhagat |
| | irreversible hydrocolloid impression materials | |
| 2. | Evaluation of properties of nanoparticle incorporated | Kishore Ginjupalli |
| | alginates | Nagaraja UP |

- 10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years
 - Nil
- 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years
- Glass ionomer cements; Biodegradable polymers; Titanium and its alloys

Ongoing:



| Category | Number |
|------------------------------|--------|
| Funded research projects | - |
| Non-funded research projects | 01 |
| PhD research projects | - |
| PG research projects | - |
| UG research projects | - |

Last 3 years (2012-2014):

| | Category | 2014 | 2013 | 2012 |
|-------------------|----------------------------|------|------|------|
| Completed fur | nded research projects | - | - | - |
| Completed no | n-funded research projects | 01 | 01 | - |
| Completed Ph | D research projects | - | - | - |
| Completed PC | 3 research projects | 01 | - | 03 |
| Completed U | G research projects | 01 | 01 | - |
| Publications | International | 01 | 05 | - |
| Publications | National | 06 | 02 | 02 |
| Books | | - | - | - |
| Chapters in books | | - | - | - |
| Conference | International | 03 | 00 | 06 |
| presentations | National | 02 | 02 | 01 |

Completed PG research projects:

2014

| S. No. | Title | Name of the student | Guide |
|-----------|--|---------------------|-----------|
| 1. | Evaluation of properties of tissue conditioner | Dr. Akanksha | Kishore G |
| | containing origanum oil as an antifungal | Srivastava | |
| | additive | | |
| 2. | Properties of Dental stone with antimicrobial | Dr. Jaise | Kishore G |
| | additives | Aalisa | |
| 3. | Comparative evaluation of the reparative shear | Dr. Tarun TA | Kishore G |
| | bond strength of the composite res in cured | | |
| | with led and He-Cd laser | | |

2013

| S. No. | Title | Name of the | Guide |
|-----------|--------------|-------------|-------|
| 110. | | student | |
| 1. | No Admission | | |

| S. No. | Title | Name of the student | | Guide |
|-----------|---|---------------------|----------|-------------|
| 1. | Effect of curing cycles on the performance of | Dr. | Suveetha | Nagaraja UP |
| | Acrylic denture base resins | Ganeshan | | |



Details of Publications:

2014

- 1. Taru Rao, Nagaraj Upadhya. Effect of 37% phosphoric acid on the in-vitro shear strength between nickel chromium alloys and luting cements-An SEM Study. International Journal of Advanced Research (2014), Volume 2, Issue 5, 1187-1192
- 2. Nandish Bantarahalli Thopegowda, Kamalakanth Shenoy, Ravishankar Kiaakkar Shankaranarayana, Kukkila Jayaprakash, Kishore Ginjupalli, Shama Bhat Vaddya, Sudeendra Prabhu. Evaluation of mechanical properties of recasted dental base metal alloys for considering their reusability in dentistry and engineering field. Archives of Medicine and Health Sciences, 2(2), 2014, 178-183
- 3. Koteswara Rao Pachava, Kamalakanth Shenoy K, Chittaranjan B, Kishore Ginjupalli. Comparative antifungal efficacy of denture soft liners with Clotrimazole: An in vitro study. Indian J Dent Adv 2014; 6(3): 1593-1595.
- 4. Kukkila Jayaprakash, Bantarahalli Thopegowda Nandish, Harish Kumar Shetty K, A Nityananda Shetty, Shama Bhat Voddya, Sudeendra Prabhu, Kishore Ginjupalli. Impact of Storage Environments on the Dimensional Stability of Irreversible Hydrocolloid Alginate Impression used in Dentistry. International Journal of Health and Rehabilitation Sciences, 2014, 3(1):24-29
- 5. Kukkila Jayaprakash, P Nagaraja Upadhya, Bantarahalli Thopegowda Nandish, A Nityananda Shetty, K Harish Kumar Shetty, Kishore Ginjupalli, Shama Bhat Voddya, Sudeendra Prabhu. Impact of Water Quality and Water Powder Ratio on the Properties of Type 4 Die Stones (Gypsum Products) used in Dentistry. International Journal of Health and Rehabilitation Sciences, 2014, 3(2), 75-81.
- 6. Kishore Ginjupalli, Ranjith Kumar Averineni, Mahalinga Bhat K. & Udupa N. Preparation and characterization of biodegradable scaffolds of poly(lactide-coglycolide) 50:50 and hydroxyapatite for dental applications. Composite Interfaces, 2014, 21(1):31-44.
- 7. Nagaraja Upadhya P. Development of novel glass ionomer cement based on polyacrylic acid-A review. The dentcare. Vol 1, issue 1, 2014 page: 8-16.

2013

 Puttur Laxmish Mallya, Shashi Rashmi Acharya, Vasudev Ballal, Kishore Ginjupalli, M. Kundabala, Manuel Thomas. Profilometric study to compare the effectiveness of various finishing and polishing techniques on different restorative glass ionomer cements. Journal of Interdisciplinary Dentistry. 2013; 3(2):86-90.



- N.V. Ballal, A. Tweeny, J.C. Baumgartner, K. Ginjupalli and V. Saraswathi. Effect of Maleic Acid and Ethylenediaminetetraacetic Acid on the Shear Bond Strength of RealSeal SE Sealer to Root Canal Dentin. Eur. J. Prosthodont. Rest. Dent. 2013; 21(4): 152-156.
- Ginjupalli Kishore, Armugam Karthik, Shavi Venkat Gopal, Averineni Ranjith Kumar, Mahalingam Bhat, N Udupa. Development of RP-HPLC method for simultaneous estimation of lactic acid and glycolic acid. Der Pharma Chemica, 2013, 5(4): 335-340.
- 4. Nandish Bantarahalli Thopegowda, Kamalakanth Shenoy, Ravishankar Kiaakkar Shankarnarayana, Jayaprakash Kukkila, Shama Bhat Vaddya, Kishore Gingipalli. Recycling of Materials used in Dentistry with Reference to its Economical and Environmental Aspects. International Journal of Health and Rehabilitation Sciences, 2013: 2(3), 140-145.
- 5. Akanksha Srivastava, Kishore Ginjupalli, Nagaraja Upadhya P. Evaluation of the properties of a tissue conditioner containing origanum oil as an antifungal additive. Journal of prosthetic dentistry, 2013, 110:313-319.
- Arul Amalan, Kishore Ginjupalli, Nagaraja Upadhya P. Evaluation of properties of irreversible hydrocolloid impression materials mixed with disinfectant liquids. Dental Research Journal, 2013, 10(1):65-73.
- 7. Rama Krishna Alla, Suresh Sajjan, Venkat Ramaraju Alluri, Kishore Ginjupalli, Nagaraja Upadhya P. Influence of fiber reinforcement on the properties of denture base resins. Journal of biomaterials and nanobiotechnology, 4, 91-97, 2013.

- Kishore Ginjupalli, Nagaraja Upadhya P, Ramakrishna Alla, Nandish B.T. Evaluation of cohesive and adhesive strength of dental materials. Manipal Odontoscope, 2012;4:47-52
- Akanksha Srivastava, Jalise Aaisa, Tarun Kumar TA, Kishore Ginjupalli, Nagaraja Upadhya P. Alginates: A review of compositional aspects of dental applications. Trends in biomaterials and artificial organs.2012; 26:31-36.

Details of Conference presentations:

2014

1. Kishore Ginjupalli delivered a guest lecture entitled "Testing methodologies for the characterization of dental materials" at Spectrum 14, a continuing dental professional



- program held by Dept of conservative dentistry and endodontics, Manipal college of dental sciences, Manipal university at Manipal held on 24th October 2014.
- Kishore Ginjupalli delivered a talk entitled "Preparation and Evaluation of PLGA 50:50 and β-TCP scaffolds with internal acidic microclimate controlling additives" at International symposium on advanced polymeric materials held from 13th-16th May 2014 at Kuala Lampur, Malaysia
- 3. Abhishek Bhagat presented a paper entitled "Impression techniques for Implants A review" at the FDI Annual World Dental Congress 2014 held from September 11th to 14th 2014 at NCR New Delhi
- 4. Abhishek Bhagat presented a paper entitled "Titanium metals and its problems" at the 67th IDC conference held from February 21th to 23rd 2014 at Hyderabad
- 5. Nagaraja Upadhya P presented a poster entitled "Evaluation of properties of experimental glass ionomer luting cements" at International conference on advanced functional materials 2014 organized by CSIR-National institute for interdisciplinary science and technology from 19th to 21st February 2014 held at Thiruvananthapuram, Kerala, India.

- 1. Kishore Ginjupalli presented a poster entitled "Preparation and Characterization of PLGA 85:15 and Nano Hydroxyapatite Scaffolds for Dental Applications" at National conference on challenges in biomaterials research held from 23rd to 24th December 2013 at Vellore Institute of Technology, Vellore, Tamilnadu, India.
- Abhishek Bhagat presented a paper entitled "Effect of quality of water on Alginate" at the 41th KSD conference held from November 22nd to 24th 2013 at Madikeri, Karnataka, India

- Abhishek Bhagat presented a paper entitled "Review of Maxillofacial prosthesis Materials" at 40th Karnataka State Dental Conference held from 30th Nov 2012 to 2nd Dec 2012 at B.C. Road, Mangalore.
- 2. Kishore Ginjupalli delivered a invited talk entitled "Preparation and Characterization of Biodegradable Scaffolds with Microclimate Controlling Additives for Dental Applications" at International Conference on natural polymers 2012 held from 26th to 28th October 2012 at Mahatma Gandhi University, Kottayam, Kerala, India.
- 3. Kishore Ginjupalli presented a poster entitled "Preparation and Characterization of PLGA 85:15 and Nano Hydroxyapatite Scaffolds for Dental Applications" at



- International Conference on natural polymers 2012 held from 26th to 28th October 2012 at Mahatma Gandhi University, Kottayam, Kerala, India.
- 4. Kishore Ginjupalli presented a poster entitled "Preparation and evaluation of PLA and β-TCP scaffolds for dental applications" at International Conference on Biomaterials, Implant Devices, Tissue Engineering 2012 held from 6th to 8th January 2012 at Rajalakshmi Engineering college, Chennai, Tamilnadu.
- 5. Nagaraja Upadhya presented a paper entitled "Development of calcium fluoroaluminosilicate glasses of glass ionomer cement for luting applications at International Conference on natural polymers 2012 held from 26th to 28th October 2012 at Mahatma Gandhi University, Kottayam, Kerala, India.
- 6. Nagaraja Upadhya presented a paper entitled "Processing and characterization of calcium fluoroalumino based glass ionomer cements for luting applications" at International Conference on Biomaterials, Implant Devices, Tissue Engineering 2012 held from 6th to 8th January 2012 at Rajalakshmi Engineering college, Chennai, Tamilnadu.
- 7. Nagaraja Upadhya presented a poster entitled "Microwave melting of ion leachable glasses of glass polyalkenoate cement International Conference on natural polymers 2012 held from 26th to 28th October 2012 at Mahatma Gandhi University, Kottayam, Kerala, India.

12. Placement record of the past students and the contribution of the department to aid student placements

| S. No | Year of completion of postgraduate course | Name of the Postgraduate | Institution where employed |
|----------|--|-----------------------------|---|
| 1 | 2013 | Suveetha Ganeshan | No information |
| 2 | 2012 | Akanksha Srivatsava | Saraswati Dental College, Lucknow, Uttar Pradesh |
| 3 | 2012 | Jalise Aiasa | Manipal Acunova, Manipal, Karnataka |
| 4 | 2012 | Tarun T A | Private practice, Mumbai |

13. Plan of action of the department for the next five years

- To develop the materials testing laboratory
- To carry out collaborative and interdisciplinary research



- 1. Name of the Department: Manipal College of Nursing Manipal
- 2. Year of establishment: 30 th August 1990
- 3. Is the Department part of a School/Faculty of the university?

Yes. A constituent Institution of the Manipal University.

4. Names of programmes / Courses offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.)

| # | Programme Level | Name of the Course | Duration (Years) |
|----|--------------------|--|------------------------------------|
| 1. | TT 1 1 . | BSc Nursing | 4 |
| 2. | -Under graduate | P.B.B.Sc Nursing | 2 |
| 3. | Post graduate | MSc (Nursing) | 2 |
| 4. | MPhil- Part Time | M.Phil (Nursing) | 2 |
| 5. | PhD | - | Minimum 3 years Maximum 5 years |
| 6. | Post Basic Diploma | Cardiothoracic Nursing Critical Care Nursing Psychiatric/ Mental Health Nursing Emergency and Disaster Nursing Neonatal Nursing Neuroscience Nursing Nurse Practitioner in Midwifery Oncology Nursing Operation Room Nursing Orthopedic and Rehabilitation | 1 |

5. Interdisciplinary courses and departments involved -

- Open electives on Medical Emergency and first aid is being offered for 6th Semester MIT students. The course offers 57 hours of theory with 3 hours of examinations.. This course will prepare students to be prepared to identify medical emergencies and perform basic life support measures. Focused areas are Respiratory, Gastro-intestinal, musculoskeletal, dental, ear, nose, throat, renal, nervous, hematological, endocrine systems and paediatric emergencies, psychiatric emergencies and obstetrical emergencies. Practical hours are allotted for Basic life support, bandaging etc. Classes are delivered by faculty from the specialized field of respective nursing departments.
- Short courses on Professional development & etiquettes, Life style modification, complementary & alternative therapy and Fine arts. These three short course programs are offered for any aspiring students of Manipal University with a requirement of 30 hours (1 credit). The program aims to provide holistic view to one's views and practice in life. (2015 onwards)



• Classes for Bachelor of Physiotherapy in Basics of Nursing and First Aid (25 hours).

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

Collabration with Ngee Ann Polytechnic, Singapore for Overseas Immersion Programme w.e.f. 2008.

7. Details of programmes / courses discontinued, if any, with reasons

Nil

8. Annual/ Semester/Choice Based Credit System

- Annual (As per Indian Nursing Council regulations)

9. Participation of the department in the courses offered by other departments

- Medical emergency and First aid classes for technical course students of Manipal University(6th Semester)
- Faculty participation in Guidance and counselling program run by Manipal University Manipal (Psychiatric nursing dept.)
- Faculty participation in ACLS program for Manipal University (Medical surgical Nursing Dept.)
- Project advisor for MU FILLIPE Fellowship programme
- Faculty participation in Bioethics Certificate course

10. Number of teaching posts sanctioned and filled

(Professors/Associate Professors/Assistant Professors) as on 31.12.2014

| Designations | Sanctioned | Filled |
|--------------------------------|------------|--------|
| Professor & Dean | 01 | 01 |
| Professor & Associate Dean | 01 | 01 |
| Professors | 11 | 05 |
| Associate Professors | 07 | 06 |
| Assistant Professors-Sr. Scale | 15 | 16 |
| Assistant Professors | | 09 |
| Lecturers | 23 | 14 |
| Assistant Lecturers | | 01 |
| Total | 58 | 53 |

Note: Regulatory body (INC) requirement is 1:10 faculty student ratio. Current student strength is 469 only.



11. Faculty profile with name, qualification, designation and specialization (DSc/DLitt/

PhD/MPhil, etc. as on 31.12.2014

Department of Medical Surgical Nursing:

| Désignation | Number of facultymembers |
|-------------------------------|--------------------------|
| Professor & Head | 01 |
| Associate Professor | 02 |
| Assistant Professor-Sr. Scale | 04 |
| Assistant Professor | 02 |
| Lecturer | 04 |

| # | Faculty Name | Qualification | Designation | Specializatio n | Total Teaching Experience in years | Teaching experienc e After PG Course | Clinical experience |
|-----|---|---|----------------------------|--------------------------------|---|--|------------------------|
| 1. | Dr. Elsa Sanatombi Devi | P. C. B. Sc.(N) M. Sc. (N), Ph. D (N) MBA (Health Care Services) Certificate in Counseling & Psychology | Professor & Head | Medical Surgical Nursing | 11 | 11 | 02 |
| 2. | Mrs. Daisy Josphine Lobo | P.C. B. Sc.(N), M. Sc.(N), M. Phil.(N) | Assoc. Prof. | Medical Surgical Nursing | 09 | 09 | 10 |
| 3. | Dr. Jyothi Chakrabarty | B. Sc.(N) M. Sc.(N) Ph. D(N) | Assoc. Prof. | Medical Surgical Nursing | 08 | 08 | 06 |
| 4. | Mrs. Melita Sheilini | P. C. B. Sc. (N) M. Sc.(N) | Asst. Prof Senior Scale | Medical Surgical Nursing | 08 | 07 | 02 |
| 5. | Mrs. Leena Sequira | P. C. B. Sc. (N) M. Sc. (N) | Asst. Prof Senior Scale | Medical Surgical Nursing | 07 | 06 | 10 |
| 6. | Mrs. Latha T | P. C. B. Sc. (N) M. Sc. (N) | Asst. Prof Senior Scale | Medical Surgical Nursing | 06 | 06 | 07 |
| 7. | Mrs. Soumya Christabel | B. Sc. (N) M. Sc.(N) | Asst. Prof Senior Scale | Medical Surgical Nursing | 06 | 06 | 01 |
| 8. | Mrs. Simi Rachel Thomas | B. Sc. (N) M. Sc. (N) | Asst. Prof. | Medical Surgical Nursing | 04 | 04 | 00 |
| 9. | Mrs. Janet Prameela D' Souza | P. C. B. Sc. (N) M. Sc. (N) Diploma in Specialization of Cardiothoracic Nursing | Asst. Prof. | Medical Surgical Nursing | 05 | 04 | 01 |
| 10. | Mrs. Prima Jenevive Jyothi D' Souza | P. C. B. Sc.(N) M. Sc. (N) | Lecturer | Medical Surgical Nursing | 05 | 02 | 07 |
| 11. | Mr. Anil Raj A | B. Sc. (N) M. Sc. (N) | Lecturer | Medical Surgical Nursing | 02 | 02 | 01 |
| 12. | Mrs. Shalini G Nayak | P. C. B. Sc. (N) M. Sc. (N) | Lecturer | Medical Surgical Nursing | 01 | 01 | 09 |
| 13. | Mrs. Magdalene Patsy | B. Sc. (N) M. Sc. (N) | Lecturer | Medical Surgical Nursing | <01 | <01 | 01 |
| www | v.manipal.edu | | Mar | nipal Academy | of Higher E | ducation F | Page 486 |



Department of Community Health Nursing:

| Designation | Number of facultymembers |
|------------------------------------|--------------------------|
| Associate Professor and Head | 01 |
| Assistant Professor - Senior Scale | 02 |
| Assistant Professor | 02 |
| Lecturer | 02 |

| # | Faculty Name | Qualification | Designatio n | Specializati on | Total Teaching Experien ce in years | Teaching experienc e After PG Course | Clinical experience |
|----|---------------------------|--|---------------------------------|--------------------------------|-------------------------------------|---------------------------------------|------------------------|
| 1 | Dr. Shashidhara Y N | B Sc(N) MSc(N), MSc (Ecology and Environment) Ph. D (N) | Assoc. Prof. and Head | Community Health Nursing | 09 | 08 | 02 |
| 2 | Mrs Ansuya | P. C. B. Sc. (N) M. Sc. (N) | Asst. ProfSenior Scale | Community Health Nursing | 07 | 07 | 10 |
| 3 | Mrs Malathi G Nayak | P. C. B. Sc.(N) M. Sc.(N) | Asst. Prof. -Senior Scale | Community Health Nursing | 06 | 06 | 14 |
| 4 | Mr. Lingaraju A R | B.Sc(N) M.Sc (N) | Asst. Prof. | Community Health Nursing | 04 | 04 | 01 |
| 5 | Mrs. Manjula | P. C. B. Sc. (N) M. Sc. (N) | Asst. Prof. | Community Health Nursing | 05 | 04 | 10 |
| 6 | Mr. Nidhin Thomas | B.Sc(N) M.Sc(N) | Lecturer | Community Health Nursing | 02 | 02 | 01 |
| 7. | Mrs. Reshma | B.Sc(N), M.Sc(N) | Lecturer | Community Health Nursing | 02 | <01 | 00 |

Department of Paediatric Nursing:

| Designation | Number of faculty members |
|-----------------------------------|---------------------------|
| Professor and Dean | 01 |
| Professor and Head | 01 |
| Professor | 01 |
| Assistant Professor -Senior Scale | 05 |
| Lecturer | 01 |

| # | Faculty Name | Qualification | Designatio n | Specializati on | Total Teaching Experien ce in years | Teaching experienc e After PG Course | Clinical experience |
|----|------------------------------------|--|---|-----------------------|-------------------------------------|---------------------------------------|------------------------|
| 1. | Dr. Anice George | BSc (N) MSc (N) MPhil (N), PhD(N) | Dean, Professor, Pediatric Nursing Director, Nursing Manipal University | Paediatric Nursing | 28 | 27 | 05 |
| 2. | Dr.Mamatha S Pai | BSc (N)MSc (N) MPhil (N) Ph D (N) | Professor & Head | Paediatric Nursing | 17 | 16 | 00 |
| 3. | Dr.Baby S Nayak | B Sc (N)M Sc (N) M Phil (N) Ph.D (N) | Professor | Paediatric Nursing | 14 | 14 | 00 |
| 4. | Mrs. Sangeetha Priyadarshini | B Sc(N)M S(N) | Asst. Prof. -Senior Scale | Paediatric Nursing | 09 | 09 | 00 |
| 5. | Mrs. Anjalin D' Souza | B S(N) M Sc(N) | Asst. Prof. -Senior Scale | Paediatric Nursing | 12 | 08 | 00 |
| 6. | Mrs. E Binu Margaret | B Sc(N),M S(N) MA (Sociology) | Asst. Prof. -Senior Scale | Paediatric Nursing | 10 | 08 | 00 |
| 7. | Mrs. Sheela Shetty | B Sc(N),M Sc(N) | Asst. Prof. -Senior Scale | Paediatric Nursing | 06 | 06 | 00 |
| 8. | Mrs.Yashoda S | P. C. B. Sc(N) M. Sc(N) | Asst. Prof. -Senior Scale | Paediatric Nursing | 06 | 06 | 15 |
| 9. | Ms. Nisha P V | B Sc (N), M Sc (N) | Lecturer | Paediatric Nursing | <01 | <01 | 01 |

Department of OBG Nursing:

| Designation | Number of faculty members |
|------------------------------------|---------------------------|
| Associate Dean, Professor and Head | 01 |
| Associate Professor | 01 |
| Assistant Professor (Senior Scale) | 03 |
| Assistant Professor | 02 |
| Lecturer | 01 |

| # | Faculty Name | Qualification | Designatio n | Specializati on | Total Teaching Experien ce in years | Teaching experienc e After PG Course | Clinical experience |
|----|---------------------------|---|-------------------------------|--------------------|-------------------------------------|---------------------------------------|------------------------|
| 1. | Dr.Judith | B Sc (N) | Associate Dean | OBG Nursing | 19 | 17 | 01 |
| | Angelitta Noronha | M Sc (N) M Phil (N) | Professor & | Nursing | | | |
| | Norollia | PhD (N) | Head | | | | |
| 2. | Dr. Sonia R B D' Souza | B Sc (N) M Sc (N) MA,(Sociology) MPhil (Sociology) Ph D (N) | Assoc. Prof. | OBG Nursing | 09 | 08 | 01 |
| 3. | Mrs. Maria Pais | P C B Sc, (N) M Sc (N) M.B.A (Health Care | Asst. Prof Senior Scale | OBG Nursing | 07 | 07 | 06 |



| | | Services) | | | | | |
|----|---|---------------------------|-------------------------------|----------------|----|----|----|
| 4. | Mrs. Anusuya | PCBSc (N) MSc (N) | Asst. Prof Senior Scale | OBG Nursing | 06 | 06 | 05 |
| 5. | Mrs. Sushmitha Ramona Karkada | B Sc (N)M Sc (N) | Asst. Prof Senior Scale | OBG Nursing | 06 | 06 | 01 |
| 6. | Mrs. Sweety Jousline Fernandes | P C B Sc (N), M Sc (N) | Asst. Prof. | OBG Nursing | 05 | 04 | 02 |
| 7. | Mrs. Pratibha | P C B Sc (N), M Sc (N) | Asst. Prof. | OBG Nursing | 04 | 03 | 08 |
| 8. | Mrs Shobha | P C B Sc (N), M Sc (N) | Lecturer | OBG Nursing | 04 | 02 | 05 |

Department of Psychiatric Nursing

| Designation | Number of faculty members |
|------------------------------------|---------------------------|
| Professor and Head | 01 |
| Associate Professor | 01 |
| Assistant Professor (Senior Scale) | 02 |
| Assistant Professor | 02 |
| Lecturer | 02 |

| # | Faculty Name | Qualifica-tion | Designa- tion | Specializa- tion | Total Teaching Experien -ce in | Teaching experien- ce After PG | Clinical experience |
|----|---------------------------------|--|-------------------------------|------------------------|---|---|------------------------|
| | | | | | years | Course | |
| 1. | Dr.Tessy Treesa Jose | B Sc (N) M Sc (N) Ph D (N) | Professor and Head | Psychiatric Nursing | 18 | 17 | 03 |
| 2. | Dr.Blessy Prabha Valsaraj | B Sc (N) M Sc (N) Ph D (N) | Assoc. Prof. | Psychiatric Nursing | 14 | 11 | 00 |
| 3. | Mrs.Asha K Nayak | B Sc (N) M Sc (N) MA (Sociology) | Asst. Prof Senior Scale | Psychiatric Nursing | 07 | 07 | 00 |
| 4. | Mrs. Shalini | PCBSc(N), MSc(N) | Asst. Prof Senior Scale | Psychiatric Nursing | 06 | 06 | 12 |
| 5. | Mr. Biju Soman | B Sc (N) M Sc (N) | Asst. Prof. | Psychiatric Nursing | 14 | 05 | 00 |
| 6. | Mrs. Savitha | PCBSc(N), MSc(N) | Asst. Prof. | Psychiatric Nursing | 05 | 04 | 10 |
| 7. | Mr. Renjulal Y | B Sc (N) M Sc (N) M Phil (N) | Lecturer | Psychiatric Nursing | 02 | 02 | <01 |
| 8. | Mrs. Anjali K G | B Sc (N) M Sc (N) | Lecturer | Psychiatric Nursing | 02 | 01 | 00 |



Department of Fundamentals of Nursing:

| Designation | Number of facultymembers |
|---------------------|--------------------------|
| Professor and Head | 01 |
| Associate Professor | 01 |
| Assistant Professor | 01 |
| Lecturer | 04 |
| Assistant Lecturer | 01 |

| # | Faculty Name | Qualification | Designatio n | Specializati on | Total Teaching Experien ce in years | Teaching experienc e After PG Course | Clinical experience |
|----|--------------------------------------|---|-----------------------|--------------------------------|-------------------------------------|---------------------------------------|------------------------|
| 1. | Dr Linu Sara George | B Sc (N) M Sc (N) Ph.D (N) MS (Counselling and Psychotherapy) | Professor and Head | Psychiatric Nursing | 16 | 14 | 00 |
| 2. | Mrs Sulochana B | PCBSc (N) MSc (N), MBA | Assoc. Prof. | Medical Surgical Nursing | 08 | 08 | 08 |
| 3. | Ms Lakra Alma Juliet Francis | B Sc (N) M Sc (N) | Asst. Prof. | OBG Nursing | 03 | 03 | 01 |
| 4. | Mrs. Charlet Jasmine Vaz | B Sc (N) M Sc (N) | Lecturer | Medical Surgical Nursing | 05 | 03 | 08 |
| 5. | Mr. Jomon C U | B Sc (N) M Sc (N) | Lecturer | Medical Surgical Nursing | 03 | 03 | 01 |
| 6. | Mrs. Twinkle Dan Pothiyil | B Sc (N) M Sc (N) | Lecturer | Paediatric Nursing | 01 | 01 | 01 |
| 7. | Mrs. Laveena Anitha Barboza | PCBSc(N), MSc(N) | Lecturer | OBG Nursing | <01 | <01 | 08 |
| 8. | Mrs Soumya Alex | B Sc (N) | Assistant Lecturer | - | 06 | 00 | 00 |

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

Adjunct Visiting Professors to MCON, Manipal:

| Name | | Designation | Place |
|----------------|---------|-------------|--|
| | | | |
| Dr (Ms) | Basanti | Professor | Mc. Master University |
| Majumdar (PhD) | | | Faculty of Health Sciences School of Nursing |
| | | | 1200 Main Street West |
| | | | HSC 3N 28 D, Hamilton, Ontario, L8N3Z5 |
| | | | Tel. No.: 905 6896740 (R) |
| | | | 905 5259140 (O) Ext.: 22726 |
| | | | E-mail: majumdar@mcmaster.ca |
| | | | Residence: |
| | | | Post Box: 126, Water Down, Ontario, Canada |
| | | | LOR2HO, Mobile: 09674604192 |



| Dr. Elissa Ladd | Associate | MGH Institute of Health Professions |
|-----------------|-----------|--------------------------------------|
| | Professor | 36 First Avenue |
| | | Charlestown Navy Yard |
| | | Boston, MA 02129 |
| | | |
| | | Résidence: |
| | | 250 1st Ave, Boston, MA 02129, U.S.A |
| | | Ph: (508) 287- 0585 |
| | | E-mail: eladd@mghihp.edu |

Major Contribution to the Department: Dr (Ms) Basanti Majumdar (Ph.D)

| Year | Contribution |
|------|---|
| 2013 | Took sessions for PhD scholars and teaching faculty on 'Participatory Action Research Proposal'. |
| 2014 | First recipient of the Endowment Chair titled: Dr. T.M.A.Pai Endowment Chair in Participatory Action Research. She gave a lecture on "Participatory Action Research" Guiding faculty to undertake three research project- Knowledge and attitude of Nurses on HIV/ AIDS, Knowledge and attitude of type II diabetes mellitus patients, qualitative study among migrant population. |

Major Contribution to the Department: Dr. ElissaLadd

| Year | Contribution |
|------|---|
| 2012 | Dr. Elisa Ladd, the Full bright Nehru Post Doctoral research fellow was the guest of honor for the International Nurses' Day 2012 held on 12 th May 2012 'Closing the Gap: From Evidence to Action'. In her address she portrayed Florence Nightingale as a scientist who first developed a Pie chart to describe the significance of data gathered. Delivered lecture for Post Graduate students in Nursing Research. |
| 2013 | Not visited |
| 2014 | Took session on 'Advanced Practice Nurse (APN)' to all teaching faculty of MCON & MSON Manipal, Research Scholars & PG students. |

- **13.** Percentage of classes taken by temporary faculty programme-wise information NIL
- **14. Programme-wise student teacher ratio** 10:1 (current ratio is 8:1)
- 15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Non-teaching staff status:

| Designations | Sanctioned | Filled |
|-----------------------------|------------|--------|
| Junior Management Executive | 01 | 01 |
| Executive –M1 | 01 | 01 |
| Senior Clerk | 02 | 02 |
| Clerk – I | 01 | 01 |



| Clerks | 04 | 04 |
|----------------------------|----|----|
| Lab Assistant | 01 | 01 |
| General Duty Worker – I | 01 | 01 |
| General Duty Worker | 01 | 01 |
| Senior House Keeping Staff | 01 | 01 |
| House Keeping Staff - II | 02 | 02 |
| House Keeping Staff | 02 | 02 |
| Lift Operator | 01 | 01 |
| Security | 02 | 02 |
| Total | 20 | 20 |

16. Research thrust areas recognized by funding agencies

New born care, Cancer, Hemophilia, HIV/AIDS, Child abuse, Violence, Geriatric, Systematic reviews in childhood obesity, Child Safety.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

| Faculty | Dept | Project title | Funding agency | National/ internation al | Total grants received |
|----------------------|--------------------------------|--|----------------|--------------------------------|-----------------------|
| Sonia RB D' Souza | OBG nursing | Effectiveness of Indian classical instrumental music therapy on developmental responses of preterm infants admitted to a tertiary level Neonatal Intensive Care Unit (NICU), KMC, Manipal' | ICMR | National | 6,65,700.00 |
| Mrs Jyothi RK | Medical Surgical Nursing | Effectiveness of pranayama on cancer related fatigue among patients with breast cancer undergoing radiation therapy in Saibaba Cancer Centre, KMC, Manipal' | ICMR | National | 4,20,240.00 |



| Sulochana B | Medical Surgical Nursing | Identification, diagnosis and education and empowerment of people with bleeding disorder in South India' | IDEEA by Novo Noredisk Haemophi la Foundatio n Andreasstr asse 15 CH-8050 Zurich Switzerlan d | Internationa 1 | 1,00,00,000. |
|---------------------|------------------------------------|---|--|----------------|--------------|
| Dr. Anice George | MCON | "Capacity Building for Nurse Educators to conduct multidisciplinary research in geriatric area" | ICMR, India | National | 55,00,000.00 |
| Mrs. Yashoda | child health nursing | Effectiveness of development care positioning aids on physiological parameters and healht outcome of preterm infants admitted in Neonatal unit of KH Manipa | Philips Electronic s India Limited, Bangalore | National | 1,00,000.00 |
| Mrs. Anusuya | Commun ity Health Nursing | Knowledge & Practice on safety measures among fishermen of Udupi Disrict | Fish Marketing Federation , Udupi and S.K. District | National | 10,000.00 |
| Mrs. Sushmitha | OBG nursing | Effectiveness of breathing exercise on outcome of labour | St. Johns Research Institute & St Johns Medical College in colloborati on with Maternal Health Task Force at Harvard School of Public Health Boston, | international | 3,00,000.00 |



| | | | USA | | |
|---------|----------|-------------------------|------|--------------|--------------------|
| Mrs. | Medical | Conference on | IFIC | Internationa | 550 |
| Latha T | Surgical | IFIC- HISICON2015 at | | 1 | USDx62= 34100.00 |
| | Nursing | New Delhi | | | 34100.00 |
| Total | | z.c., zem | | | 1,70,30,040. 00 |

c) Total grants received: 1,70,30,040.00

| Department | Number of ongoing research project (National) |
|--------------------------|---|
| Medical Surgical Nursing | 04 |
| Community Health Nursing | 03 |
| Child Health Nursing | 03 |
| Maternity Nursing | 02 |
| Mental Health Nursing | 03 |
| Fundamentals of Nursing | 01 |

18. Inter-institutional collaborative projects and grants received

- 1. All India collaboration: INC GFATM strengthening institutional capacity and training of nurses on HIV/ AIDS and ART. Received Rs. 3,26,89,300/- (till May 2015).
- 2. International collaborative research 'Rationalized recommendation of medication by nurses for self and others a pilot study' by Elsa Sanatombi Devi and Dr Elissa Ladd (Full bright Research Scholar, University of Boston). Received 20000.00
- 3. Ministry of Health and Family Welfare, Government of India has sanctioned grant for the following Nursing Staff Development programmes as detailed below:

| # | Particulars | Grants Received | Total Grants Received |
|---|---|-----------------|--------------------------|
| 1 | Department of Psychiatric Nursing: Organized Workshop on: Educational Technology: 24-30 January 2011 | Rs.1,65,300/- | |
| 2 | Department of Medical Surgical | Rs.1,65,300/- | |



| | Nursing: | | |
|---|--------------------------------------|---------------|---------------|
| | Organized Workshop on: Care in | | |
| | Emergency (Role of a Nurse): 14-20 | | |
| | February 2011. | | |
| 3 | Department of Pediatric Nursing: | Rs.1,65,300/- | Rs.6,61,200/- |
| | Organized Workshop on: Management | | |
| | Techniques: 28 February – 06 March | | |
| | 2011 | | |
| 4 | Department of Community Health | Rs.1,65,300/- | |
| | Nursing: | | |
| | Organized workshop on: Human | | |
| | Relations in Healthcare: 21-27 March | | |
| | 2011 | | |

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.

NIL

20. Research facility / centre

State recognition - NIL

National recognition- NIL

International recognition – NIL

21. Special research laboratories sponsored by / created by industry or corporate bodies – NIL

22. Publications:

Number of papers published in peer reviewed journals (national / international)

Journal Publications:

Last 5 years (2010-2014):

| Type of p | 2010 | 2011 | 2012 | 2013 | 2014 | |
|---------------------------------|---------------|------|------|------|------|----|
| Completed PhD research projects | | - | 03 | 02 | - | 05 |
| Completed PG research projects | | 38 | 34 | 45 | 45 | 48 |
| Publications | International | 14 | 9 | 19 | 29 | 44 |
| | National | 13 | 4 | 14 | 37 | 31 |
| Conference | International | 01 | 13 | 14 | 14 | 31 |
| presentations | National | 58 | 67 | 12 | 12 | 06 |



Year 2010

| ,, | |
|----|--|
| # | Publications |
| 1 | Anice George. An exploratory survey on stress among adolescent girls. International Journal of Bio Sciences, Psychiatry and Technology. 2010; 2: 10-5 (International – Indexed). |
| 2 | Anice George, Erna Judith Roach, Maxie Andrade. |
| _ | Perceptions of health care consumers, deliverers and nurse educators on nurses, nursing practice and nursing education system. Prism's Nursing Practice. 2010; 5:43-48. (<i>National-Indexed</i>). |
| 3 | Suja Karkada. Factors influencing anemia among anemic adolescent girls - A qualitative analysis. Nightingale Nursing Times. 2010; 6:27-30. (National – Non-Indexed). |
| 4 | Tessy Treesa Jose: Psychiatric Nurse's role in psychosocial rehabilitation. The Official Journal of Trained Nurses' Association of India-Kerala Branch. 2010; 5:16-23. (National – Non Indexed). |
| 5 | Baby S Nayak: Knowledge and attitude of adolescents on HIV/AIDS. Nightingale Nursing Times. 2010; 6:Page No: 24- 25 (National – Non-Indexed). |
| 6 | Baby S Nayak Comparison of life style practices of obese and non-obese children as expressed by mothers in selected schools of Dakshina Kannada District. Asian Journal of Cardiovascular Nursing. 2010; 18:7-9. (International Journal – Indexed) |
| 7 | Baby S Nayak Palliative Care needs of children with HIV/AIDS: Implications for Nursing. Nightingale Nursing Times. 2010; 6:24-27. (National – Non-Indexed). |
| 8 | Baby S Nayak, HV Bhat. A study to evaluate the effectiveness of multi-component intervention of lifestyle practices, body fat and self esteem of obese/overweight school children in selected English medium schools of Udupi district, Karnataka. International Journal of Nursing Education. 2010; 2:9-12. (International Journal – Indexed). |
| 9 | Mayengbam Benita Devi, Erna Judith Roach. Concept mapping: An effective teaching and evaluation strategy for nursing students. Nightingale Nursing Times. 2010; 5:17-20. (National – Non-Indexed). |
| 10 | SadhanaDebnath, Erna Judith Roach, Anjeline D' Souza: Effectiveness of a learning package on respiratory care of children on mechanical ventilator. Asian Journal of Cardiovascular Nursing; 18(1); January 2010; 3-8. (International-Indexed). |
| 11 | Ansuya: Occupational health problems and job satisfaction among fisherman. Nightingale Nursing Times; 6(5); August 2010; (National – Non-Indexed). |
| 12 | Eva Chris Karkada, Judith Angelitta Noronha, Sonia RB D' Souza Preparing primi gravid women for childbirth: Behavioral responses to labour pain and outcome of labour. International Journal of Nursing Education. 2010; 2:15-17. (International Journal – Indexed). |
| 13 | Malathi, Suja Karkada, Ansuya. A study on the awareness of utilization of reproductive and child health (RCH) services in the selected villages of Udupi District, Karnataka. International Journal of Nursing Education. 2010; 2:28-30. (International Journal – Indexed). |
| 14 | Maxie Andrade: 1) Alcoholism: It manifestations and related nursing diagnoses. Prism's Nursing Practice. 2010; 5:27-33. (National-Indexed). 2) Community based nursing: A challenge to health care providers. Prism's Nursing Practice. 2010; 5:101-104. (National-Indexed). |



| 15 | Elsa Sanatombi Devi, Shreemathi S Mayya, Bairy KL, Manu Mohan, Anjali A, Aswathy M, Jophy J, Luan S, Manu M, Neethu J, Shalabha MV, Shiyad NM, |
|----|--|
| | Vikas N. Knowledge of cardiac emergency drugs and its application in clinical practice among undergraduate students of a College of Nursing in Karnataka. International Journal of Nursing Education. 2010; 2:10-12. (International Journal – |
| | Indexed) |
| 16 | Elsa Sanatombi Devi. Nursing students' perception of effective teaching methods in learning pharmacology. Nightingale Nursing Times. 2010; 6:45-49. (National Journal – Non-indexed) (Registered with Registrar of Newspapers of India RNI No.: DELENG/2005/1521, |
| | postal Regn. No.: DL (E)-20/5171/09-11 dated 5th and 16th. |
| 17 | Elsa Sanatombi Devi, Ashok Rao, S Mayya, Bairy KL. Perception and attitude towards work-life balance among allied and nursing health care professionals. International Journal of Nursing Education. 2010; 2:13-14. (International Journal – Indexed). |
| 18 | Elsa Sanatombi Devi, S Mayya, Bairy KL, Anice George, Manu Mohan, Bobby Sindhu, Krishnaendhu, Aparna, Selma, Reshma, Sheila, D' Souza, Melita S, Latha T. A comparative analysis of the outcome of two teaching-learning approaches adopted for teaching pharmacology to undergraduate nursing students. International Journal of Nursing Education. 2010; 2:48-51. (International Journal – Indexed). |
| 19 | Elsa Sanatombi Devi, S Mayya, Bairy KL, Ashok Rao. Self medication among baccalaureate nursing students. Nitte Nursing Journal. 2010; 2:11-12. (National – Non indexed) |
| 20 | Daisy Josphine Lobo. Application of Roy's adaptation model. Nightingale Nursing Times. 2010; 6:61-64. (National-Non Indexed) |
| 21 | Pragya Sharma, Elsa Sanatombi Devi, Latha T, Ratna Prakash, SreemathiMayya. Efficacy of an interactive session on nursing students' perception of assertiveness in clinical milieu. International Journal of Nursing Education. 2010; 2:35-36. (International Journal – Indexed). |
| 22 | Kaini Cecilia, Elsa Sanatombi Devi, JyothiChakrabarty. Assessing the risk of deep vein thrombosis with a view to develop a protocol on its management and prevention. Asian Journal of Cardiovascular Nursing. 2010; 18:2-6. (International Journal – Indexed). |
| 23 | Krishnendu AK, Elsa Sanatombi Devi, Malathi K, Rao VRK. A study to assess the effectiveness of interpretive exercises in improving the interpretive ability of basic BSc nursing students on selected radio-diagnostic images in a College of Nursing in Karnataka. International Journal of Nursing Education. 2010; 2:7-9. (International Journal – Indexed). |
| 24 | Sangeetha Priyadarshini, Erna Judith Roach. Effectiveness of an educational programme on epilepsy care and home management for mothers. International Journal of Nursing Education. 2010; 2:42-47. (International Journal – |
| 25 | Jyothi RK, Baby S Nayak. A case-control study of dietary habits, physical activity and risk for abdominal obesity among working women. |
| 26 | Reshma Rozalin Noronha, Shrisha, Maria Pais. |
| | for mothers. International Journal of Nursing Education. 2010; 2:42-47. (International Journal – Indexed). Jyothi RK, Baby S Nayak. A case-control study of dietary habits, physical activity and risk for abdominal obesity among working women. Calicut Medical Journal. 2010; 8:1-5. (National – Indexed). |



| | Creating awareness for prevention of Osteoporosi among rural women. Nightingale Nursing Times. 2010; 6:62-64 (National – Non Indexed) |
|----|---|
| 27 | Eva Chris Karkada, Judith Angelitta Noronha, Sonia RB D' Souza. An evaluative study to determine the effectiveness of childbirth preparation class in terms of behavioural responses during first stage of labour and outcome of labour among primigravid women in selected hospitals of South India. The Malaysian Journal of Nursing. Online Journal November 2010; 1-10. (International Journal- Non indexed). |

Year: 2011

| Year: 201 | 1 |
|------------------|---|
| # | Particulars |
| 1 | Anice George, Erna Judith Roach, Maxie Andrade. |
| | Nursing education; opportunities and challenges. |
| | The Nursing Journal of India. 2011; CII:136-139. (National Journal – Indexed). |
| 2 | Anice George Jain, Renu G, Preethy D' Souza. |
| | A study to examine the relationship of stress and dysmenorrhoea among adolescent |
| | girls. |
| | International Journal of Bioengineering, Neurosciences and Technology. 2011; 1:37-40. (International Journal-Indexed). |
| 3 | Anice George Jain, Renu G, Preethy D' Souza, RaghdaShukri. |
| 3 | Personal and professional networking: A way forward in achieving quality nursing |
| | care. |
| | International Journal of Nursing Education. 2011; 3:1-3. (International Journal- |
| | Indexed). |
| 4 | Suja Karkada, AparnaBhaduri, Anice George, SaralaSethi. |
| | Risk factors for anemia among adolescent girls. |
| | International Journal of Nursing Education. 2011; 3:51-55. (International Journal- |
| | Indexed). |
| 5 | Baby S Nayak, H Vinod Bhat. |
| | Prevalence of overweight/obesity among school children in Karnataka, South India. |
| | International Journal of Public Health Research, Special issues 2011; Page No: 180-184 (International Journal-Indexed). |
| 6 | Baby S Nayak, Anice George. |
| | Factors influencing worm infestation among children. |
| | Nightingale Nursing Times. 2011; 6:12, Page No: 13, 14 & 43 (National – Non- |
| | Indexed). |
| 7 | Baby S Nayak, Suja Karkada. |
| | Traditional beliefs and practices on newborn care. |
| | Nightingale Nursing Times. 2011; 7:12-14. (National – Non-Indexed). |
| 8 | Suja Karkada, Baby S Nayak, Malathi. |
| | Awareness of palliative care among diploma nursing students. |
| 9 | Indian Journal of Palliative Care. 2011; 17:20-23. (National-Indexed). Baby S Nayak. |
| 9 | Television viewing and health behavior of children in South India. |
| | The Nursing Journal of India. 2011; CII:84-85. (<i>National Journal-Indexed</i>) |
| 10 | Baby S Nayak, Vinod Bhat. |
| 10 | Physical activity factors for childhood overweight and obesity. |
| | I-manager's Journal of Nursing. 2011; 1:6-10. (International Journal – Non indexed) |
| 11 | Siji VM, Tessy Treesa Jose, Linu Sara George. |
| | Perceived bio-psychosocial problems and coping strategies adopted by the post |
| | menopausal women among the age group of 45-55 years. |
| | International Journal of Nursing Education. 2011; 3:118-120. (International Journal- |
| 12 | Indexed). Elsa Sanatombi Devi. |
| 12 | Elsa Sanatombi Devi. Effectiveness of individualized teaching on diabetic foot care and key factors to |
| | compliance among diabetic patients. |
| | Journal SWCR. 2011; 4:34-38. (International Journal-Indexed). (Indexed in Index |
| | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |



| | Copernicus International and Open J-Gate). |
|----|--|
| 13 | Bharathi B, Tessy Treesa Jose, Sulochana B. |
| | Prevalence of vision loss and related risk factors among the individuals of 45 years |
| | and above in a selected village of Udupi District in Karnataka. |
| | International Journal of Nursing Education. 2011; 3:15-17. (International Journal- |
| | Indexed). |

January to December 2012

| # | Publications |
|----|--|
| 1 | Shrestha Sandhya; Jose Tessy Treesa; Nayak Asha: |
| | A Correlational Study on Depressive Symptoms and Social Support among Widows |
| | in a selected Women's Organization of Pokhara, Nepal. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 77-78 (International- |
| | Indexed). |
| 2 | Sreedevi C; Blessy Prabha Valsaraj; Maria Pais: |
| | A Correlative Study to assess the effect of first trimester BMI on Obstetric Outcome. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 35-36 (International- |
| | Indexed). |
| 3 | Soumya C Soans; Blessy P Valsaraj; Daisy J Lobo: |
| | A study to identify the women at risk for cancer cervix and their compliance to a |
| | screening test after an individual awareness programme in a selected village of Udupi |
| | district, Karnataka. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 87-89 (International- |
| 4 | Indexed). Elsa Sanatombi Devi: |
| 4 | "Supportive Supervision" focus for the hour where Health Is Valued (HIV) – a |
| | challenge but pleasant experience. |
| | INC News Letter; June 2012 (National – Indexed). |
| 5 | Elsa Sanatombi Devi; Ravindra Prabhu; Bhanumathi PP; Leena Sequira; |
| | Sreemathi S Mayya; Bairy KL; Manu Mohan K: |
| | Identification of health problems of patients undergoing Hemodialysis using Self Care |
| | Deficit Theory and Application of Nursing Process Approach Care. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 15-17 (International- |
| | Indexed). |
| 6 | Ansuya: |
| | Transcultural Nursing: Cultural Competence in Nurses. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 5-7 (International- |
| | Indexed). |
| 7 | Maxie Andrade: |
| | Graduates' and Supervisors' appraisal of the Educational Preparation of B. Sc. Nurses |
| | as effective clinical nurses. |
| 0 | Prism's Nursing Practice 2012; 7(1); 2012; 44-49 (National-Indexed). |
| 8 | Maria Pais; Elsa Sanatombi Devi; Muralidhar V Pai; Leslie Lewis; Anice |
| | George; Sreemathi S Mayya; Bairy KL: |
| | Neonatal Sepsis, Bacterial Isolates and Antibiotic Susceptibility Patterns among Neonates. |
| | The Nursing Journal of India; CIII (1); February 2012; 18-20 (National Journal – |
| | Indexed). |
| 9 | Shrestha Sandhya; Tessy Treesa Jose; Asha Nayak: |
| | A Correlational Study on Depressive Symptoms and Social Support among Widows |
| | in a selected Women's Organization of Pokhara, Nepal. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 77-78 (International- |
| | Indexed). |
| 10 | Maxie Andrade; Navaneetha M Former; Binu Margaret: |
| | Influence of Environmental Variables on Toddler's Growth and Social Maturity. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 37-38 (International- |



| | Indexed). |
|-----|---|
| 11 | Maxie Andrade; Erna Judith Roach; Anice George: |
| 11 | Perceptions of Health Care Consumers and Deliverers Nurses, Nursing Practice and |
| | Nursing Education System. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 39-41 (International- |
| | Indexed). |
| 12 | Maxie Andrade: |
| 12 | Choice of Nursing Career: Pleasure or Pressure. |
| | International Journal of Nursing Education; 4(1); Jan-June 2012; 42-44 (International- |
| | Indexed). |
| 13 | Janet Prameela D' Souza; Mrs. Daisy Josphine Lobo; Sulochana B: |
| 13 | Determining the effect of positioning on back pain and vascular complications among |
| | post coronary angioplasty patients. |
| | Asian Journal of Cardiovascular Nursing; 20(1); Jan 2012; 6-10 (International – |
| | Indexed). |
| 14 | RenjulalYesodharan; Asha K Nayak: |
| 14 | Whether a Video Awareness Programme is effective in increasing the knowledge of |
| | Primary School Teachers regarding ADHD? En experimental study. |
| | i-manager's Journal on Nursing; 1(4); November 2011-January 2012; 22-28 |
| | |
| 15 | (International Journal –Non indexed Journal) |
| 15 | Priya Sharma; Maxie Andrade; Bharathi R Nayak: |
| | Assessment of Knowledge on Perimenopause, symptoms experienced and practices of |
| | Perimenopausal Women. Prime's Naving Practice 2012: 7(2.3): 2012: 51.62 (National Indexed) |
| 1.0 | Prism's Nursing Practice 2012; 7(2-3); 2012; 51-62 (National-Indexed). |
| 16 | Malathi G Nayak; Sharada; Anice George: |
| | Socio-Cultural Perspectives on health and illness. |
| | Nitte University Journal of Health Science; 2(3); September 2012; 61-67 (National- |
| 17 | Indexed). |
| 17 | Naveen S Salins, NandiniVallath, Prince Varkey, KavyaRanganath, Malathi G |
| | Nayak |
| | Clinical Audit on "Evaluation of Special Issues in Adolescents with Cancer Treated in |
| | an Adult Cancer Setting": An Indian Experience |
| | Indian Journal of Palliative Care / Sep-Dec 2012 / Vol-18 / Issue-3 (National - |
| 10 | Indexed) |
| 18 | Jeyalakshmi K; Suja K; Ansuya: |
| | A study to assess the impact of Child-to-Child Programme on Knowledge, Attitude, |
| | Practice regarding Water and Noise Pollution among selected Rural School Children |
| | in Udupi District, Karnataka. |
| | International Journal of Nursing Education; 4(2); July-Dec 2012; 102-106 |
| 10 | (International Journal-Indexed). |
| 19 | Savitha; Nanda Kumar; Leena Sequira: |
| | Social support of clients with alcoholic dependence syndrome (ADS). Attending and |
| | not attending anonymous (AA) group meetings. |
| 20 | Indian Journal Psychiatric Nursing 4(1) July 2012 (National – Indexed) |
| 20 | Elsa Sanatombi Devi: |
| | Effective infection control measures with LAD therapy – Nurse's role |
| 21 | Journal of SWCR 2012; 5(1);43-45 (National – Indexed) |
| 21 | Elsa Sanatombi Devi: |
| | Diabetes necrotizing fasciitis with Anemia and Autonomic Neuropathy: A case study |
| | (Nightingale Nursing Times; Volume 8 Number 8 November 2012) (National – |
| | Indexed) |
| 22 | Shalini ; Blessy Prabha Valsaraj; Anjaline D'Souza: |
| | Domestic Violence towards Married Women in a Slum Area of Southern Karnataka. |
| | International Journal of Nursing Education, July-Dec. 2012. Vol. 4 No. 2. |
| | (International – indexed) |
| 23 | Renin M.B. Toms, Suja Karkada, Melita Sheilini: |
| | Knowledge, Attitude and Practice of Herbal Remedies among Kani Tribes of Kerala |



| | State in India. International Journal of Nursing Education, July-Dec. 2012, Vol. 4, No. 2 (International – Indexed) |
|----|--|
| 24 | Soumya C Soans; Blessy P. Valsaraj; Daisy J. Lobo: A study to identify the Women at Risk for Cancer Cervix and their Compliance |
| | to a Screening Test after an Individual Awareness Programme in a selected village of Udupi District, Karnataka. International Journal of Nursing Education, Jan-June, 2012. Vol. 4, No. 1 |
| 25 | Soumya C Soans; Blessy P. Valsaraj; Daisy J. Lobo: Domestic Violence towards Married Women in a Slum Area of Southern Karnataka International Journal of Nursing Education, July-Dec.2012, Vol.4, No.2 |
| 26 | Suja Karkada; Baby S. Nayak: Knowledge of rural married women about prevention of mother-to-child transmission of HIV. Nightingale Nursing Times, Volume 8, No. 9, December 2012. (National – Indexed) |
| 27 | Baby S Nayak, H. Vinod Bhat, Prevalence of overweight/ obesity among school children in Karnataka, South India, International Journal of Public Health Research, Special Issue 2011, 180- 184– <i>international – indexed</i> |
| 28 | Ranjani P, Baby S Nayak, Sonia R B D'souza, Maria Pais, Manjula, Alcohol Versus sterile water Cleaning for new born umbilical cord care, I- Manager's Journal on nursing, 2011, 1 (3), 18 – 24. <i>International indexed</i> |
| 29 | Jancy Anna James; Linu Sara George; Sweety Fernandes: Learning needs of women on preconception care – A strategy to develop an informational booklet. The Nurse; 4(4); Jul-Aug 2012; 1-4 (National – Non indexed) |
| 30 | ManjushambikaRajagopal; Sanchitha S Pugazhanthi; Linu Sara George: A study on effectiveness of meditation on subjective wellbeing, anxiety and study habits of undergraduate nursing students. International Journal of Nursing Education; 4(2); Jul-Dec 2012; 137-140 (International – Indexed) |
| 31 | Renin. M.B. Thoms; Suja Karkada; Melita Sheilini: 'Knowledge, Attitude and Practice of Herbal Remedies among Kani Tribes of Kerala State in India'. International Journal of Nursing Education; July –December 2012.Vol 4.No.2. (International – Indexed) |
| 32 | Janella Mariam Jacob; Linu Sara George; Savitha: Well being status among fishermen in Udupi district, Karnataka. The Nurse, Vol. 4, No. 6, Nov-Dec 2012. |
| 33 | Daisy T.Philip; Baby S Nayak; Yashoda S: Practices and the factors influencing the use of over the Counter Drugs among Mothers of Children Udupi District, Karnataka Indian Journal of Hospital Pharmacy – 49 (2012) (National – Indexed) |

Year 2013

| # | Publications |
|---|--|
| 1 | Preethy D'Souza; Aparna Bhaduri; Dr. Anice George; Renu G; Ashley |
| | D'Cru: |
| | Parental Anxiety During Children's Surgery – The effect of preoperative cognitive behavioural program. |
| | International Journal of Law, Psychology and Human Life (2013), Volume 2, |
| | Issue 1, Page(s): 1-7 - International indexed |
| 2 | Mrs. Prima Jenevive Jyothi D'Souza : |
| | Quality of Life of Head and Neck Cancer Patients receiving cancer specific |
| | treatments. |
| | Journal of Krishna Institute of Medical Sciences University, Vol. 2, No. 1, |



| | In Ivan 2012 National Indoned |
|----|---|
| 2 | Jan-June 2013 – National Indexed |
| 3 | Mrs. Maxie Andrade: |
| | 1) Verbal and Numerical Aptitude of Graduate Nursing student at entry level |
| | GRA – Global Research Analysis * 138. Volume :2 Issue : 3 March 2013 |
| | ISSN No. 2277-8160 – International Indexed |
| | 2) |
| 4 | Gishel Nisha D'Souza, Mrs. Elsa Sanatombi Devi, Melita Sheilini: |
| | Communication Pattern, attitude towards importance of communication and |
| | factors affecting communication among Nursing Graduates working in |
| | Cardiac Units. |
| | International Journal of Nursing Care, January-June, 2013, Vol. 1, No.1. |
| | (International – Indexed) |
| 5 | Maxie Andrade; Anice George; Erna Judith Roach: |
| | Perceptions of Health Care consumers, deliverers and nurse educators on |
| | Nursing Practice. |
| | Nitte University Journal of Health Science, NUJHS Vol. 3, No. 1, March |
| | 2013, ISSN 2249-7110 – National Indexed |
| 6 | Sushma Prabhu; Ratna Prakash; Daisy Lobo: |
| | Comparison of Second and Third Year B.Sc Nursing Students' Clinical |
| | Competency for Subcutaneous Insulin Administration and its determining |
| | factors. |
| | International Journal of Nursing Education. January – June 2013. Vol. 5, No. |
| | 1 (International indexed) |
| 7 | |
| / | Daisy Josphine Lobo: |
| | Learning style adopted by Postgraduate Nursing students of selected Nursing |
| | Colleges of Dakshina Kannada and the strategies to improve the learning |
| | styles of learners |
| | International Journal of Nursing Education, January –June 2013. Vol. 5, No. 1 |
| | (International indexed) |
| 8 | Daisy Josphine Lobo; Judith A Noronha; Ratna Prakash: |
| | Efficacy of Reflective Learning Package on Reflective Writing, and Critical |
| | thinking ability of Undergraduate students on head injury in slected Nursing |
| | Colleges of Udupi District. |
| | International Journal of Nursing Education, January-June 2013. Vol. 5 No. 1 |
| | (International Indexed) |
| 9 | Gururaja; Umesh Maiya; Elsa Sanatombi Devi; Anice George: |
| | Perceptions and attitude towards Quality of Work-life Balance among nursing |
| | teachers. |
| | International Journal of Humanities and Social Science Invention; Volume 2, |
| | Issue 31 March, 2013\PP.52-54 (International – indexed) |
| 10 | Senthil P Kumar; Eva Chris; Maria Pais; Vaishali Sisodia; K Vjaya |
| | Kumar: |
| | Perceived Self-Esteem amongst First year Nursing Students: A Cross- |
| | Sectional Survey. |
| | Journal of Social Welfare and Management; Volume 4, Number 3, July- |
| | September 2013. – National Indexed |
| 11 | Abidfaheem T.K.; Baby S. Nayak; Maxie Andrade: |
| 11 | Food adulteration and family's knowledge on food adulteration in selected |
| | <u> </u> |
| | village of Udupi Taluk, Karnataka. |
| | Nitte University Journal of Health Science; Vol.3, No. 2, June 2013, ISSN |
| 10 | 2249-7110 – National Indexed |
| 12 | Jijomon P.P.; Teena Sharon; Ruby Xavier & Malathi G Nayak: |
| | Health beliefs on Management of Diabetes Mellitus. Nitte University Journal |



| | of Health Coloness Vol. 2, No. 2, June 2012 ICCN 2040, 7110 Notice of |
|-----|---|
| | of Health Sciences; Vol. 3, No.2, June 2013 ISSN2249-7110 – National Indexed |
| 13 | Maxie Andrade; Anice George: |
| | Development and Psychometric Evaluation of the Tool Aptitude towards |
| | Nursing |
| | Nitte University Journal of Health Science; Vol. 3, No.2, June 2013, ISSN |
| | 2249-7110 – National Indexed |
| 14 | Asha K. Nayak; Shalini: |
| | Chickenpox – Customs, Beliefs and Traditional Practices in Udupi District : A |
| | case study. |
| | Nitte University Journal of Health Science; Vol. 3, No. 2, June 2013 |
| 1.5 | ISSN2249-7110 – National Indexed |
| 15 | Rigi George; Asha Nayak; Anjalin D'Souza: |
| | A comparative study on coping strategies and sense of coherence among |
| | caregivers of mentally and neurologically ill patients in Kasturba Hospital, Manipal, Karnataka |
| | Nitte University Journal of Health Science; Vol.3, No.w, June 2013 ISSN |
| | 2249-7110 – National Indexed |
| 16 | Linu Sara George; Asha K Nayak: |
| | Nursing aspects in Care of patients with Dementia. |
| | Nitte University Journal of Health Science: Vol. 3, No. 2, June 2013 ISSN |
| | 2249-7110 – National Indexed |
| 17 | Janella Mariam Jacob; Linu Sara George; Savitha |
| | Well being status among fishermen in Udupi District, Karnataka |
| | The Nurse, Vol. 4. No. 6, NovDec 2013 – National Indexed |
| 18 | Judith A Noronha, Aparna Bhaduri, H. Vinod Bhat, Asha Kamath |
| | Interventional study to strengthen the health promoting behaviours of pregnant |
| | women to prevent anaemia in southern India. |
| | Midwifery – International Journal; Vol 29; Issue 7; July 2013 ISSN 0266- |
| 19 | 6138 – International Indexed Lydia David; Sonia R B D Souza; Anasuya Prabhu; Leslie Lewis: |
| 17 | Learning needs and Nursing Care needs of postnatal women: Perception of |
| | women and the nurses. |
| | i-manager's Journal on Nursing, Vol. 2; No. 4; November 2012-January 2013. |
| | – National Indexed |
| 20 | Linu Sara George; PSVN Sharma; Sreekumaran Nair: |
| | Effect of Psycho-Educative Intervention on Adherence to treatment, |
| | knowledge and attitude among persons with Bipolar Affective Disorder |
| | (BPAD) – Randomized Controlled Trial. |
| | e-ISSN: 2320-1959.p-ISSN: 2320-1940 Volume 1, Issue 5 (Jul – Aug 2013), |
| 21 | PP 12-17 International Indexed |
| 21 | Sheen Helen; Tessy Treesa Jose; Asha K Nayak: |
| | A correlational study on blood pressure, stress and body mass index (BMI) among B.Sc Nursing students in a selected College of Nursing, Udupi District. |
| | Nitte University Journal of Health Science, Vol.3; No.3; September 2013, |
| | ISSN 2249-7110 – National Indexed |
| 22 | Latha Thimmappa; Ratna Prakash; Daisy J Lobo; Elsa S. Devi; |
| | Christopher Sudhaker: |
| | Interpretive evaluation in Nursing Education: Students' perception. |
| | Indian Journal of Continuing Nursing Education: Vol. 14, No. (1), Jan – June |
| | 2013 – National Indexed |
| 23 | Swetha Shettigar; Ashwini Kamath; Glancy Linet Alva; Latha T; Nevil |
| | Johnson Raju: |



| | Training on improving the competency level of self-administration of insulin |
|----|--|
| | among type 2 diabetes patients. |
| | Nitte University Journal of Health Science Vol.3, No.3, September 2013, |
| | ISSN 2249-7110 – National Indexed |
| 24 | Rose Ann Dominic; shashidhara Y.N.: Malath G. Nayak: |
| | Health seeking behavior of rural adults |
| | Nitte University Journal of Health Science, Vol. 3, No. 3, September 2013, |
| | ISSN 2249-7110 – National Indexed |
| 25 | Laveena; Sushmitha Karkada: |
| | Effectiveness of an informational leaflet on knowledge regarding breast |
| | cancer among women of reproductive age. |
| | Nitte University Journal of Health Science, Vol.3, No.3, September 2013, |
| | ISSN 2249-7110 – National Indexed. |
| 26 | Priya L; Binu Margaret E; Sheela Shetty: |
| | Socialization skills of Institutionalized children in selected areas of Udupi |
| | District, Karnataka |
| | International Journal of Nursing Education: Vol. 5 No.2: ISSN-0974-9349 |
| | (Print) * ISSN—0974-9357 (Electronic) – International Indexed |
| 27 | Latha T; Tyngkailin; M Navaneetha: |
| | Health Status and Lifestyle Practice of Diploma Nursing Students |
| | International Journal of Nursing Education. July-December 2013, Vol.5, No. |
| | 2 – International Indexed |
| 28 | Jane Maria Serrao; Ansuya; Malathi: |
| | A study to determine the effectiveness of Lecture cum Demonstration on First |
| | Aid for selected Minor Injuries among Accredited Social Health Activists |
| | (ASHA) in selected Areas of Udupi District |
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No. |
| 20 | 2 – International Indexed |
| 29 | Teena Sharon; Jijomon PP; Ruby Xavier; Malathi G Nayak: |
| | Health Practices on Management of Diabetes Mellitus |
| | International Journal of Nursing Education; July-December 2013; Vol. 5. No. |
| 30 | 2. 113 – International Indexed |
| 30 | Cynthia Thomsa; Anjaline D'Souza; Sangeetha Priyadarshini: |
| | Determining the Dieting Attitude and BMI among High School Students in Selected Schools of Udupi District. |
| | International Journal of Nursing Education; July – December 2013; Vol. 5; |
| | No.2 – International Indexed |
| 31 | Priya L; Binu Margaret E; Sheela Shetty : |
| 31 | Socialization Skills of Institutionalized Children in Selected Areas of Udupi |
| | District, Karnataka |
| | International Journal of Nursing Education; July – December 2013, Vol. 5, |
| | No. 2 – International Indexed |
| 32 | Sulochana B; Annamma Kurien; Niveditha Suvarna; Linu Sara George: |
| | Assessment of Knowledge, Physical Health, Social Support and Self-Esteem |
| | among persons with Haemophilia |
| | International Journal of Nursing Education; July – December 2013; Vol. 5; |
| | No.2 – International Indexed |
| 33 | Elsa Sanatombi Devi; Shreemathi S Mayya; Bairy KL; Anice George; |
| | Manu Mohan K: |
| | Comparative analysis of the Outcome of Two Teaching-Learning Approaches |
| | adopted for Teaching Pharmacology. |
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No. |
| | 2 – International Indexed |
| | 2 – International Indexed |



| 34 | Simranjeet Kaur; Daisy Josephine Lobo; Latha T: |
|----|---|
| | Role of Food and Hand Massage on the Anxiety for Post Operative Open |
| | Heart Surgery Patients : A Randomized Control Trial. |
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No. |
| | 2 – International Indexed. |
| 35 | Sonam Zangmu Sherpa; Melita Sheilini; Asha Nayak: |
| | Knowledge, Attitude, Practice and Preferences of Contraceptive Methods in |
| | Udupi District, Karnataka. |
| | Journal of Family and Reproductive Health, Vol. 7, No. 3, September 2013 – |
| | International Indexed |
| 36 | Jyothi Chakrabarty; M.S. Vidyasagar; Donald Fernandes; Vinutha Bhat |
| | ; Nagalakshmi; Ganapathi Joisa; Shreemathi S. Mayya: |
| | Effectiveness of Pranayama on the levels of Serum Protein Thiols and |
| | Glutathione in Breast Cancer Patients undergoing Radiation Therapy: A |
| | randomized controlled trial. |
| | Indian J Physiol Pharmacol 2013l 57(3); 225-232 – National Indexed |
| 37 | Arpita Kumari; Melita Shiny D'Souza; Thiangmon Dhar; Savitha; |
| | Soumya Alex: |
| | Severity of Mobile Phone and Internet use among B.Sc Nursing Students |
| | Nitte University Journal of Health Science; NUJHS Vol.3, No. 4,December |
| | 2013, ISSN 2249-7110 – National Indexed |
| 38 | Valsaraj Prabha Blessy; Savitha : |
| | Cultural Beliefs and Spiritual Wellbeing among Women Experiencing |
| | Religious Trance |
| | Nitte University Journal of Health Science; NUJHS Vol.3, No. 4, December |
| | 2013, ISSN 2249-7110 – National Indexed |
| 39 | Janella Mariam Jacob; Linu Sara George; Savitha : |
| | Job Stress and Coping among Fishermen |
| | Nitte University Journal of Health Science; NUJHS Vol.3, No. 4, December |
| | 2013, ISSN 2249-7110 – National Indexed |
| 40 | Savitha: |
| | Somatoform Autonomic Dysfunction – A Case Report |
| | Nitte University Journal of Health Science; NUJHS Vol.3, No. 4, December |
| | 2013, ISSN 2249-7110 – National Indexed |
| 41 | Sreeram A; D'Souza A; Margaret B.E.: |
| | A study to assess the knowledge and attitude on child rearing practices among |
| | fathers of hospitalized children of 1-6 years of age in Kasturba Hospital, |
| | Manipal |
| | Nitte University Journal of Health Science; NUJHS Vol.3, No. 4, December |
| | 2013, ISSN 2249-7110 – National Indexed |
| 42 | Sulochana B; Annamma Kurien; Niveditha Suvarna; Linu Sara George: |
| | Assessment of Knowledge, Physical Health, Social Support and Self-Esteem |
| | among persons with Haemophilia |
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No.2 |
| | International Indexed |
| 43 | Priya L; Binu Margaret E; Sheela Shetty: |
| | Socialization Skills of Institutionalized Children in selected areas of Udupi |
| | District, Karnataka |
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No.2 |
| | - International Indexed |
| 44 | Mamatha S Pai, Bhanumathi P.P.; Nageshkumar G. Rao: |
| | Legal Aspects of Nursing Care |
| | IJFPR, Vol. 3, No. 01, January-June 2013, ISSN 2231 6787 |
| | • |



| 45 | Latha T; Tyngkailin; M Navaneetha: |
|------------|--|
| | Health Status and Lifestyle Practice of Diploma Nursing Students |
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No.2 |
| | International Indexed |
| 46 | Preethy Jawahar; Soumya Alex; Anice George: |
| | A descriptive study to assess the perception on death and dying among |
| | Nursing Students in selected Colleges of Nursing in Udupi District, Karnataka |
| | State |
| | Nitte University Journal of Health Science; NUJHS Vol.3, No. 4, December |
| | 2013, ISSN 2249-7110 – National Indexed |
| 47 | Pratibha Kamath; Maria Pais; Malathi G Nayak : |
| | Risk of vaginal candidiasis among pregnant women |
| | International Journal of Current Microbiology and Applied Sciences (2013) |
| | 2(9); 141-146, ISSN:2319-7706, vol. 2 No. 9 (2013) – International Indexed |
| 48 | Maxie Andrade; Anice George; Shreemathi Mayya : |
| | Essential Qualities to be an effective Nurse |
| | International Journal of Nursing Care, July-December 2013, Vol. 1, No. 2 |
| 40 | DOI No.: 10.5958/j-2320-8651.1.2.035 – International Indexed |
| 49 | Renu G; Anice George; Preethy D'Souza: |
| | Cystic Fibrosis and Exercise: A Systematic Review |
| | International Journal of Nursing Care, July-December 2013, Vol. 1, No. 2 |
| 50 | DOI No.: 10.5958/j-2320-8651.1.2.044 – International Indexed |
| 30 | Vineeta Jose; Malathi G. Nayak; Preethy Jawahar: Attitude on Human Papilloma Virus Vaccination |
| | International Journal of Current Microbiology and Applied Sciences; ISSN: |
| | 2319-7706 Volume 2 Number 11 (2013) pp. 90-95 – International Indexed |
| 51 | Diana Mary Varghese; Anice George; Malathi G. Nayak: |
| 31 | Effectiveness of an Information booklet on knowledge and practice on food |
| | safety among food handlers in restaurants. |
| | International Journal of Advanced Research (2013), Volume 1, Issue 8, 767- |
| | 775 – International Indexed |
| 52 | Laveena Anitha Barboza; Chakrabarty J; Fernandes S J; Nayak S: |
| | Compliance to Vitamin and Mineral supplementation among pregnant women. |
| | Journal of Nursing Research Society of India; Vol. 6, No.1, June 2013 – |
| | National Indexed |
| 53 | Prema Karki; Blessy Prabha Valsaraj; Savitha: |
| | Development of an Intervention programme for improvement of self esteem |
| | among Nursing Students. |
| | Indian Journal of Psychiatric Nursing 6(1), July 2013 – National Non-indexed. |
| 54 | Vineeta Jose; Malathi G Nayak; Preethy Jawahar: |
| | Knowledge on Human Papilloma Virus Vaccination. |
| | Research Journal of Pharmaceutical, Biological and Chemical Sciences; |
| | Volume 4 Issue 4; ISSN: 0975-8585 |
| | Research journal of Pharmaceutical, Biological and Chemical Sciences. Vol.4, |
| <i>E E</i> | Issue 4, Pg No.865 ISSN:0975-8585 October – December 2013 – Intl Indexed |
| 55 | Simranjeet Kaur; Daisy Josephine Lobo; Latha T: |
| | Role of Foot and Hand Massage on the Anxiety for Post Operative Open Heart Surgery Patients: a Randomized Control Trial |
| | • • |
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No. 2 – International Indexed |
| 56 | Jane Maria Serrao; Ansuya; Malathi : |
| 50 | A study to determine the effectiveness of Lecture cum Demonstration on First |
| | Aid for selected minor injuries among accredited Social Health Activists |
| | 1 10 10 10 10 10 10 10 10 10 10 10 10 10 |



| | (ASHA) in selected areas of Udupi District. |
|-----------|--|
| | International Journal of Nursing Education, July-December 2013, Vol. 5, No. |
| | 2. – International Indexed |
| 57 | Melita Pereira; Ajimol Sebastian; Sandra Ashalatha; Latha T; Bharathi : |
| | Body Mechanics and Perceived Physical Health Problems among Computer |
| | Users |
| | |
| | International Journal of Health Sciences & Research. Vol. 3, Issue 11; |
| 50 | November 2013 – International Indexed |
| 58 | Arpita Kumari; Melita Shiny D'Souza; Thiangmon Dhar; Savitha; |
| | Soumya Alex : |
| | Severity of Mobile Phone and Internet use among B.Sc Nursing Students |
| | Nitte University Journal of Health Science; Vol. 3, No.4, December 2013 |
| | ISSN 2249-7110 |
| 59 | Latha Thimmappa; Ratna Prakash; Daisy J. Lobo; Elsa S. Devi; |
| | Christopher Sudhaker : |
| | Interpretive Evaluation in Nursing Education: Students' Perception |
| | Indian Journal of Continuing Nursing Education Vol. 14; No. (1), Jan – June |
| | 2013 – National Non-Indexed |
| 60 | Angela Rajan; Mamatha S. Pai; Binu Margaret: |
| | Utilization of Nutritional Programmes by Mothers in Selected Villages of |
| | Udupi District, Karnataka. |
| | Journal of Nursing Research Society of India. Vol. 6, No. 1, June 2013 – |
| | National Non-indexed. |
| 61 | Passang Chiki Sherpa; Jyothi Chakrabarty; Prima JJ D'Souza; |
| 01 | Muralidhar Varma : |
| | |
| | Knowledge of Critical Care Provider on Prevention of Ventilator Associated |
| | Pneumonia. |
| | Journal of Krishna Institute of Medical Sciences University; Vol.3; No.1; Jan- |
| | June 2014 – National Indexed |
| | |
| 62 | Tessy Treesa Jose; Sripathy M Bhat : |
| | A descripting study on stress and coping of nurses working in selected |
| | hospitals of Udupi and Mangalore Districts of Karnataka, India. |
| | IOSR Journal of Nursing and Health Science (IOSR-JNHS); e-ISSN: 2320- |
| | 1959. P-ISSN: 2320-1940 Volume 3, Issue 1 (Nov. – Dec.2013). PP 10-18 – |
| | International – Indexed. |
| 63 | Charlet Jasmine Vaz; Victoria D'Almeida : |
| | A study to assess the effectiveness of planned teaching programme on |
| | knowledge regarding osteoporosis among Hospital Aides in a selected hospital |
| | at Mangalore. |
| | International Journal of Nursing Education, January-June 2013; Vol. 5, No. 1 |
| | – International Indexed |
| 64 | Preethy D'Souza; Anice George; Judith A Noronha; Voshnu Renjith: |
| | Integration of evidence based practice in nursing education : a novel approach |
| | (Review Paper) |
| | Manipal Journal of Nursing and Health Sciences, Jan.2015 (Volume 1, issue |
| | 1) – International non-indexed. |
| 65 | |
| 0.5 | Sonia R.B.D'Souza; Leslie E Lewis; Vijay Kumar; Asha Kamath; Baby S |
| | Nayak; Judith A Noronha; Anice George: |
| | Noise in neonatal intensive care unit: effects on hospitalized preterm infants |
| | (Review Paper) |
| | Manipal Journal of Nursing and Health Sciences, January 2015 (Volume 1, |
| | Issue 1) International non-indexed. |



Kakani Renitha; Shashidhara Y.N.; Malathi G. Nayak:
Risk Factors of Varicose Veins among security guards
International Journal of Advanced Research (2015) Volume 3, Issue 3, 669-674 – International Indexed.

Year: 2014

| Year: 2014 | |
|------------|--|
| # | Particulars |
| 1 | Lekshmi A.R.; Ansuya ; Manjula : |
| | A study to assess the factors influencing unmet need of family planning among |
| | married women in selected villages of Udupi District, Karnataka. |
| | Nittee University Journal of Health Sciences, NUJHS Vol. 4, No.1, March |
| | 2014, ISSN 2249-7110- National Indexed |
| 2 | Nikitha S; Tessy Treesa Jose; Blessy Prabha Valsaraj : |
| _ | A correlational study on academic stress and self-esteem among higher |
| | secondary students in selected schools of Udupi District. |
| | Nitte University Journal of Health Science, Vol. 4, No. 1, March 2014, ISSN |
| | 2249-7110 – National Indexed |
| 3 | |
| 3 | Febu Elizabeth Joy; Tessy Treesa Jose; Asha K Nayak: |
| | Effectiveness of Jacobson's progressive muscle relaxation (JPMR) technique |
| | on social anxiety among high school adolescents in a selected school of Udupi |
| | District, Karnataka State. |
| | Nitte University Journal of Health Science, Vol. 4, No. 1, March 2014, ISSN |
| | 2249-7110 – National Indexed. |
| 4 | Prameelarani Bommareddi; Blessy Prabha Valsaraj; Shalini : |
| | Jacobson's progressive muscle relaxation (JPMR) training to reduce anxiety |
| | nd depressin among people living with HIV. |
| | Nitte University Journal of Health Science, Vol. 4, No. 1, March 2014, ISSN |
| | 2249-7110 – National Indexed. |
| 5 | Blessy Prabha Valsaraj; P. Valsaraj; Sripathy M Bhat; Ravindra Prabhu |
| | : |
| | Development of Dietary Guidelines for persons undergoing Haemodialysis. |
| | IOSR Journal of Nursing and Health Science (IOSR-JNHS); e-ISSN: 2320- |
| | 1959. P-ISSN: 2320-19409 Volume 3, Issue 1 Ver.II(Jan 2014). PP 31-35 – |
| | International – Indexed. |
| 6 | Malathi G. Nayak; Anice George; Vidyasagar MS: |
| | Quality of life in Family Caregivers of patients with Terminal Cancer: A |
| | Cross-Sectional Study. |
| | Indian Journal of Palliative Care / Jan-Apr 2014 / Vol-20 /Issue – 1- National |
| | Indexed |
| 7 | Manjula; Suja Karkada; Ansuya; Asha Kamath; Suneel Mundkur : |
| | An evaluative study to find the effectiveness of two methods of management |
| | of pediculosiscapitis among children of selected schools of Udupi District. |
| | IQSR Journal of Nursing and Health Science (IQSR-JNHS); e-ISSN: 2320- |
| | 1959.p-ISSN: 2320-1940 Volume 3, Issue 1 Ver.IV (Jan 2014). PP17-20 - |
| | International Indexed. |
| 8 | Suja Karkada; M. Navaneetha; Ansuya : |
| | Prevalence and Knowledge of Hypertension and Diabetes among adults in |
| | selected villages of Udupi District, Karnataka. |
| | International Journal of Advanced Research (2014), Volume 2, Issue 2, 533- |
| | 537 – International Indexed. |
| 9 | Leena Sequira ; Mamatha S. Pai : |
| | Knowledge and attitude of adults on kidney donation in selected village of |
| | ixnowinge and attitude of addits on kidney donation in science village of |



| | Udupi District, Karnataka. |
|-----|---|
| | IOSR Journal of Nursing and Health Science (IOSR-JNHS); e-ISSN: 2320- |
| | 1959.p- ISSN: 2320-1940 Volume – International Indexed |
| 10 | Shalini; Castelino, Flavia; Latha T : |
| | Opinionnaire of Staff Nurses on Situation, Background, Assessment, |
| | Recommendation (SBAR) Handoff Protocol. |
| | Journal of Nursing Science & Practice (2014); ISSN:2249-4758. Volume 4, |
| | Issue 1 – National Indexed. |
| 11 | Malathi G. Nayak; Anice George; M.S. Vidyasagar, Asha Kamath: |
| | Quality of life of family caregivers of patients with advanced cancer |
| | IOSR Journal of Nursing and Health Science (IOSR-JNHS); e-ISSN: 2320- |
| | 1959. P-ISSN: 2320-1940 Volume 3, Issue 2 Ver. 1 (May – April 2014), pp |
| | 70-75 – International Indexed. |
| 12 | Nevil Johnson Raju; Blessy Prabha Valsaraj; Judith A Norohna : |
| | Online Social Networking among Professional Students: Impact on |
| | Interpersonal Relationship |
| | International Journal of Scientific Engineering & Technology; Volume No. 3, |
| | Issue No. 3, pp : 289-202 – International indexed |
| 13 | Anice George; Renu Geethakrishnan; Preethy D'Souza: |
| 13 | Concept Mapping – A Child Health Nursing Practical Exercise |
| | Holistic Nursing Practice – January/February 2014. – International Indexed |
| 14 | · |
| 14 | Anuja B.S.; Elsa Sanatombi Devi; Leena Sequira; Lavanya Rao; Vijaya |
| | Pai H: |
| | Effectiveness of intra operative hand holding on anxiety and physiological |
| | parameters among patients undergoing cataract surgery. |
| | Nitte University Journal of Health Science: NUHS Vol. 4, No.2, June 2014, |
| 1.7 | ISSN 2249-7110 – National Indexed. |
| 15 | Elstin Mary S; Anjalin D'Souza; Erna Judith Roach: |
| | Effectiveness of a lifestyle management program on knowledge and lifestyle |
| | practice among alolescents. |
| | Nitte University Journal of Health Science: NUHS Vol. 4, No.2, June 2014, |
| 1.5 | ISSN 22497110 – National Indexed. |
| 16 | Ashly Lukose; Binu Margaret E; Bharathi R. Nayak: |
| | Effectiveness of structured teaching programme on knowledge regarding |
| | management of minor ailments among school children. |
| | Nitte University Journal of Health Science: NUHS Vol. 4, No.2, June 2014, |
| | ISSN 2249-7110 – National Indexed. |
| 17 | Castalino F; Nayak B.S.; D'Souza A: |
| | Knowledge and practices of postnatal mothers on newborn care in tertiary care |
| | hospital of Udupi District. |
| | Nitte University Journal of Health Science: NUHS Vol.4, No.2, June 2014, |
| | ISSN 2249-7110 – National Indexed. |
| 18 | Shobha; Elsa Sanatombi Devi; Anusuya Prabhu : |
| | An exploratory survey to identify the adolescents with high risk for Polycystic |
| | Ovarian Syndrome (PCOS) and to find the effectiveness of an awareness |
| | programme among student of selected pre university college of Udupi District. |
| | IOSR Journal of Nursing and Health Science (IOSR-JNHS) e-ISSN:2320-1959 |
| | p-ISSN: 2320-1940 Volume 3, Issue 3 Ver. II (May-June 2014), PP 66-69 – |
| | International Indexed. |
| 19 | Pratibha Kamath; Maria Pais; Malathi G Nayak; Clara Pramila D'Souza |
| | |
| | An awareness program on prevention of vaginal candidiasis among pregnant |
| | women. |
| L | |



| | Nitta University Javenal of Health Coinness Vol 4, No. 2, Ives 2014, ICCN |
|----|--|
| | Nitte University Journal of Health Sciences. Vol.4; No. 2; June 2014, ISSN 2249-7110 – National Indexed |
| 20 | Shiney Easo; Shashidhara Y.N.; Ansuya : |
| | Knowledge on Women's Rights among working and Non-working women of |
| | Udupi District. |
| | International Journal of Advanced Research (2014), Volume 2, Issue 4, 782- |
| | 787 – International Indexed. |
| 21 | Scaria T.M.; Valsaraj PB; Pais M: |
| | The effectiveness of Video Teaching over Lecture cum Demonstration in |
| | Improving Knowledge and Skill of Nursing students on antenatal |
| | examination.International Journal of Nursing Education, vol.5 (1), 2013, 228 – |
| | 233. |
| 22 | DOI Number : 10.5958/j.0974-9357.5.1.026 – International Indexed |
| 22 | Ashly Lukose; Binu Margaret; Bharathi R Nayak: |
| | Effectiveness of structured teaching programme on knowledge regarding |
| | management of minor ailments among school children. |
| | Nitte University Journal of Health Sciences Vol. 4, No. 2, June 2014. – National Indexed. |
| 23 | |
| 23 | Christeena Jose; Asha K Nayak; Bharathi R Nayak: Effectiveness of sensory stimulation technique on sensory perception of |
| | mentally challenged children as perceived by the caregivers in selected special |
| | schools. |
| | Indian Journal of Psychiatric Nursing 7(1). Jan. 2014 – National Indexed. |
| 24 | Anjali K.G.; Asha K. Nayak; Maxie Andrade: |
| | Effectiveness of structured activity programme on congnitive function among |
| | inmates of the destitute home. |
| | Nitte University Journal of Health Science. Vol.4, June 2014, ISSN 2249- |
| | 7110. – National Indexed. |
| 25 | Daisy T. Philip; Baby S. Nayak; Yashoda.S: |
| | Knowledge of commonly used OTC drugs among mothers of children in |
| | Udupi District, Karnataka |
| | I-manager's Journal on Nursing, Vol. 4. No. 1, February-April 2014 – National |
| | Indexed |
| 26 | Swabir S.F.; Ansuya; Malathi G. Nayak: |
| | A pre experimental study to assess effectiveness of a video awareness |
| | programme on disaster preparedness and preparation of families' disaster |
| | preparedness kit for urban adults of Udupi district, South India |
| | International Journal of Current Research, Vol.6, Issue, 06.pp.7132-7136, June 2014 – International Indexed |
| 27 | Preethy D'Souza; Anice George; Judith Noronha; Sreekumaran Nair: |
| 21 | Relevance of Evidence-based Practice in Nursing in Indian Scenario |
| | The Nursing Journal of India, May-June 2014, Vol. CV No.3 - National |
| | Indexed |
| 28 | Ashley Elizabeth Verghese; Prince Mathew; Ronald Salins; Sminu |
| | Mathew; Basil Kuriakose; Shobha: |
| | A comparative study to assess the knowledge and attitude between |
| | postgraduate Nursing students and LLB students regarding euthanasia in |
| | selected colleges of Udupi district. |
| | Nitte University Journal of Health Sciences, Vol.4, No.1, March 2014, ISSN |
| | 2249-7110 – National Indexed |
| 29 | Shobha; Elsa Sanatombi Devi; Anusuya Prabhu : |
| | An exploratory survey to identify the adolescents with high risk for Polycystic |
| | Ovarian Syndrome (PCOS) and to find the effectiveness of an awareness |



| | programme among students of selected pre-university colleges of Udupi |
|----|--|
| | district. |
| | IOSR Journal of Nursing and Health Sciences (IOSR-JNHS);e-ISSN: 2320- |
| | 1959. P-ISSN: 2320-1940 Volume 3, Issue 3 Ver. II (May-June 2014), PP66- |
| 20 | 69 – International Indexed |
| 30 | Maxie Andrade; Shreemathi Mayya; Anice George: |
| | Academic performance and nursing aptitude: A correlation |
| | International Journal of Scientific Research, Volume 3, Issue 5, May, 2014 |
| 21 | ISSN – 2277 – 8179 – International Indexed |
| 31 | Vishnu Renjith; Anice George; Jissa Donel: |
| | Psychosocial status and perceived care needs of clients with advanced stages |
| | of cancer. |
| | Journal of Internal Academic Research for Multidisciplinary; Impact Factor |
| | 1.393, ISSN: 2320-5083, Volume 2, Issue 6, July 2014. – International |
| 32 | Indexed D. L. C. L |
| 32 | Rupehali Sharma; Sangeetha Priyadarshini; Ansuya: |
| | Comparison of Growth Parameters of School Age Children According to |
| | WHO and CDS Standard Growth Norms – A Descriptive Survey |
| | International Journal of Science and Research (IJSR), ISSN (Online) 2319- |
| 33 | 7064 Volume 3; Issue 7, July 2014 – International Indexed |
| 33 | Jaicy Annie Abraham; Sequiera Leena; Sulochana B: |
| | A study to assess the teaching and learning difficulties in Clinical Teaching |
| | Learning Process as perceived by the Faculty and the students in selected |
| | colleges of Nursing University. |
| | Journal of Nursing Science & Practice; ISSN: 2249-4758 (online), ISSN: |
| 34 | 2348-957X (print), Vo. 4, Issue 2 – National Indexed |
| 34 | Soumya S; Shalini M; Pratibha : Cardiac invalidism among patients with Myocardial Infarction in Kasturba Hospital Manipal. |
| | AARJMD - Asian Academic Research Journal of Multidisciplinary. Vol. 1; |
| | Issue 23 (July 2014) ISSN: 2319-2801 International Indexed. |
| 35 | Sushila Shrestha; Suja Karkada; Melita Sheilini: |
| 33 | Effectiveness of video assisted teaching on detection of visual impairments in |
| | children among primary schools teachers. |
| | International Journal of Nursing Research and Practice, Vol. 1; No.1 (2014) |
| | January – June – International Indexed. |
| 36 | Melita Sheilini; Manjunatha Hande; Anice George; Mukhyaprana |
| | Prabhu; Mamatha S. Pai; Elsa Sanatombi Devi: |
| | Antihypertensive Treatment, Medication Non-Adherence and Factors Leading |
| | to Non-Adherence among Elderly. |
| | International Journal of Scientific Research; Vol. 3; Issue 8; Aug 2014. ISSN |
| | No.2277-8179 – International Indexed. |
| 37 | Divya K.Y; Linu Sara George; Jyothi Chakrabarthy: |
| | Career preferences of Preregistration Nursing Students: Exploratory Survey |
| | International Journal of Nursing Educatin. July – December 2014. Vol. 6; No.2 |
| | – International Indexed |
| 38 | Praful Kumar A.K.; Binu Margaret E; Jyothi R.K.; Leslie Edward S. |
| | Lewis; Hariprakash: |
| | Effectiveness of Sensitization Program on Knowledge of Staff regarding Noise |
| | in Neonatal Intensive Care Unit of Kasturba Hospital, Manipal. |
| | International Journal of Nursing Education. July – December 2014, Vol. 6. No. |
| | 2 - International Indexed. |
| 39 | K. Jayakrishnan; Shalini; Savitha : |
| | A correlative study to assess the psychological wellbeing and self-esteem |
| | |



| | among adult children of mentally ill parent/s in selected hospital of Udupi |
|----|--|
| | District. |
| | Nitte University Journal of Health Science. NUJHS Vol. 4; No. 3, September 2014, ISSN 2249-7110. – National Indexed. |
| 40 | Aradhana Viswam; Blessy Prabha Valsaraj; Tessy Treesa Jose : |
| | A comparative study to assess job satisfaction among married staff nurses and |
| | nursing faculty in selected institutions of Udupi and Mangalore Taluks. |
| | i-manager's journal on Nursing, Vol.3. No.3. August – October 2013 – |
| 41 | National Indexed. Placery Probbe Volcoroi: Shripethy M. Phot: Poyindre Probby Dinesh N. |
| 41 | Blessy Prabha Valsaraj; Shripathy M. Bhat; Ravindra Prabhu, Dinesh N: A qualitative research on the experience of Haemodialysis in South Karnataka |
| | : Lived experiences of persons undergoing Haemodialysis. |
| | Journal of Krishna Institute of Medical Sciences University JKIMSU, Vol.3, |
| | No.2, July-Dec 2014 – National Indexed |
| 42 | Nayana S. George; Sangeetha Priyadarshini; Sheela Shetty: |
| | Dysmenorrhoea among adolescent girls – characteristics and symptoms |
| | experienced during menstruation. |
| | Nitte University Journal of Health Science – NUJHS Vol.4, No.3, September |
| | 2014, ISSN 2249-7110 – National Indexed. |
| 43 | Renu G; Anice George: |
| | Childhood injury an Iceburg of Phenomenon |
| | IOSR Journal of Dental and Medical Sciences (IOSR-JDMS); e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 13, Issue 8 Ver. V (Aug 2014), PP 18-23 – |
| | International Indexed. |
| 44 | Suryapriya Balan Thovarayi; Judith Angelitta Noronha; Shobha Nayak: |
| | Knowledge of cervical cancer screening among rural Indian women: a cross |
| | sectional study. |
| | IOSR Journal of Nursing and Health Science (IOSR-JNHS), e-ISSN: 2320- |
| | 1959. P- ISSN 2320-1940 Vol.3, Issue 3 Ver.1 (May-June 2014)PP 51-55 – |
| | International Indexed. |
| 45 | Preethy D'Souza; Anice George; Sreekumaran Nai; Judith Noronha; |
| | Vishnu Renjith; B. Unnikrishnan; Shivananda Bhat: |
| | Resources for Evidence-Based Health Care: Accessibility and Availability Journal of Education and Practice; ISSN 2222-1735 (Paper) ISSN 2222-288X |
| | (online); Vol.5, No.7,2014 – International Indexed |
| 46 | Maria Pais; Muralidhar V Pai; Asha Kamath; Anice George; Judith A |
| | Noronha; Baby S Nayak; Jayaram Nambiar; Ganapathi Joisa H : |
| | Stess among Antenatal Women in India |
| | International Journal of Nursing Care. July-December, 2014, Vol. 2, No.2. |
| | pg63-67 – International Indexed |
| 47 | Ansuya; Manjula; Jane Maria Serrao: |
| | Knowledge and Practice on Safety measures among Fishermen of Udupi |
| | District |
| | International Journal of Science and Research (IJSR) ISSN (Online) 2319-7064 Volume 3 Issue 9, September 2014, PP 1169-117, International Indexed |
| 48 | S B Thovarayi; J A Noronha; S Nayak |
| 70 | Cervical Cancer Screening Practices among Rural Indian Women |
| | International Journal of Nursing Care, July- December 2014, Vol. 2, No.2, PP |
| | 73-77, International Indexed |
| 49 | Mr. Vishnu Renjith; Dr.Mamatha Sivandanda Pai ; Ms. Flavia Castalino; |
| | Dr. Anice George: |
| | Bio psychosocial wellbeing of patients with migraine. |
| | Paripex –Indian Journal of Research, November 2014, vol 3 issue 11 pg.120- |



| | pg122. Indexed Internatioanl. |
|------------|--|
| 50 | Dr. Mamatha Shivananda Pai PhD, Dr. Vijaykumar MCh, Dr. P. |
| | Santhosh Prabhu, Dr. Sundeep P.T: |
| | Effectiveness of Hospital Based Intervention On Parenting Stress Among |
| | Mothers of Pediatric Surgery Children in South India. |
| | International Journal of World Research A peer review's international journal, |
| | Vol: 1, Isuue: XI, November 2014; pg 25-pg34. Indexed Internatioanl. |
| 51 | Mrs. Fancy Paul K; Mrs. Melita Sheilini; Dr. Erna Judith Roach: |
| | "A Correlative study on parenting burden, chronic sorrow and social support |
| | among the parents of children with cerebral palsy attending cerebral palsy |
| | clinic at Udupi dist. Karnataka" |
| | Asian Academic Research Journal Of multidisciplinary. Vol. 1, issue. 27 |
| | November 2014, pp31-38 International Index |
| 52 | Binu Margaret E, Sheela Shetty, Leslie Edward Lewis, Ramesh Bhat Y: |
| 3 - | Maternal Anxiety and family support among mothers of neonates admitted in |
| | Neonatal Intensive Care Unit. |
| | IOSR Journal Of Nursing and Health Science (IOSR-JNHS). Vol.3, Issue 5 |
| | Ver.1 pp40-43.International Index |
| 53 | Mrs. Bharathi, Dr. Mamatha Shivananda Pai, Dr. Baby S. Nayak: |
| 33 | Stigma and Discrimination among Children Living with HIV (CLHIV) in |
| | South India. |
| | Asia Pacific Journal of Research. Vol:1 Issue XVIV< November 2014 |
| | |
| 54 | International Index |
| 54 | Mrs. Bharathi, Dr. Mamatha Shivananda Pai, Dr. Baby S. Nayak: |
| | Quality of life and social support among children living with HIV (CLHIV) in |
| | South India. |
| | IOSR Journal Of Nursing and Health Science (IOSR-JNHS). Vol3. Issue 6 ver |
| 55 | .II(Nov-Dec2014) PP55-58 International Index |
| 33 | Prof.Paulraj S, Dr. Elsa Sanatombi Devi: |
| | Term Paper on Osteoarthritis |
| | A Publication of Bhilai Education Trust, Vol. 1 Issue 14, March 2014. |
| <i></i> | National indexed. |
| 56 | Neethu Maria Babu, Shashidara Y.N & Manjula: |
| | Effect of community Participation on knowledge of selected vector borne |
| | diseases among the self-help groups. |
| | Nitte University Journal of Health Science. NUJHS vol.4, No.3 September |
| | 2014. National Index |
| 57 | Jyothi Chakrabarty, Vidyasagar MS, Donal Fernandes, Ganpathi Joisa, |
| | Prabha Vargese, Sreemathi Mayya.: |
| | Effectiveness of pranayama on cancer-related fatigue in breast cancer patients |
| | undergoing radiation therapy: A randomized controlled trial. |
| | International Journal of Yoga- vol.8 january-june 2015. International indexed. |
| | Pg 46-53 |
| 58 | Celastin Susan, Shashidhara Y.N., NAmia Ria Kurian: |
| | Awareness of Vitamin A Supplementation among mothers of under-five |
| | Children in selected Urban and Rural Areas. |
| | International Journal of Scientific Research. Volume:3/Issue:12/ December |
| | 2014-ISSS No.2277-8179. International Indexed. |
| 59 | Sasi Kumar, Kasturi Ramesh Adiga, Anice George: |
| | Impact of Mindfulness-based Stress Reduction (MBSR) on Depression among |
| | Elderly Residing in Residential Homes. |
| | The Nursing Journal of India PP248-251. November-December 2014 Vol.CV |
| | NO.6 Natioanl Indexed |



| 60 | Aeikierupaia Sadap, Maria Pais & Anusuya Prabhu: |
|----|---|
| | A descriptive study to assess the knowledge on breast cancer and utilization of |
| | mammogram among women in seleceted villaes of Udupi District, Karnataka. |
| | NIttie University Journal Of Health Science, NUJHS vol4;NO.4 |
| | december 2014 pg 84-87. Natioanl Indexed. |
| 61 | Mrs Minu joseph, Mrs Anusuya, Mrs Manjula: |
| | Assessment of knowledge and Utilization Of Below Poverty Line (BPL) |
| | Schemes among BPL families. |
| | ISOR journal of Nursing and health Science volume 3, Issue6 ver III(|
| | November –December 2014) pp01-05. International Index |
| 62 | Elsy N P, Nandakumar Paniadi, Maria Pais: |
| | Educational Intervention On Prevention Of Uterine Rupture. Indian Journal of |
| | Physiotherapy & Occupational Therap. April-June 2014, Vol. 8, NO. 2. pp 153- |
| | 157 National Index |
| 63 | Bency G, Maria Pias, Anusuya VP: |
| | Comparision OF Maternal comfort Between two Breastfeeding Postitions. |
| | International Journal of Nursing Education. January-June 2014 Vol 6, No.1 |
| | pp113-117. International Index. |
| 64 | Miby Baby, Sangeetha Priyadarshini, Sheela Sheety: |
| | Mothers Knowledge on Domains of Child Development. International Journal |
| (5 | of Nursing Education, January-June.2014. vol6 no.1 pg 65-68 |
| 65 | Ali A.Ammouri, Ahmad A. Raddaha, Preety Dsouza, renu |
| | Geethakrishnan, Judith A Noronha, Aewa. A. Obeidat, Lina shakman: |
| | Evidence Based Practice: Knowledge, attitudes, practice and precived Barriers |
| | among nurses in Oman. SQL: Medical Journal November 2014. Issue 4 |
| 66 | pg537-545 |
| 00 | Vinitha Dsouza, Judith Angelitta Noronha, Shobha Nayak: Social support of infertile women seeking infertility treatment: A cross |
| | sectional study. Asia Pecific Journal of Research. Vol:I issue XVIV, |
| | November 2014.pp82-89 |
| 67 | Mrs. Shejila. C.H, Dr. Mamatha Shivananda Pai, Dr. Donald J |
| | Fernandes, Dr. Anice George, Dr. Baby S Nayak, Dr, Elsa Sanantombi |
| | Devi, Dr. Joythi R. K., Dr. Stanely Mathew: |
| | Anxiety In Breast Cancer Patients, Undergoing Surgery As A Primary |
| | Treatment Modality. Asia Pacific Journal of Research a peer reviewed |
| | international Journal. Vol:I issue XX, December 2014pg17-23. |
| 68 | Shejila C H, Mamatha S Pai & Donald J Fernandes: Oncology Nurse |
| | Navigator Programme- A Narrative Review, Nitte University Journal of Health |
| | Science. Vol.5,NO.1, March 2015, pp103-107 |
| 69 | Vishnu Renjith, Anice George: |
| | (Letter to editor) Diaries help patients manage migraines. Dec 2014 Nursing |
| | 48(8) |
| 70 | Mrs. Melita Sheilini, Dr. Elsa SAnatombi Devi: |
| | Effectiveness of educational intervention o ECG monitoring and Interpretation |
| | among Nursing Students.IOSR journal of Dental And Medical Sciences. |
| | Volume 13, issue 12 ver.III de 2014. Pg 1-5 international indexed |
| 71 | Kalayan Sawant; Melita Sheilini, Flavia Castelino: |
| | A study to assess stress and coping among diabetes patients in tertiary health |
| | centre of Udupi district karnataka. |
| | A peer reviwed international journal of Asian academic research associates. |
| | Volume 1 issue 28 december 2014pg250-260 international indexed. |
| 72 | Vithoba Mahalkar, Linu Sara George, Asha Nayak: |
| | Relationship between emotional intelligence and coping strategies among |



| | Baccalaureate nursing students: An evalurative study. Indian Journal of Health | | | |
|----|--|--|--|--|
| | and well being.2014.pp1292-1295. National indexed. | | | |
| 73 | Bijoy Thomas, Immalaraju sujani, Sunitha Reji John, Dance Rogers, | | | |
| | Savita, Anil Raj: | | | |
| | "Effectiveness Of Preoperative Planned Teaching Programme On Prevention | | | |
| | Of Post-Operative Pulmonary Complications Among Patients Undergoing | | | |
| | Elective Abdominal Surgeries In Selected Hospital Of Udupi District. Asia | | | |
| | Pacific Journal Of Research. Vol: I issue XX, December 2014. Pg104- | | | |
| | 110.National indexed | | | |
| 74 | Sasi Kimar, Kasturi Ramesh Adiga, Anice George: | | | |
| | Effectiveness Of Mindful Based Stress Reduction (MBSR) On Stress And | | | |
| | Anxiety Among Elderly Residing In Homes.International Journal FO Nursing | | | |
| | Care. July-December, 2014, Vol.2, No.2 pg81-85.International Indexed. | | | |
| 75 | Rupehali Sharma; Sangeetha Priyadarshini; Ansuya : | | | |
| | Use of Body Mass Index in assessing nutritional status among school children. | | | |
| | Indian Journal of Continuing Nursing Education. Vol. 15, No.(2), July – | | | |
| | December 2014 – National Indexed. | | | |

Chapters in Books: Nil

Books published with ISBN with details of publishers - Nil

23. Details of patents and income generated – Nil

24. Areas of consultancy and income generated

INC - GFATM -7 Project on HIV/AIDS & TB

The INC-GFATM Project on Strengthening Institutional Capacity for Nursing Training on HIV/AIDS & TB in India under GFATM 7 project contributes to this strategy. This project is executed in coordination with National AIDS Control Organization and Central TB Division. The project component being implemented through the Indian Nursing Council focuses on strengthening institutional capacity for nursing training on HIV/AIDS &TB in India. The principal Recipient for this programme is the Indian Nursing Council.

Manipal College of Nursing Manipal, Manipal University, is selected as one of the Sub Sub Recipient for this project. MCON.Manipal is covering beautiful 14 Karnataka districts. Geographically Karnataka has three principle zones called coastal strip, Western Ghat and Deccan Plateu and deccanplateu is consists of large area in Karnataka. Under GFATM Project Maniapl College of Nursing, Manipal's coverage area has representation from all above three principle zones of Karnataka i.e Shivamoga, Kodagu, Chikmaglur, Hassan Dakshina Kannada, Udupi, Gadag, Uttara Kannada, Haveri, Koppala, Belgaum, Dharwad, Bellary and Davanagere likewise we tried to have participants from all regions in this year from both private and public sector.

Following are the training details till Dec 2014

Number of Nurses trained on HIV/AIDS & ART: 2029 Number of ANMs trained on HIV/AIDS & STI: 905



Number of Nurses trained on TB: 263 Number of ANMs trained on TB: 119

Number of Nursing Administrators trained: 262

There are Seven faculty from Manipal College of Nursing had undergone special training about HIV/AIDS & ART under this project to train staff nurses and 5 faculty were trainers for training on Tuberculosis. Supportive supervision of the staff nurses' is the part of this project which fosters a collaborative approach to strengthen staff nurse's performance on care support and treatment for PLHIVs. Through this way Manipal College of Nursing has become a part of NACP III, IV and RNTCP and trying to set an example for Public Private Partnership through this process. It is trying its level best to contribute towards the strengthening of public health and combat against present day's most stigmatized infection HIV/AIDS and biggest health problem of Inida TB at locally, nationally and globally.

Total Amount received till Dec 2015: Rs 2,69,05,300/-

ICMR-DHR FUNDED PROJECT on "Capacity building for nurse educators to conduct multidisciplinary research in geriatric area"

The principal investigator for the project is Dr Anice George, Dean, Manipal College of Nursing Manipal with all professors and HoDs' as co investigators. The project is of five years duration with first year for the preparation of Training module on Geriatric Health Research followed by training of trainers workshop, for the next four years there will be training workshops for nurse educators on "how to conduct multidisciplinary research in Geriatric care area". For each year we have divided the entire nursing colleges of India in to four different zones (North, east, west and south) and each zone will be covered every year. A total of 120 nurse educators divided in four groups will be trained. Thirty nurse educators will be in one group and will attend the workshop for three weeks duration. ICMR-DHR have sanctioned a total amount of rupees 55laks towards this project accomplishment.

Nursing Research Methodology Workshop

- The Manipal college of Nursing initiated the Nursing research methodology workshop for Post graduate Nursing students of Karnataka. From 24th to 26th September 2013, PG students (16) were deputed by various institutions for the workshop. The amount generated: Rs 24000.
- The same workshop was conducted again from 25th to 27th February 2014 on Nursing research Methodology workshop was conducted for 14 PG students. The amount generated: 21000/



 Workshop on systematic review was organized for the faculty of MCON to sensitize the faculty on conducting systematic review.

25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad

- Dr. Anice George visited Hocshschule, Bremen University, Germany.
- Dr. Baby S Nayak visited Middlesex University, United Kingdom as a part of exchange programme
- Mrs. Sulochana B has received an International Hemophilia Training Fellowship sponsored by World Federation of Hemophilia, Australia

26. Faculty serving in

National committees b) International committees c) Editorial Boards d) any other (please specify)

1) Dr. Anice George

- Member of the Sub-Group on Human Resources for Health under Working Group on Progress and Performance of National Rural Health Mission (NRHM) and Suggestions for Twelfth Five Year Plan (2012-17)-Ministry of Health and Family Welfare.
- Member of peer review committee of Nursing Journal of India (2011 onwards)
- Editorial Advisory board of Journal of Continuing Nursing Education, published at College of Nursing, CMC Vellore.
- Peer reviewer in the Nitte Nursing Journal, published from Nitte College of Nursing Mangalore.
- External expert member in the PhD committee (behavioural science), of NIMHANS Bangalore for three years from 28th Jan 2012.
- Executive editor of Manipal Journal of Nursing and Health Sciences, Manipal University
- Peer reviewer of Journal of Nursing Sciences of Rajiv Gandhi University of Health Sciences
- Referee for review of articles for Muller Journal of Medical Sciences and Research
- Editorial expert for Indian Journal of Nursing Studies
- Member of PhD (Nursing) committee of Indira Gandhi National Open University (IGNOU), New Delhi
- Expert member of PhD Nursing selection committee, Kerala University of Health Sciences, Kerala
- Member of Board of studies in Pediatric Nursing, Yenepoya University, Mangalore, Nitte University



- Member of Steering committee of UNESCO chair in Bioethics, Manipal University
- Member of B.Sc Nursing Syllabus Revision committee, 2004 INC.

2). Dr. Judith Noronha

- Appointed as the member of Editorial Board for International Journal of Nursing Education.
- Karnataka Chapter Secretary of Society of Midwives, India (SOMI)
- Editorial Board member of Manipal Journal of Nursing and Health Sciences, Manipal University
- Reviewer of KLE University Health Science Journal
- Reviewer in Indian Journal of Health Sciences
- Reviewer in Journal of Obstetrics and Gynaecology, published by Informa Health care
- Reviewer in Annals of Medical and Health Sciences Research

2). Dr. Erna Judith Roach

• Was Assessor in NAAC up to March 2014

3) Dr. Baby S Nayak

- Confirmed member of the Editorial Board of i-manager's Journal on Nursing on continuous term from February 2011 to December 2014.
- Appointed as the member of STM Journals' Editorial Board (Journal of Nursing Science & Practice)
- Editor-in- chief of Manipal Journal of Nursing and Health Sciences, Manipal University

4) Ms. Elsa Sanatombi Devi:

- Nominated as the Incharge of Community Services and member of Executive Committee according to the resolution of the Annual General Body meeting held on January 13, 2010 of the Association of Community Pharmacists of India (ACPI), Manipal College of Pharmaceutical Sciences, Karnataka, India.
- National editorial board member as well as executive member of Society for wound Care and Research, Manipal India.
- Associate Editor of Manipal Journal of Nursing and Health Sciences, Manipal University

5) Dr. Mamatha S Pai

• Editorial Board Member of Manipal Journal of Nursing and Health Sciences, Manipal University.

6) Dr. Linu Sara George



- Editorial Board Member of Manipal Journal of Nursing and Health Sciences, Manipal University.
- Editorial Advisory Board member of International Journal of Nursing Education,
- Editorial Advisory Board member of Nurse Researcher International Journal of Research methodology in Nursing and Health care

7) Dr. Shashidhara Y.N

 Editorial Board Member of Manipal Journal of Nursing and Health Sciences, Manipal University.

8) Dr. Tessy Treesa Jose

- Editorial Board Member of Manipal Journal of Nursing and Health Sciences, Manipal University.
- Editorial member in International Journal of Psychiatric Nursing

9) Dr.Blessy P Valsaraj

 Associate Editor of Manipal Journal of Nursing and Health Sciences, Manipal University

10) Dr. Sonia R.B D'Souza

 Associate Editor of Manipal Journal of Nursing and Health Sciences, Manipal University

11) Dr. Jyothi Chakrabarthy

Editorial Board Member of Manipal Journal of Nursing and Health Sciences,
 Manipal University.

12) Mrs. Daisy Josephine Lobo

- Instructor in American Heart Association,
- Editorial Board member of International Journal of Nursing Education
- Reviewer in STM Journal

13) Mrs. Latha T Bhat

- Editorial Board member of Indian Journal of nursing Care,
- Advisory member in Society for wound care

14) Mrs. Sulochana B

• Reviewer of Asia Pacific Journal of Oncology Nursing



27. Faculty recharging strategies

- Institution organizes three days Faculty Development Programme (FDP) every year.
- College Continuing Nursing Education (CNE) every month
- Department Continuing Nursing Education (CNE) every month
- Support for faculty to participate in workshop and Conferences.
- Department and Individual projects by the faculty

Yearly Awards for faculty

- Outstanding Research Award
- Most Accomplished Faculty Award
- Good Teacher Award
- Maximum number of presentations
- Best Published Research paper Award
- Maximum publication award

28. Student projects

Percentage of students who have done in-house projects including interdepartmental projects

Every PG student (M.Sc nursing and M.Phil nursing) carry out a research project as part of their curriculum requirement

PBBSc students carry out projects in a group of 3 students/ group.

UG Students are motivated to carryout individual projects

Research project by M.Sc Nursing students

| Sl. No | Year | Number of research projects |
|--------|------|-----------------------------|
| 1 | 2010 | 29 |
| 2 | 2011 | 29 |
| 3 | 2012 | 40 |
| 4 | 2013 | 40 |
| 5 | 2014 | 38 |

Number of research project by M.Phil Nursing students

| Sl. No | Year | Number of research projects |
|--------|------|-----------------------------|
| 1 | 2010 | 8 |
| 2 | 2011 | 5 |
| 3 | 2012 | 5 |
| 4 | 2013 | 0 |
| 5 | 2014 | 8 |



Ph.D studies by faculty (2010 - 2014)

- 1. A study of compliance of anemic adolescent high school girls (AHSG)to iron supplementation and nutritional education and to find the effectiveness of these on scholastic performance, hematological parameters and BMI in selected schools of Udupi district.- **Dr. Suja Karkada**
- 2. A study of the factors influencing drug compliance among population with chronic diseases in selected areas of Udupi district- **Dr. M. Navaneetha**
- 3. A study of prevalence and risk factors of childhood overweight/obesity and effectiveness of a multicomponent intervention on lifestyle practices, body fat and self-esteem of overweight/obese children in selected English medium schools of Udupi District.- **Dr. Baby S Nayak**
- 4. An evaluative study on Quality of life and impact of an educational package on Childhood Bronchial Asthma for Mothers of Asthmatic Children in Selected Manipal University Hospitals, Karnataka State- **Dr. Erna Judith Roach**
- 5. Effect of Psycho Educative intervention on adherence to treatment among persons with bipolar affective disorder (BPAD). **Dr. Linu Sara George**
- 6. Quality of Life and Psychosocial variables of Nurses working in selected hospitals of Udupi and Mangalore (South Canara) Districts- **Dr. Tessy Treesa Jose**
- 7. A comparative analysis of the outcome of two teaching- learning approaches adopted for teaching pharmacology, in terms of undergraduate nursing students' clinical competency in selected educational institutions of Karnataka State- **Dr. Elsa Sanatombi Devi**
- 8. Effectiveness of Pranayama on Cancer related fatigue among patients with breast cancer undergoing ration therapy in Sai Baba Cancer Centre, Kasturba Hospital.- **Dr. Jyothi R K**
- 9. A study on therapeutic compliance personality traits social support quality of life and psychiatric morbidity among chronic renal failure patients undergoing haemodialysis in a tertiary care hospital of Udupi district.- **Dr. Blessy Prabha** Valsaraj
- 10. An awareness and attitude regarding Nursing Research and it's utilization among Nurse Educators and Staff Nurses' of selected Institutions of Bangalore. - Dr. Shashidhara Y N
- 11. Effectiveness of Indian Classical Music Therapy on developmental responses of Preterm Infants admitted to a Tertiary level Neonatal Intensive Care Unit (NICU) of a selected hospital, Udupi District.- **Dr. Sonia R B D' Souza**



- 12. Development and psychometric evaluation of the tool: Aptitude towards Nursing.-**Dr. Maxie Andrade**
- 13. Development and Evaluation of evidence based practice programme among nurses' in the academic and clinical settings of Manipal University.- **Dr. Preethy D'Souza**

Percentage of students doing projects in collaboration with other universities / industry/institute-nil

- 29. Awards / recognitions received at the national and international level by
- Faculty
- Doctoral / post doctoral fellows
- Students

Faculty Awards for Paper Presentations at the Conferences/Workshops/Symposiums:

1. Dr. Anice George

- International institute of education and management New Delhi Awrded the Glory of Excellence award for outstanding achievement in the field of Education on March 2015
- Maximum publication award 2014 by Manipal College of Nursing Manipal.

2. Dr. Judith A Noronha

- Distinguished alumni Award, Fr. Muller's College of Nursing, November 2012.
- Distinguished Alumni Award, Manipal University, December 2010

3. Mrs. Sonia R B Souza: Awarded Best Paper Presentation.

- Regional Conference on Recent Trends in MCH Care organized by Alumni Association, PSG College of Nursing, Coimbatore during October 14-15, 2010., Topic: Efficacy of 'Nesting' on Cardio-Respiratory Stability of Preterm Infants.
- International conference on transcultural nursing organized by Manipal College of Nursing Manipal on 12/11/2011, Topic: An Explorative study on sociocultural taboos and misconceptions regarding food conceptions during pregnancy among tribal Women Karnataka.

4. Mrs. Jyothi R K: Stood first in the Scientific Paper Presentation competition,

 Workshop organized by St. Ann's College of Nursing, Mulki, Mangalore on 'Empowering Nursing Professionals – Bridging Theory, Research & Practice' during January 5-6, 2010, Paper topic: Application of Conceptual Framework in Research.



 Awarded Best paper Presentation, International Conference on Transcultural Nursing organized by MCON, Manipal; Mangalore & Bangalore during November 09-11, 2011 held at SyndicateBank Golden Jubilee Auditorium, Manipal.
 Topic: Effectiveness of Pranayama on cancer related fatigue among breast cancer patients receiving radiotherapy.

5. Mrs. Sheela Shetty: Best Paper Award

- National Conference on Strengthening Health Research Capacity of Nurses The Need for Evidence Based Nursing Practice organized by KLE University's Institute of Nursing Sciences, Belgaum during March 5-6, 2010. Topic: Effectiveness of self-instructional module on administration of paediatric medications among the staff nurses.
- International conference on Transcultural Nursing organized on 9-11 November 2011 by MCON Manipal Topic: Maternal beliefs and practices related to feeding and height status of children

4. Dr. Erna Judith Roach: Awarded 1st Prize: Best Oral Presenter.

 USM International Nursing Conference 2011 organized by Nursing Programme, School of Health Sciences, Health Campus, UniversitiSains Malaysia held during June 14-15, 2011, Topic: An evaluative study on quality life and impact of an educational package on childhood bronchial asthma for months of asthmatic children

5. Mrs. Latha T: Awarded Best Paper Award in the National Conference.

 National Conference on 'Redesigning Clinical Teaching – Role of a Clinical Teacher' organized by MIMS College of Nursing, Calicut held during January 4-5, 2011 at MIMS Hospital Auditorium, Calicut, Topic: Interpretive Evaluation in Nursing Education.

6. Ms. Preethy Jawahar: Awarded Best Paper Presentation

International Conference on Transcultural Nursing organized by MCON, Manipal;
 Mangalore & Bangalore during November 09-11, 2011 held at SyndicateBank Golden
 Jubilee Auditorium, Manipal, Topic: Perception on death and dying among nursing students...

7. Mr. Vishnu Renjith:

• Secured First Place in the event: Event Scientific Paper Presentation-Healthcon conducted by the Department of Nursing for the Inter-Collegiate event 'Gardenia Bat & Bol-2011 held on March 24, 2011 at Garden City College, Bangalore, Topic: Bio-psychosocial wellbeing of elderly.



• **Best paper Award:** 12th National Oncology Nursing Conference organized by Oncology Nurses Association of India, Tata Memorial Hospital, Mumbai held during August 26-28, 2010 at Tata Memorial Hospital, Mumbai.

8. Mrs. Leena Sequira

- **Secured third prize** for the paper presentation on "a survey on risk assessment of renal failure among hypertensive and diabetics in udupi district, India at 2nd USM international Nursing Conference was organized on 17th & 18th August 2014, organized by Nursing programme school of health sciences health campus, USM.Malaysia
- Secured First prize for the paper presentation on "A study to assess the reference range of estimated Glomerular Filtration Rate (eGFR) in Healthy South Indian Males –and identify clients with Chronic Renal Failure (stage I and above) with hypertension and diabetes or both A pilot study" at Epidemiology of chronic diseases –nursing research perspective was organized on Oct 25th 27th 2013 by Nursing Research Society of India and Manikala Topawala Institute of Nursing. Gujarat.
- **Best Paper** on: Nurses role in taking care of a client undergoing haemodialysis- a case study at National level conference on "Clinical Governance in Nursing the key to excellence in patient care on Nov 24-25 2014 by organized by Madras Medical Mission, Madras

Awards for Poster Presentations at the Conferences/Workshops/Symposiums:

1. Dr. Kasturi R Adiga

• Non Communicable disease workshop was organized by Manipal University and University of Alabama Birmingham USA, on 13th and 14th February 2011, Topic: Effectiveness on PTP in improving knowledge on lead poisoning among primary school children: **Awarded II Prize**

2. Dr. Judith Angelitta Noronha

• First international patient safety conference was organized by Sultan Qaboos University Sultanate of Oman on 31st January to 2nd February 2011, Topic: Patient safety: A shared responsibility of patient care. **Awarded best Poster**

3. Mrs. Sreedevi C:

• **Best Poster Award** during the International Conference on Challenges in Clinical Nursing Research organized by Government College of Nursing, Thiruvananthapuram during January 9-10, 2010.

6. Dr. Anice George:

National Conference on Redesigning Clinical Teaching – Role of a Clinical Teacher organized by MIMS College of Nursing, Calicut during January 4-5,



2011, Topic: Care Plan concept Map: An innovative strategy for clinical teaching to improve critical thinking.**Best Poster Award**

5. Mrs. Latha T:

Dept. of Child Health Nursing, MCON, Manipal & Dept. of Paediatrics, KMC, Manipal jointly organized World Breastfeeding Week-2011 on August 03, 2011 at KH, Manipal. Theme: Talk to me: Breastfeeding-A 3D Experience., Topic: Talk to me: Breastfeeding-1 3D Experience. Secured 1st prize.

6. Mr. Vishnu Renjith & Dr. Anice George:

 National Conference on Redesigning Clinical Teaching – Role of a Clinical Teacher organized by MIMS College of Nursing, Calicut during January 4-5, 2011., Topic: Clinical Teaching in a Teacher Student Practice Clinic. Best Poster Award

6. Mr. Vishnu Renjith:

• National Conference on Redesigning Clinical Teaching – Role of a Clinical Teacher organized by MIMS College of Nursing, Calicut during January 4-5, 2011, Topic: Care Plan concept Maping. Best Poster Award.

7. Mrs. Sangeetha P

• 2nd International Conference and 7th National Annual Conference of Society for Wound care CON organized on 11 to 13th October 2013 by JIPMER, Pondicherry Topic: The incidence and demographics of child abuse.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| Year | Seminar/Conferences/Worksho ps | No. of Participants | No. of resource persons | Source of funding |
|------|---|--|---|-------------------|
| 2010 | National conference on "Palliative Care Nursing" | 313 | 04 (National -03 & International -01) | Local Sponsors |
| 2010 | Regional workshop on "Emergency Nursing" | 53 | 09 | - |
| 2011 | International conference on "Transcultural Nursing" | 364 (National - 354 & International- 10) | 09 (National -04 & International -05) | Local Sponsors |
| 2012 | National Conference on Forensic Nursing | 184 | 06 | Local Sponsors |



| 2014 | International perspectives on | 400 | 04 | advantAGE |
|------|-----------------------------------|-----|----|-----------------|
| | aging: Evidence to guide clinical | | | Seniors |
| | practice | | | Consulting LLP, |
| | | | | Bangalore |
| | | | | - |

Eminent personalities who attended the conference

A) National Conference on Palliative Care Nursing 2010:

| Dr. Rajasekharan P Warrier | Dr. PrabhaAdhikari |
|--|--|
| Vice Chancellor, MU, Manipal | Professor, KMC Mangalore |
| _ | _ |
| Dr. Naveen S Salins | Dr. (Sr). Celine Payyappilly |
| Pallitative Medicine Consultant | Director, Holistic Health Centre, Pune |
| KH, Manipal | |
| Ms.Gilly Burns | Dr. BaluKolar |
| Director, Cancer Relief Fund | Final PG Scholar |
| Lecturer & Clinical Specialist in Palliative | SDM College & Hospital of Ayurveda |
| Care Nursing, UK | Udyavara |
| Dr. Mohammed Rafik | Ms. Molly Hemm |
| Medical Superintendent | Asso. Professor |
| SDM Yoga & Nature Cure, Parika | Amrita College f Nursing, Kerala |

B) 2010 - Regional workshop on "Emergency Nursing" 2010

| Mrs. Anitha C Rao, | Dr. Tom Devasia, | |
|--|---|--|
| Canara College of Nursing, Kundapur | Associate Prof. Dept. of Cardiology, KMC, | |
| | Manipal | |
| Ms. Soumya Johnson, Assoc. prof. Dept of | Mr. VeerabhadraSwamy, Lecturer, Dept. of | |
| Respiratory Therapy, MCOAHS | Psychiatric Nursing, NitteUsha Institute of | |
| | Nursing Sciences, Mangalore | |
| Lt.Col. Nirmala Robertz, Prof. and HoD | | |
| Dept. of Child Health Nursing, NitteUsha | | |
| Institute of Nursing Sciences, Mangalore | | |

C) Transcultural Nursing 2011

| Prof Jane Williams | Dr. SuvarnaNalapat | | |
|--|------------------------|--|--|
| Dean and Pro Vice Chancellor | Retd Prof and HOD | | |
| School of Health and Social Sciences | Pathology | | |
| Middle Sex University | Govt Medical College | | |
| London | Calicut, Kerala | | |
| Dr. K Lalitha | Dr. Sundaram | | |
| Professor & Head of Nursing | Associate Professor | | |
| Department of Nursing | School of Medicine, | | |
| NIMHANS Bangalore | James Cook University, | | |
| | Townsville, Australia | | |
| Dr. Sue Dyson | Capt.Ajitha Nair | | |
| Principal Lecturer | Chief of Nursing | | |
| Head of Nursing and Midwifery Research | Fortis Hospital Mohali | | |
| De Montfort University | New Delhi | | |
| London | | | |



| Mr. Ismail | Dr . Irena Papadopoulos | | |
|---------------------------|---|--|--|
| Lecturer | Founder and Head of the Research Centre | | |
| School of Health Sciences | for Transcultural Studies in Health, | | |
| Ngee Ann Polytechnic | Middlesex University UK | | |
| Singapore | | | |

D) National Conference on Forensic Nursing - 2012

| Mr. Prasanna Kumar O Reddy Associate Professor Govt College of Nursing, Fort Bangalore | Dr. Roy K George Professor & Principal Baby Memorial College of Nursing Kozhikode |
|---|--|
| Dr. VikramPalimar Associate Professor Dept of Forensic Medicine Kasturba Medical College, Manipal | Prof. Shirley David Deputy Dean CON CMC Vellore |
| Dr. PrashanthaBhagavath Associate Professor Dept of Forensic Medicine KMC Manipal | Dr. Ambarish B Principal Correspondent Deccan Chronicle Bangalore |

31. Code of ethics for research followed by the departments

- ➤ In the institution level, Institutional Research Committee (IRC) members reviews the research proposal and give the necessary approval.
- ➤ Wherever required ethical clearance are obtained from Institutional Ethical Committee (IEC) of Manipal University or Kasturba Hospital.
- ➤ Written informed consent from the participants
- > Permission will be obtained from concerned authorities.

32. Student profile course-wise: (2014-15)

| Name of the Course (refer to question no. 4) | Applications received | | cted Female | Pass percentage Male Female |
|--|-----------------------|----|-----------------------|--------------------------------|
| UG | 238 | 19 | 105 | Results awaited |
| PG | 50 | 03 | 20 | Results awaited |
| M.Phil | 10 | 03 | 07 | Results awaited |
| Ph.D * | - | - | - | - |

^{*}Did not call for structured Ph.D in Nursing.

33. Diversity of students (for the period 2014-15)



| Name of the Course (refer to question no. 4) | % of students from the same university (in number) | % of students from other universities within the State (in number) | % of students from universities outside the State (in number) | % of students from other countries (in number) |
|--|--|--|--|--|
| UG | - | 157 | 241 | 32 |
| | | (36.52%) | (56.04%) | (7.44%) |
| PG | 19 | 11 | 18 | - |
| | (39.58%) | (22.92%) | (37.5%) | |
| M.Phil (N) | 10 | 02 | 05 | - |
| | (58.82%) | (11.76%) | (29.41%) | |
| Ph.D | 02 | 03 | 01 | - |
| (structured) | (33.33%) | (50%) | (16.66%) | |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. NA

35. Student progression

| Student Progression | | | 2012 - % of Progression | | |
|--------------------------------------|---|-----------|----------------------------|------------|---------------|
| UG to PG* | 17% | 19% | 5% | 9.18% | 8.88% |
| PG to M.Phil.* | 10% | 14% | 8% | 15% | - |
| PG to Ph.D. | 20% | - | - | - | 5.26% |
| Ph.D. to Post-Doctoral | - | - | - | - | - |
| Employed | | | | | |
| Campus selection | Around 80% | | 54% | 72% | 63% |
| Other than campus recruitment | were placed : Hospital im after their g | mediately | 46% | Abroad 28% | Abroad 37% |

Note: The above data is pertaining to only those students who joined MCON Manipal for their higher studies.

36. Diversity of staff (As on 31.12.2014)

| Percentage of faculty who are graduates | B.Sc/PBB.Sc |
|--|-----------------|
| of the same university | 26 faculty, 49% |
| from other universities within the State | 16 faculty, 30% |
| from universities from other States | 11 faculty, 21% |
| from universities outside the country | nil |

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period: 10

No. of faculty Awarded Ph.D. From 2010 to 2014



| Sl.No. | Name | Year |
|--------|----------------------------|------|
| | | |
| 1. | Dr. Suja Karkada | 2010 |
| 2. | Dr. Baby S Nayak | 2011 |
| 3. | Dr. Erna Judith Roach | 2011 |
| 4. | Dr. Linu Sara George | 2011 |
| 5. | Dr. Tessy Treesa Jose | 2012 |
| 6. | Dr. Elsa Sanatombi Devi | 2012 |
| 7. | Dr. Blessy Prabha Valsaraj | 2014 |
| 8. | Dr. Jyothi R K | 2014 |
| 9. | Dr. Sonia R B D'Souza | 2014 |
| 10. | Dr. Shashidhara Y N | 2014 |

38. Present details of infrastructural facilities with regard to

a) Library

- Total area of the library (in Sq. Mts.)-13950
- > Total seating capacity-1300
- ➤ Working hours (on working days, on holidays, before examination, during examination, during vacation)
- ➤ On all days : 8.30am-11.30pm
- On Ganesh Chathurthi 8.30 am to 4.30 pm
- VijayaDashami,Deepavali
- ➤ Layout of the library
- ➤ Individual reading carrels-All reading halls have individual study cubicles
- Lounge area for browsing and relaxed reading- available
- ➤ IT zone for accessing e-resources- available
- > Clear and prominent display of floor plan- displayed
- ➤ Adequate sign boards- available
- > Fire alarm- installed
- ➤ Access to differently-abled users available
- ➤ Mode of access to collection Open Access System

Floor Plan

The Health Sciences Library is stretching on 5 levels. The organization of the various levels is given below:

Level – I:

Senior Librarian office, help desk, security desk, property counter, notice boards, group study area, circulation (issue and return) section, reference counter, EPAC user terminals,



internet kiosks, new arrivals section, reading hall, books related to Nursing Sciences, Pharmaceutical Sciences and Allied Health Sciences and photocopying section.

Level – II:

Librarian (Senior) office, fax section, reference counter, internet kiosks, new arrivals section, reading hall and books related to Medical Sciences and Dental Sciences and notice board.

Level – III:

Librarian (Senior) office, computer lab, CD and online database section, reference counter, new arrivals section, reading hall, reference books related to Medical Sciences and Dental Sciences, current periodicals, photocopying section, EPAC user terminals, internet kiosks, notice boards, display of faculty publications and private study area.

Level – IV:

Reading hall, back volumes of journals related to Medical Sciences, WHO publications, reference counter, internet kiosks, photocopying section, e-learning centre, audio - visual room, news papers and magazine section.

Level -V:

Reading hall, back volumes of journals related to Dental Sciences, Nursing Sciences, Pharmaceutical Sciences and Allied Health Sciences, reference counter, dissertations, books on Yoga and Ayurveda and old editions of books.

Department and institutional library is available for ready reference in the college

Internet facilities for staff and students –

Each faculty is provided with laptop with internet facility.

PG students can purchase laptops at subsidized rate

- **b)** Computer and internet facility are available students at central library.
- c) Total number of class rooms 10
- d) Class rooms with ICT facility- 7
- e) Students' laboratories 4 Nursing specialty labs, nutrition lab and basic science lab at KMC
- f) Research laboratories nil
- 39. List of doctoral, post-doctoral students and Research Associates
 - a) From the host university

Full time – 06

Part time - 15

b) From other universities - Nil



List of faculty who have registered Ph.D. as on 31.12.2014

| Sl.No. | Host university part time | Host university Full time | Other University |
|--------|--------------------------------|----------------------------------|---------------------|
| | Name | Name | Name |
| 1 | Mrs. Daisy Josphine Lobo | Mr. Nageshwar | Nil |
| 2 | Mrs. Maria Pais | Mr. Aldrin Vas | |
| 3 | Mrs. Leena Sequira | Mr. Ramesh C | |
| 4 | Mrs. Malathi G Nayak | Ms. Shejila C H | |
| 5 | Mrs. Sulochana B | Mr. Vishnu Renjith | |
| 6 | Mrs. Latha T | Ms. Renu G | |
| 7 | Mrs. Binu E Margaret | | |
| 8 | Mrs. Sushmitha Ramona Karkada | | |
| 9 | Mrs. Sangeetha Priyadarshini | | |
| 10 | Mrs. Melita Sheilini | | |
| 11 | Mrs. Yashoda S | | |
| 13 | Mrs. Anjalin D'Souza | | |
| 14 | Mrs. Ansuya (Community Health | | |
| | Nursing) | | |
| 15 | Mrs. Soumya Christable | | |

40. Number of post graduate students getting financial assistance from the university.

| Year | No. of students (PG) | Amount in Rupees |
|-------------|----------------------|------------------|
| 2009-10 | 03 | 40,600/- |
| 2010-11 | 04 | 48,800/- |
| 2011-12 | 06 | 2,03,500/- |
| 2012 - 2013 | Nil | |
| 2013 – 2014 | Nil | |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

- For INC GFATM project, need assessment was done by INC, where the MCON also participated in assessing the existing knowledge and attitude of nurses on HIV/AIDS.
- For starting PB DIPLOMA programme it was the felt as a need for specialized nurses to provide specialized nursing care services in the hospitals settings.
- In the Middle East, there is an increased recognition of and demand for nurses who are specialized in different clinical specialities. PB diploma programme was started for foreign students in the year 2014 as there was demand from Sultanate of Oman to train their nurses in Neuroscience nursing, Oncology nursing, Operation Room nursing and Cardiac nursing. One batch (29) of students from Oman graduated in the respective areas in 2015.
- As there were increasing demand from international institutions to specify the number of hours of instructions on geriatric nursing, Geriatric nursing course was introduced in the existing curriculum of undergraduate program.



• To keep abreast with changing trend of evidence based practice, Evidence based practice was introduced in the existing undergraduate and post graduate curriculum. In M.phil Nursing programme, evidence based practice was introduced as course.

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes.

- Reports are given by concerned subject coordinators during the monthly faculty and weekly department meetings. Wherever required modification in the teaching learning process is discussed in curriculum committee meetings, and decisions are taken.
- ➤ Feedback is discussed at institutional Management Review Meeting and at University level. Regular discussion on feedback is carried out in the department meeting as well as faculty meeting.
- > Remedial measures are taken based on the root cause

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes.

- Annual feedback from the students is obtained, discussed in the departmental and faculty meeting.
- Feedback is discussed in the faculty meeting and at institutional Management Review Meeting and at University level.
- Remedial measures are taken based on the root cause
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? Please complete
- ➤ Annual feedback from the alumni and parents is obtained, discussed in the departmental and faculty meeting
- ➤ Feedback is discussed at institutional Management Review Meeting and at University level.
- Feedback is taken from alumni members during alumni meet.

43. List the distinguished alumni of the department (maximum 10)

| Dr. Anice George | Dr. Judith Noronha |
|---|---|
| Dean, MCON, Manipal | Professor and Associate Dean, MCON, Manipal |
| Dr. Larissa Martha Sams | Dr. LathaVenkatesan |
| Principal, Laxmi Memorial College of Nursing, | Principal, Apollo College of Nursing, Chennai |



| Balmatta, Mangalore. | | |
|--|--|--|
| Dr Suja Karkada, | Dr A Jayasudha, Associate Professor, | |
| Assistant Professor, | Female College of Applied Medical | |
| Sultan Qaboos University | Sciences, King Khalid University, Ministry | |
| Oman | of Higher Education, Kingdom of Saudi | |
| | Arabia | |
| Mrs. Santy Sajan | Prof. Vijaya M Udumala, Professor & | |
| PhD-C Catholic University of America, | Principal, JMJ College of Nursing, | |
| Washington D.C. USA | Sanathnagar | |
| Dr Asha P Shetty, Principal, Yenapoya | Dr Simi Jesto Joseph, Nurse Practitioner, GI | |
| Nursing College, Deralakatte, Mangalore | Solutions, Chicago, IL | |
| | Mrs. Mary A Karkada | |
| Dr Valsamma Joseph, Principal, Govt. | Chimedi Tange III, Taconatai Intensive Care | |
| College of Nursing, Medical College P.O, | Unit, Washington Hospital centre, Washington | |
| Mg Kavu, Thrissur, Kerala | D.C USA | |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Student Nurses Association conducts workshop/ seminar every year to enrich the studens with advances in nursing profession.
- All the graduates are made to undergo six days training session on INC GFATM on HIV/ AIDS and Tuberculosis.
- Basic science subjects and few other subjects like English, Statistics etc. are taught by the experts from other constituent units of MU.
- Students are motivated to participate/ present papers in regional/ national conferences/ workshops etc.
- Total number of students who presented the papers from 2010 2014 are: 49
- Opportunity is provided to 15 academically excellent students every year to participate in expedition programme of Ngee Ann Polytechnic, Singapore.
- Students are provided with financial support to present papers at national conferences/ workshops, financial support was provided to 14 UG and PG students and 2 PhD scholars(structured)
- Financial support is also provided to the students in the form of scholarship. The detail is given in the table below

Student Scholarships

| Scholarship | No of Students | Amount |
|------------------|-------------------|-----------|
| Merit Cum Means | 61 (2013 onwards) | 2,820,000 |
| 80 % and above | | |
| SAGE scholarship | 16 (2009 onwards) | 487,800 |
| Staff Children | 58 (2009 onwards) | 4,267,100 |



| Others | 8 (2013 onwards) | 225,250 |
|---------------------|--------------------------|------------|
| Konkani Scholarship | 351 (2009 onwards) | 7,210,523 |
| PhD Scholarship | 6 students X 7 lakh apx. | 1,754,000 |
| TOTAL | | 16,764,673 |

45. List the teaching methods adopted by the faculty for different programmes.

- > Lecture
- Discussion
- Demonstration
- > Simulation
- ➤ Brain storming sessions
- > Field visits
- > Projects
- > Evidence Based Practice
- Problem Based Learning

Different clinical teaching methods such as:

- Critical thinking
- Clinical reasoning
- > Pre and post clinical conferences at clinical area
- Nursing rounds
- Concept mapping
- ➤ Role modeling
- ➤ Interpretive exercises
- ➤ Reflective learning

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- ➤ Through three sessional examinations and university examination
- > Through assignments
- > Ongoing clinical evaluation



- ➤ Model practical examination
- ➤ Evaluation criteria for formative and summative evaluation based on students learning objectives.
- Result analysis of university examination.

47. Highlight the participation of students and faculty in extension activities.

- The students of MCON have SNA (Student Nurses Association) as a unit of TNAI (Trained Nurses Association of India) that functions regularly and students participate in all the activities organized in the country.
- > Students have a health and social welfare committee through which social service activities are organized regularly.
- ➤ Nursing students and faculty members are members of Voluntary Service Organization of Manipal University.
- ➤ Each department organizes an average of 4 to 5 outreach programme as a part of their curriculum; which includes special camps, school health programmes, awareness programmes, and national day celebrations every year.
- Faculty and student are actively involved in conducting regular health education in the clinical setting, community and school like, lactation couselling, psychoeducation, breasrt feeding, diabetes clinic, hemophilia etc.
- Faculty and studnets are actively involved in Blood donation camps, Eye Camp, Dental camp etc.
- ➤ Monthly two Morbidity clinics is condcucted by Community Health Nursing department at Athrady and Marne Villages. Approximatley 480 people per year were the benificiaries of the clinic.

48. Give details of "beyond syllabus scholarly activities" of the department.

- > Students are participating in conferences, seminar, workshops and outreach programmane
- ➤ Opportunity is provided for the students to participate in outreach programmes, morbidity clinic, camps, pulse polio programme, blood donation camp, intercollegiate and inter university programmes.
- > Students participates in state level and national level student nurses association activities.



49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

- ➤ Manipal College of Nursing, Manipal is recognized by Indian Nursing Council, New Delhi and Karnataka State Nursing Council for all the educational programmes.
- ➤ Nursing degrees awarded by Manipal College of Nursing, is recognised by Singapore Nursing Board with three other nursing colleges in India, 2014.
- ➤ Manipal College of Nursing, Manipal is ranked 3rd among top nursing institutes in India, as ranked by Week (Hansa Survey 2012).
- ➤ Manipal College of Nursing Manipal, is ISO certified with ISO 9001:2008 and ISO 14001:2004

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- ➤ Each department of the college conducts atleast one primary research study per year or atleast one systematic review
- ➤ It is mandatory for M.Sc Nursing and M.phil Nursing students to conduct one research study
- > Faculty are conducting collaborative research in collaboration with other deprtment/institution of the Manipal University.
- ➤ Institution has launched a Journal titled Manipal Journal of Nursing and health sciences, with the aim to promote excellence in research and healthcare with vision to advance knowledge for practice, education, research and administration in healthcare.
- ➤ Institution received ICMR DHR funded project on "capacity building for nurse educators on Geriatric health care research", the outcome of this project will add on to the exsiting knowledge base of geriatric care.

51. Future plans of the department.

- To be the centre of excellence in nursing education, practice and research
- ➤ Adopting Electronic Family Folders for the adopted villages
- > Increase the number of research publications in national and international indexed journal with high impact factors
- > Apply and obtain grants for research studies
- ➤ Short courses on Professional development & etiquettes, Life style modification, complementary & alternative therapy and Fine arts
- ➤ Indexing the journal Manipal Journal of Nursing and Health Sciences in national and international data bases
- Publishing nursing text books



52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- 1. Supportive administration
- 2. Offering all higher education programmmes in Nursing
- 3. Good infrastructure with all amenities
- 4. Excellent Library facilities
- 5. Conducive working environment
- 6. Qualified and committed faculty members
- 7. International reputation,
- 8. 80% placement of graduates within 03 months from the announcement of results
- 9. Launched institutional journal
- 10. Opportunities and financial support for participating in international/national conferences/seminars as delegates/presenters/resource persons
- 11. 95% adherence to academic master plan
- 12. Collaboration with international universities
- 13. Faculty development opportunities
- 14. Campus recruitment
- 15. Multidisciplinary Educational Campus
- 16. Good clinical resources for hands on experience

Weaknesses

- 1. Inadequate exchange programmmes for faculty and students
- 2. Inadequate funded research projects
- 3. Lack of evidence based clinical nursing practices

Opportunities

- 1. Expertise, services and grants to increase self directed income
- 2. Organizing collaborative conferences
- 3. Multidisciplinary research
- 4. Request from publishers for authoring and editing text books

EVALUATIVE REPORT OF THE DEPARTMENT



- 5. Evidence based clinical practice
- 6. To be one among the top five colleges of nursing nationally and one among the top 100 nursing colleges internationally.

Challenges

- 1. Increasing number of nursing colleges in the state and country
- 2. Competitive courses in health care
- 3. Change in professional rules
- 4. Decline in admission rate of postgraduation programme.
- 5. Reduction in the scope for post graduate employment
- 6. Newer allied health courses with lesser couse duration.



- 1. Name of the Department: Manipal College of Pharmaceutical Sciences
- 2. Year of establishment: 1963
- 3. Is the Department part of a School/Faculty of the University?

Yes, a Constituent Institute of Manipal University

4. Names of Programmes / Courses offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, etc.):

| # | Name of the Course | | | | |
|----|----------------------------------|--|--|--|--|
| 1 | D Pharm | | | | |
| 2 | B Pharm | | | | |
| 3 | Pharm D | | | | |
| 4 | M Pharm | | | | |
| 4a | Pharmaceutics | | | | |
| 4b | Pharmaceutical Chemistry | | | | |
| 4c | Pharmacology | | | | |
| 4d | Pharmacognosy | | | | |
| 4e | Pharmaceutical Marketing | | | | |
| 4f | Pharmaceutical Administration | | | | |
| 4g | Pharmacy Practice | | | | |
| 4h | Pharmaceutical Quality Assurance | | | | |
| 4i | Pharmaceutical Biotechnology | | | | |
| 4j | Drug Regulatory Affairs | | | | |
| 5 | Pharm D Post Baccalaureate | | | | |
| 6 | Ph D | | | | |

5. Interdisciplinary courses and departments involved :

Integrated MBA with SOM, MU

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

Yes, with Napier Edinburgh University, MSc courses

7. Details of programmes / courses discontinued, if any, with reasons:



No

8. Annual/Semester/Choice Based Credit System:

Annual (As per PCI norms)

9. Participation of the department in the courses offered by other departments: NIL

10. Number of teaching posts sanctioned and filled (Professors/Associate **Professors/Asst. Professors**)

| | Sanctioned | Filled |
|--|------------|--------|
| Professor | 15 | 15 |
| Associate Professor | 25 | 25 |
| Reader | 1 | 1 |
| Assistant Professor – Selection Grade | 6 | 6 |
| Assistant Professor – Senior Scale (PhD) | 15 | 15 |
| Assistant Professor | 10 | 10 |

11. Faculty profile with name, qualification, designation and specialisation (DSc/DLitt/PhD/MPhil, etc.) (As on 31 Dec 2014)

| # | Name | Qualificatio n | Designatio n | Specialization | No. of Years of Experie nce | No. of PhD students guided |
|---|------------------------------|--------------------------|----------------------------------|----------------|---|----------------------------------|
| 1 | Dr M Sreenivasa Reddy | M Pharm Ph D | Vice Principal & Professor | Pharmaceutics | 22 | Completed-4 Ongoing-5 |
| 2 | Dr K B Koteshwara | B Sc, M Pharm Ph D | Professor & Head | Pharmaceutics | 22 | Ongoing-1 |
| 3 | Dr Mahalaxmi Rathnanand | M Pharm Ph D | Assoc. Prof. | Pharmaceutics | 20 | - |
| 4 | Dr Shaila Angela Lewis | M Pharm Ph D | Assoc. Prof. | Pharmaceutics | 12 | Ongoing-2 |
| 5 | Dr Srinivas Mutalik | M Pharm Ph D | Assoc. Prof. | Pharmaceutics | 09 | Ongoing-3 |
| 6 | Dr Usha Yogendra Nayak | M Pharm Ph D | Asst. Prof. Senior Scale. | Pharmaceutics | 05 | - |
| 7 | Mr Girish Pai | M Pharm | Asst. Prof. | Pharmaceutics | 05 | - |



| # | Name | Qualificatio n | Designatio n | Specialization | No. of Years of Experie nce | No. of PhD students guided |
|----|---------------------------------|--------------------------|-----------------------------------|-----------------------------|---|----------------------------------|
| | K | | Senior Scale | | | |
| 8 | Dr Anup Naha | M Pharm Ph D | Asst. Prof. Senior Scale | Pharmaceutics | 08 | - |
| 9 | Dr Vamshi Krishna T | M Pharm Ph D | Asst. Prof. Senior Scale | Pharmaceutics | 06 | - |
| 10 | Mr Lalit Kumar | M Pharm | Asst. Prof. | Pharmaceutics | 05 | - |
| 11 | Dr G Gautham Shenoy | M Pharm Ph D | Professor and Head | Pharmaceutical Chemistry | 23 | Completed-2 Ongoing-4 |
| 12 | Dr B S Jayashree | M Pharm Ph D | Professor | Pharmaceutical Chemistry | 27 | Completed-1 Ongoing-3 |
| 13 | Mr P V R Chowdary | M Pharm | Reader | Pharmaceutical Chemistry | 33 | - |
| 14 | Dr Suvarna G Kini | M Pharm PhD | Assoc. Prof. | Pharmaceutical Chemistry | 23 | Ongoing-2 |
| 15 | Dr Jessy Elizabeth Mathew | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Chemistry | 24 | - |
| 16 | Dr Varadaraj Bhat G. | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Chemistry | 16 | - |
| 17 | Dr KVijaya Bhasker | M Pharm Ph D | Asst. Prof. Selection Grade | Pharmaceutical Chemistry | 17 | - |
| 18 | Mr G K Sudhakar | M Sc | Asst. Prof. Selection Grade | Pharmaceutical Chemistry | 22 | - |
| 19 | Dr Alex Joseph | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Chemistry | 14 | - |
| 20 | Dr R S Jeyaprakash | M Pharm Ph D | Asst. Prof. Selection Grade | Pharmaceutical Chemistry | 12 | - |
| 21 | Mr Aravinda Pai | M Pharm | Asst. Prof. | Pharmaceutical Chemistry | 06 | - |
| 22 | Mrs Ruchi Verma | M Pharm | Asst. Prof. | Pharmaceutical Chemistry | 05 | - |
| 23 | Dr C S Shreedhara | B Sc, M Pharm Ph D | Professor | Pharmacognosy | 31 | Ongoing-4 |
| 24 | Dr M | M Pharm | Professor | Pharmacognosy | 21 | Ongoing-2 |



| # | Name | Qualificatio n | Designatio n | Specialization | No. of Years of Experie nce | No. of PhD students guided |
|----|------------------------------------|-------------------|-----------------------------------|----------------------|---|----------------------------------|
| | Manjunatha Setty | Ph D | and Head | | | |
| 25 | Dr H N Aswatha Ram | M Pharm Ph D | Assoc. Prof. | Pharmacognosy | 19 | - |
| 26 | Dr Chandrashekar K S | M Pharm Ph D | Assoc. Prof. | Pharmacognosy | 17 | Ongoing-1 |
| 27 | Dr Richard Lobo | M Pharm Ph D | Assoc. Prof. | Pharmacognosy | 10 | - |
| 28 | Dr. Saleemulla Khan | M Pharm Ph D | Asst. Prof. Selection Grade | Pharmacognosy | 12 | - |
| 29 | Mr Vasudev R Pai | M Pharm | Asst. Prof. | Pharmacognosy | 06 | - |
| 30 | Dr C Mallikarjuna Rao | M Pharm Ph D | Principal & Professor | Pharmacology | 29 | Completed-8 Ongoing-4 |
| 31 | Dr N Gopalan Kutty | M Sc Ph D | Professor | Pharmacology | 39 | Completed-4 Ongoing-2 |
| 32 | Dr Sreedhara Ranganath Pai K | M Pharm Ph D | Professor and Head | Pharmacology | 18 | Completed-1 Ongoing-6 |
| 33 | Dr Nandakumar K | M Pharm Ph D | Assoc. Prof. | Pharmacology | 10 | Ongoing-2 |
| 34 | Dr Rekha Raghuveer Shenoy | M Pharm Ph D | Assoc. Prof. | Pharmacology | 11 | - |
| 35 | Dr Yogendra Nayak | M Pharm Ph D | Assoc. Prof. | Pharmacology | 12 | - |
| 36 | Dr Jayesh Mudgal | M Pharm Ph D | Asst. Prof. Senior Scale | Pharmacology | 06 | - |
| 37 | Dr Nitesh Kumar | M Pharm Ph D | Asst. Prof. Senior Scale | Pharmacology | 05 | - |
| 38 | Mr Madhavan Nampoothiri G | M Pharm | Asst. Prof. | Pharmacology | 06 | - |
| 39 | Dr Anoop Kishore | M Pharm Ph D | Asst. Prof. Senior Scale | Pharmacology | 07 | - |
| 40 | Dr M K Unnikrishnan | M Pharm Ph D | Professor and Head | Pharmacy Practice | 29 | Completed-5 Ongoing-5 |



| # | Name | Qualificatio n | Designatio n | Specialization | No. of Years of Experie nce | No. of PhD students guided |
|----|---------------------------------|-------------------|-----------------------------------|------------------------|---|----------------------------------|
| 41 | Dr Sreedharan | M Pharm Ph D | Assoc. Prof. | Pharmacy Practice | 18 | - |
| 42 | Dr. Leelavathy D Acharya | M Pharm Ph D | Assoc. Prof. | Pharmacy Practice | 16 | - |
| 43 | Dr Vijayanarayana K | M Pharm | Assoc. Prof. | Pharmacy Practice | 15 | - |
| 44 | Dr Surulivel Rajan M | M Pharm Ph D | Assoc. Prof. | Pharmacy Practice | 13 | - |
| 45 | Dr Rajesh R | M Pharm Ph D | Asst. Prof. Selection Grade | Pharmacy Practice | 11 | - |
| 46 | Dr Rajesh V | M Pharm Ph D | Asst. Prof. Senior Scale | Pharmacy Practice | 09 | - |
| 47 | Mr Sonal Sekhar M | M Pharm | Asst. Prof. Senior Scale | Pharmacy Practice | 08 | - |
| 48 | Dr Girish Thunga P | M Pharm Ph D | Asst. Prof. Senior Scale | Pharmacy Practice | 06 | - |
| 49 | Mr Kanav Khera | M Pharm | Asst. Prof. | Pharmacy Practice | 05 | - |
| 50 | Mr Prasanna Kumar | M Pharm | Asst. Prof. Senior Scale | Pharmacy Practice | 07 | - |
| 51 | Mr Suhaj A | M Pharm | Asst. Prof. Senior Scale | Pharmacy Practice | 07 | - |
| 52 | Mr John Preshanth Kumar P | M Pharm | Asst. Prof. | Pharmacy Practice | 03 | - |
| 53 | Dr N Udupa | M Pharm Ph D | Professor | Pharmacy Management | 39 | Completed- 26 Ongoing-6 |
| 54 | Dr Anantha Nagappa Naik | M Pharm Ph D | Professor | Pharmacy Management | 31 | Completed-3 Ongoing-6 |
| 55 | Dr D Sreedhar | M Pharm Ph D | Assoc. Prof. and Head | Pharmacy Management | 12 | - |
| 56 | Dr Manthan D Janodia | M Pharm Ph D | Assoc. Prof. | Pharmacy Management | 11 | - |



| # | Name | Qualificatio n | Designatio n | Specialization | No. of Years of Experie nce | No. of PhD students guided |
|----|------------------------------------|-----------------------------------|-----------------------------------|--|---|----------------------------------|
| 57 | Dr Virendra Siddharam Ligade | M Pharm Ph D | Asst. Prof. Selection Grade | Pharmacy Management | 12 | - |
| 58 | Mr Pradeep M Muragundi | M Pharm | Asst. Prof. Senior Scale | Pharmacy Management | 10 | - |
| 59 | Dr Krishnamurthy Bhat | M Pharm Ph D | Professor and Head | Pharmaceutical Quality Assurance | 17 | Ongoing-2 |
| 60 | Dr S G Vasantharaju | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Quality Assurance | 20 | - |
| 61 | Dr Jagadish P C | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Quality Assurance | 13 | - |
| 62 | Dr Sudheer Moorkoth | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Quality Assurance | 11 | - |
| 63 | Dr Prashant B Musmade | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Quality Assurance | 10 | - |
| 64 | Dr Syed Sajjad Hussen | M Pharm Ph D | Asst. Prof. | Pharmaceutical Quality Assurance | 07 | - |
| 65 | Mr Muddukrishna B S | M Pharm | Asst. Prof. | Pharmaceutical Quality Assurance | 05 | - |
| 66 | Mr Swapnil J Dengale | M Pharm | Asst. Prof. | Pharmaceutical Quality Assurance | 03 | - |
| 67 | Dr J Venkata Rao | M Pharm PGDIMPG DHRM PhD | Professor and Head | Pharmaceutical Biotechnology | 33 | Ongoing-3 |
| 68 | Dr V M Subrahmanyam | B Pharm M Tech (BioTech) Ph D | Professor | Pharmaceutical Biotechnology | 17 | Ongoing-3 |
| 69 | Dr Raghu Chandrashekar | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Biotechnology | 07 | - |
| 70 | Dr Jesil Mathew A | M Pharm Ph D | Assoc. Prof. | Pharmaceutical Biotechnology | 13 | - |
| 71 | Mr Venkatesh | M Pharm | Asst. Prof. | Pharmaceutical | 07 | - |



| # | Name | Qualificatio n | Designatio n | Specialization | No. of Years of Experie nce | No. of PhD students guided |
|----|---------------------------|-------------------|-----------------|---------------------------------|---|----------------------------------|
| | Kamath B | | Senior Scale | Biotechnology | | |
| 72 | Mrs Angela Treasa Alex | M Pharm | Asst. Prof | Pharmaceutical Biotechnology | 05 | - |

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

| # | Name of the Faculty | Qualification | Department | Current Status |
|----|---------------------------|---|------------------------------|---|
| 1. | Dr K G Rajendran | M Sc Ph D | Pharmacy Management | Head, Medical Affairs, Eric Lifesciences, 21-31 New York Tower –A, Opp Muktidham Temple, Near Thaltej Cross Road, SG Highway, Ahmedabad - 380054 |
| 2. | Mr Dhiraj Kumar Chopra | M P harm MBA (Mkt) | Pharmacy Management | Regional Manager (Western India) Biopharmaceutical Division, Millipore India Private Limited, 701, Madison Building, Hiranandani Estate, Patlipada, Ghodbunder Road, Thane (West) 400607, Maharashtra. |
| 3. | Mr K Kiran Shankar | M Pharm | Pharm. Management | Vice President, Sagar Pharmaceuticals Herbal Healthcare Division, Bangalore Pharmaceuticals and Research laboratories Pvt. Ltd., Registered office – 45/2, 9 th BlockJayanagar, Bangalore – 560069 |
| 4. | Dr G Jagadeesh | MS (Pharmacolog y) Ph D (Pharmacolog y) | Pharmacology | Expert Pharmacologist Division of Cardio-Renal Drug Products, Center for Drug Evaluation & ResearchFood and Drug Administration, HFD-1105600 Fishers LaneRockville, MD 20857 |
| 5. | Dr Sreejayan | M Pharm Ph D | Pharmaceutic al Chemistry | Assistant Professor College of Health Sciences, School of Pharmacy, Dept.3375, 1000 E.University Avenue, Laramie, WY 82071 |
| 6. | Dr Mahesh D Burande | M Pharm, DBM, MDBA(Mark eting) | Pharmacy Management | Director Bilcare Research Academy,Adbeez/IPER, Off. No. 17, IDEAL chambers, Paud Road, Pune – 38 |



| 7. | Dr P D Gupta | Graduation PhD | Pharm. Biotechnolog y | Research Advisor 833, Churukon ka Rasta, Jaipur – 302003 |
|-----|-------------------------------|--|---|--|
| 8. | Dr K R Premnath Shenoy | M Pharm PhD | Pharm. Quality Assurance | Director, Regulatory Affairs M/S. AstraZeneca Pharma India Ltd. Avishkar, Hebbal Raod Kirloskar Business Park Bangalore – 560 024 |
| 9. | Mr R Singaravelan | M Pharm | Pharm. Quality Assurance | Head-Regulatory Affairs in Strides Acolab Ltd, Bangalore |
| 10. | Dr Dinesh B Shenoy | M Pharm Ph D | Pharmaceutics | Senior General Manager Formulation Development Services Mylan Laboratories Ltd 1-1-151/1, Sairam Towers, 4 th Floor Secunderabad - 500003 |
| 11. | Dr D B Anantha Narayana | Ph D | Pharmacogno sy | Head – Herbal Research Hindustan Unilever Ltd Research Centre, 64 Whitefield, Bangalore – 560066 |
| 12. | Dr Himadri Sen | B Pharm, M.Sc Pharmacy) PhD (Pharmacy) | Pharmacy Management | President –R&D (Generics, NDDS) & Global Quality Ranbaxy Research Laboratories 20, Sector – 18, Gurgaon – 122 001, Haryana |
| 13. | Ms Varsha Mehta | Pharm D FCCP MS | Pharmacy Practice | Clinical Associate Professor Pharmacy, Pediatrics and Communicable Diseases Clinical Pharmacist Neonatal Critical Care University of Michigan |
| 14. | Dr B Sripathi Rao | B Pharm M Pharm Ph D, LL.B | Pharmaceutic al Quality Assurance | Retired Drug Controller for the state of Karnataka #675, 2 nd Main Road 4 th Cross Road Domlur, Bangalore – 5600071 |
| 15. | Dr Sibu Chakrabarti | B Pharm M Pharm PhD | Pharmaceutics | Recognized Pharmaceutical Scientist 333 East 79 th Street, Apt. 10X New York, NY 1007 |
| 16. | Prof S K Kulkarni | M Pharm Ph. D FAMS FNASci | Pharmacology | Director Bombay College of Pharmacy Kalina, Santacruz (East), Mumbai- 400098 |
| 17. | Dr Deepak M | M Pharm Ph D | Pharmacogno sy | Senior Manager – R&D Centre Natural Remedies Pvt. Ltd Veerasandra Industrial Area, Hosur Road ,Bangalore – 560 100 |
| 18. | Dr M N A Rao | B Pharm M Pharm | Pharmaceutic al Chemistry | General Manager R & D, Divis Laboratories Ltd |



| | | Ph D | | C-34, Sanathnagar, Hyderabad – |
|-------------|----------------------|------------------------|----------------------|---|
| | | | | 500018 |
| 19. | | M Sc Pharm | Pharmaceutics | Executive Vice President |
| | Nandan Mishra | | | Akums Drugs & Pharmaceuticals |
| | | | | Ltd, 47, 48 Sector-6A, IIE, BHEL |
| | | | | Ranipur, Haridwar (UK), 249403 |
| 20. | Prof. Gregory | B Pharm, | Pharmacy | Professor of Pharmacy & Head of |
| | Peterson | PhD, MBA, | Practice | School |
| | | FSHP, FACp, | | Unit of Medication Outcomes |
| | | MPS, | | Research & Education |
| | | AACPA | | School of Pharmacy |
| | | | | Faculty of Health Sciences |
| 21 | Du Timothy E | D Dhama | Dhammaay | University of Tasmania; Australia Associate Professor |
| 21. | Dr Timothy F Chen | B Pharm, DipHPharm, | Pharmacy Practice | Faculty of Pharmacy |
| | Chen | PhD, MPS, | Practice | N511, Pharmacy & Bank Building |
| | | MSHP | | A15, The University of Sydney |
| | | WISTII | | NSW 2006 Australia |
| 22. | Dr Amit S Patel | M Sc, PhD | Pharmacy | Managing Director |
| | | ~ 0, 1 | Management | Medical Marketing Economics, |
| | | | <i>G</i> | LLC, 1200 Jefferson Avenue, Suite |
| | | | | 200,Oxford, MS 38677 |
| 23. | Dr Hieu T Tran | Post-Doctoral | Pharmacy | Founding Dean & Professor |
| | | Fellowship | Practice | College of Pharmacy, Sullivan |
| | | Pharm. D | | University, 2100 Gardiner Lane |
| | | | | Sullivan University West Campus |
| | | | | Louisville, K Y 40205 |
| 24. | Dr | M Sc | Pharmaceutics | Professor, Department of |
| | Gopalakrishna | PhD | | Pharmaceutical Sciences |
| | Pillai | | | Director, Office of Research and |
| | | | | CENTERA, College of Pharmacy, Sullivan University, 2100 Gardiner |
| | | | | Lane, Louisville, K Y 40205 |
| 25. | Dr Kotamballi | M Pharm | Pharmacology | Sr. Research Scientist |
| 23. | N Chidambara | PhD | Tharmacology | Triesta R & D, Health Care Global |
| | Murthy | | | Hospital, #8, P.Kalinga Rao Road |
| | 1/10/10/11 | | | Sudhamanagara, Bangalore-560027 |
| 26. | Dr Amit | M Pharm | Pharmaceutic | India Unit Head, Global Regulatory |
| | Khanna | | al Quality | Novartis Healthcare Pvt. Ltd. |
| | | PhD | Assurance | Building #6, Raheja Mindspace |
| | | | | Hitec City, Madhapur/Hyderabad |
| | | | | Rangareddy Distt.500081, A.P |
| 27. | Dr Gopal C | M Sc | Pharmaceutic | Scientist-F |
| | Kundu | (Chemistry) | al | National Center for Cell Science |
| | | PhD | Biotechnolog | NCCS Complex |
| | | | У | Ganeshkhind, Pune-411 007 |
| 20 | 3.4 A 1' 1 | MC | DI .: | Maharashtra, India |
| 28. | Mr Aurobindo | M Sc | Pharmaceutic | Flat-10, A1-A-Sopan Baug |
| | Roy | (Biochem) | al Riotachnolog | Panchavati Area |
| | | | Biotechnolog | Pashan Road, Pune-411008 |
| 29. | Dr Gopal | PhD | y Pharmacy | Founder, CEO, Director |
| <i>∠</i> ∫. | Muralidharan | 11110 | Practice | Dakshah Biosciences Pvt Ltd, |
| | | <u>I</u> | - 1404100 | Z mishan Diosciolicos I vi Liu, |



| | | | | Bangalore |
|-----|-----------------|---------------------------|---------------|--|
| 30. | Dr Ranjeny | MBBS | Pharmaceutics | Head, Autoimmunity Cluster, UQ |
| | Thomas | FRACP | | Diamantina Institute |
| | | MD | | Level 4 R-Wing, Building 1, |
| | | | | Princess Alexandra Hospital, |
| | | | | Brisbane, QLD, 4102, Australia |
| 31. | Dr P P Sood | M Sc | Pharmaceutic | Editor-in-Chief, |
| | | PhD | al | J.Cell Tissue Res., Elect J. Environ. |
| | | | Biotechnolog | Sci., Elect. J. Pharmacol. Therapy, |
| | | | У | Emeritus Scientist (UGC), New |
| | | | | Delhi |
| 32. | Dr Harendra S | B Sc (Pharm) | Pharmaceutics | Program Director, |
| | Parekh | PhD | | University of Queensland (UQ), |
| | | | | School of Pharmacy, Pharmacy |
| | | | | Australia Centre of Excellence, |
| | | | | Brisbane, QLD 4072, Australia |
| 33. | Dr Julius | M.D | Pharmacology | Global Program Medical Director |
| | Anthony Vaz | Dip. Pharm. | | (Critical Care) |
| | | Med | | Novartis Healthcare Pvt Ltd, |
| | | | | Building No 6, Raheja Mindspace |
| | | | | HITEC City, Madhapur, Hyderabad |
| 2.4 | D CNG: 1 | DI D | DI .: | - 500 081 |
| 34. | Dr G N Singh | PhD | Pharmaceutic | Secretary cum Scientific Director |
| | | MBA (UK) | al Quality | Indian Pharmacopocia Commission |
| | | | Assurance | - Ghaziabad, Ministry of Health & |
| 25 | Mr Kal Chatto | M.S. | Dhamaaa | Family Welfare, Govt of India Co-Founder |
| 35. | IVIT Kai Chatto | | Pharmacy | |
| | | Pharmacy Administratio | Management | Acunova Life Sciences Inc.2625 |
| | | | | Townsgate Road, Suite 330, |
| | | n | | Westlake, CA 91302 |

13. Percentage of classes taken by temporary faculty – programme-wise information

There are no temporary faculty at MCOPS

14. Programme-wise Student Teacher Ratio:

10:1

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled: 64 (As on 31 Dec 2014)

| S1 # | Designation | Total |
|------|--------------------------|-------|
| 1 | Senior Executive | 01 |
| 2 | Junior Finance Executive | - |
| 3 | Senior Clerk | 02 |
| 4 | Clerk-II | 02 |
| 5 | Clerk-I | 03 |



| 7 | Senior Technician | 03 |
|----|-------------------------------|----|
| 8 | Lab Technician-II | 06 |
| 9 | Lab Technician-I | 04 |
| 10 | Glass Blower | - |
| 11 | Senior General Duty Worker | - |
| | | |
| 12 | General Duty Worker-II | 04 |
| 13 | General Duty Worker-I | 15 |
| 14 | Senior House Keeping Staff | 02 |
| 15 | House Keeping Staff-II | 05 |
| 16 | House Keeping Staff-I | 17 |
| | Total | 64 |

16. Research thrust areas recognized by funding agencies

Nanoparticulate drug delivery, Novel drug delivery systems, Metabolic disorders, Ecology and sustainable development, anti-TB drug discovery, Analytical and Bioanalytical method development, Pharmacoeconomics, IPR related issues and Cancer biology.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

2012

| Sl. No | Name of the Research Project | Name of the funding agency | Principal Investigator | Amount approved |
|-----------|--|--|---|------------------|
| 1 | Acute & Sub-acute toxicity studies of finished products | Cholayil Pvt Ltd Chennai | Dr C Mallikarjuna Rao Pharmacology | Rs.2.25 lakhs |
| 2 | _Preparation & Evaluation of nano particulate Sunscreens containing Plant based polyphenols | _Dept of Biotechnology New Delhi | Dr Srinivas Mutalik Dept. Of Pharmaceutics | Rs 27.17 lakhs |
| 3 | Design & development of nano particulate systems for the treatment of brain cancer by way of nasal route | Depa of BiotechnologyNe w Delhi | Dr N UdupaMCOPS | Rs.3.52 lakhs |
| 4 | Intravenous test drug administation in rats | _Manipal Acunaova LtdManipal | Dr C Mallikarjun Rao Dept. Of Pharmacology | Rs 0.98 lakhs |



| | T | I | · | 1 |
|----|---|--|--|--------------------|
| 5 | Synthesis & Screening of newer analogoues of triazoles an anti-infective agents | ICMR, New Delhi | Dr Gautham Shenoy Dept of Ph. Chemistry | Rs.3.52 lakhs |
| 6 | Study the anti-cancer effect of indigenous medicinal plants bearing sesquiterpene lactones in human epithelial cancer stem cells | Dept of Biotchnology New Delhi | Dr N Udupa MCOPS | Rs.13.39 lakhs |
| 7 | Investigation of the modulation of insulin signaling pathways by novel thiazolidin-4-one derivatives and their Implications in metabolic disorders. | Science & Engineering Research Board New Delhi | Mr Anoop Kishore Dept. Of Pharmacology | _Rs 12.62 lakhs |
| 8 | Design of diphenyl ether derivetivestargeting mycobactirial enoyl acyl Carrer protien reductase | ICMR New Delhi | Dr Gautham Shenoy Ph Chemistry | Rs.23.88 Lakhs |
| 9 | Effect of turmeric extracts on Inflammatory edema and biomarkers Of inflammations in animal models | Arjuna Natural Extracts Alwaye | Dr C Mallikarjuna Rao Pharmacology | Rs.4.42 lakhs |
| 10 | Bone Morrow Derived Stem cellconditioned Media Based Anti- Wrinkle Serum | Stemputics Pvt Ltd Manipal | Dr N Udupa MCOPS | Rs.1.80 lakhs |
| 11 | Comparitive Evaluation of the Micronized Formulation of Fusidic Acid | Share of Research With KMC, Manipal | Dr Prashanth Ph Quality Assurance | Rs.2.10 lakhs |
| 12 | Pharmaceutical & patient care Research in Metabolic Syndrome | DST New Delhi | Dr Unnikrishanan Dept of Pharmacy Practice | Rs.15.38 lakh |
| 13 | Muticentric study on pharmacogeticsof schizophrenia drug therapeutic | ICMR , New Delhi | Dr N Udupa Principal | Rs.7.92 lakh |
| 14 | Equipment cost for Research Activities | DST- FIST New Delhi | Dr K M Bhat Dept Of Ph Quality | Rs.62.50 lakh |



| 15 | GPAT scholarship | AICTE New delhi | Principal | Rs.117.12 lakh |
|----|--|-----------------------------------|----------------------------|---------------------|
| 16 | WOSA | DST NewDelhi | Mrs B Meenashi Vanathi | 2,210,000.00 |
| 17 | INSPIRE Fellowship | DST NewDelhi | Dr Mallikarjuna Rao | 529,600.00 |
| 18 | Effect of turmeric extracts on inflammatory edema and biomarkers of inflammations in animal models | Arjuna Natural Extracts Alwaye | Dr Mallikarjuna Rao | 442,000.00 |
| 19 | Comparitive Evaluation of the Micronized Formulation of Fusidic Acid | Share of Research with KMC, | Dr Prashanth | 210,000.00 |
| 20 | GPAT scholarship | AICTE New delhi | Principal | Rs. 140.16 lakhs |
| 21 | Pharmaceutical & patient care Research in Metabolic Syndrome | DST NewDelhi | Dr Unnikrishanan M K | Rs. 15.38 lakhs |
| 22 | Conference | CCRAS, New Delhi | Dr N Udupa | 36,500.00 |
| 23 | Travel Grant | (DBT),New Delhi | Sonal Sekhar M | 50,000.00 |
| 24 | Fellowship | FIP | Dr Sreedharan Nair | 500 euros |
| 25 | Fellowship | FIP | Mr Prasanna Kumar K | 500 euros |

2013

| SL No | Principal Investigator | Funding Agency | Nature of the Grant | Amount (Rs) |
|----------|---------------------------|-------------------------|---|---------------|
| 1 | Dr N Udupa | ICMR, NewDelhi | Multicentric study on pharmacogenetics of schizophrenia drug therapeutics | 594,628.00 |
| 2 | Dr K M Bhat | DST- FIST, New Delhi | Equipment cost for Research Activities | 6,250,000.00 |
| 3 | MCOPS | AICTE | PG Scholarship | 11,712,000.00 |
| 4 | Dr Manthan Janodia | UGC | Post Doctoral Research | 1,196,624.00 |
| 5 | Dr N Udupa | DST, New Delhi | INSPIRE Fellowship | 226,698.00 |
| 6 | Dr N Udupa | ICMR | Seminar Grant | |



| | | | | 40,000.00 |
|----|-------------------------------------|---|--|---------------|
| 7 | Dr N Udupa | DST, New Delhi | INSPIRE Fellowship | 279,200.00 |
| 8 | Dr Mallikarjuna Rao Chamallamudi | Chennai | Cholayil Pvt Ltd | 383,000.00 |
| 9 | Mr Prateek Jain | CSIR | Foreign Travel Grant | |
| 10 | Dr N Udupa | AICTE | Faculty Development Programme | 620,000.00 |
| 11 | Dr N Udupa | Stempeutics Research Pvt Ltd., Manipal | Marrow derived Stem Cell conditioned media based Anti- wrinkle serum | 200,000.00 |
| 12 | Dr N Udupa | AICTE | Entrepreneurship Development Cell | 600,000.00 |
| 13 | Dr B S Jayashree | AICTE | Research Promotion Scheme(RPS) | 520,000.00 |
| 14 | Dr Mallikarjuna Rao Chamallamudi | AICTE | Research Promotion Scheme(RPS) | 1,150,000.00 |
| 15 | Mr Om Prakash Ranjan | ICMR | Travel Grant | 100,000.00 |
| 16 | Dr Sreenivasa Reddy M | AICTE | Research Promotional Scheme(RPS) | 1,586,667.00 |
| 17 | Mr Om Prakash Ranjan | CSIR | Foreign Travel Grant | Full Air Fare |
| 18 | Mr Prateek Jain | CSIR | Foreign Travel Grant | Full Air Fare |
| 19 | Dr Sreenivasa Reddy M | AICTE | Preparation and Charectarization of water soluble Nanoparticles using supercritical fluid technology | 1,700,000.00 |
| 20 | Dr Sreenivasa Reddy M | AICTE | Seminar Grant | 200,000.00 |
| 21 | Dr Mallikarjuna Rao Chamallamudi | AICTE | Seminar Grant | 200,000.00 |
| 22 | Mr Lalit Kumar | AICTE | | 400,000.00 |
| 23 | Dr Richard Lobo | SERB | OYS Scheme | 1,850,000.00 |
| 24 | Mr Anoop Kishore | SERB | OYS Scheme | 200,000.00 |
| 25 | Mr Prateek Jain | ICMR | Travel Grant | 100,000.00 |



| 26 | Dr Mallikarjuna Rao Chamallamudi | AICTE | MODROB | 1,040,000.00 |
|----|-------------------------------------|--|---|-------------------|
| 27 | Mr Sonal Sekhar M | Centre for International Co- operation in Science(CICS), Chennai | CINSA-CSIR- BRNS/DAE- CICS Joint Travel Fellowship | 30,000.00 |
| 28 | Mr Rajesh R | ICAR | Travel Grant | 1200 US Dollar |
| 29 | Mr Rajesh R | FIP | Fellowship | 500 euro |
| 30 | Mr Rajesh V | FIP | Fellowship | 500 euro |
| 31 | Mr Suhaj A | FIP | Fellowship | 500 euro |
| 32 | Mr Sonal Sekhar M | FIP | Fellowship | 500 euro |

2014

| Sl. No | | Name of the funding agency | Principal Investigator | Amount approved |
|-----------|--|---------------------------------------|---------------------------|--------------------|
| 1. | Screening of milk samples for the isolation of cholesterol oxidose producing lactobacillus species | VGST | Mr G Aditya Kiran | Rs 28, 000.00 |
| 2. | Acute & Chronic toxicity study of finished formulation CPL/IB0413 | Cholalyil Private Limited | Dr Nanda Kumar | Rs 5,65,775.00 |
| 3. | Design preparation and evaluation of water soluble nanoparticles | Vision Group on Science & Technology | Mr Lalith Kumar | Rs 6,00,000.00 |
| 4. | Development & Evaluation of Gastro- retentive dosage forms of a plant extract | Arjuna Natural Extracts Ltd | Dr Srinivas Mutalik | Rs 2,08,000.00 |
| 5. | Development & Evaluation of Topical Formulations | Sequent Research Ltd Laboratory | Dr Srinivas Mutalik | Rs 3,22,000.00 |
| 6. | Pharmaceutical & Patient care Research in Metabolic Syndrome | DBT, New Delhi | Dr M K Unnikrishnan | Rs 26,85,000.00 |
| 7. | AICTE | AICTE, New Delhi | Dr Rekha Shenoy | Rs 50,000.00 |
| 8. | Effect of Turmeric extracts on inflammatory edema & biomarkers of inflammation in animal models | Arjuna Natural Extracts Ltd Kerala | Dr Anoop Kishore | Rs 3,78,609.00 |



| | Formulation & | AICTE, New Delhi | Dr Shaila A | Rs |
|-----|---|-------------------------|---------------------|---|
| 9. | Evaluation of | Meth, New Benn | Lewis | 10,58,824.00 |
| ' | lacidipine nano drug | | | .,,. |
| | delivery systems | | | |
| | Evaluating the effect | M/s Enovate Biolife Pvt | Dr Nandakumar | Rs 81,800.00 |
| 10. | of test formulations on | Ltd, Mumbai | | |
| 10. | cardiac output on | | | |
| | isolated rat heart | | | |
| | experiment Acute & Chronic | Cholayil Pvt Ltd | Dr C | Rs 86,086.00 |
| | Toxcity studies of | (Nitesh) | Mallikarjuna Rao | Ks 60,000.00 |
| 11. | CPL/IB0413,a finished | (Titteshi) | Traininal Juna 1140 | |
| | product of Cholayil | | | |
| | Pvt Ltd | | | |
| | Evaluation of | M/s Enovate Biolife Pvt | Dr C | Rs 51,402.00 |
| | Inhibitory activity of | Ltd (Nanda Kumar) | Mallikarjuna Rao | |
| 12. | test formulations by | | | |
| | COM CRYSTAL- | | | |
| | BINDING ASSAY in Vero cell lines | | | |
| | Development of | M/s Sequent Research | Dr Srinivas | Rs |
| 13. | topical formulations | Ltd | Mutalik | 3,80,000.00 |
| 15. | (analysis of 94 | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | formulations) | | | |
| | Pre-clinical evaluation | M/s Enovate Biolife Pvt | Dr C | - |
| 14. | of EB-ER 01/EB-ER- | Ltd (Nanda Kumar) | Mallikarjuna Rao | |
| 1 | 02/EB-ER-03 | | | |
| | ergogenic anti-fatigue activity | | | |
| | Acute tocicity studies | M/s VLCC Healthcare | Dr C | Rs 25,820.33 |
| 15. | of finished product of | Ltd (Nitesh) | Mallikarjuna Rao | Ks 25,020.55 |
| | VLCC Healthcare Ltd | , | J | |
| | Genetic vaccine | DST, New Delhi | Mrs B Meenashi | Rs |
| | delivery systems for | | Vanathi | 22,10,000.00 |
| 16. | targeting dendritic | | | |
| 10. | cells through surface | | | |
| | modified multifuctional | | | |
| | microparticles | | | |
| | Evaluation of cytotoxic | Bharati College of | Dr C | Rs 21,124.00 |
| | & Hepatoprotective | Pharmacy, Mandya | Mallikarjuna Rao | |
| 17. | activity of test | (Nanda Kumar) | | |
| | compounds obtained | | | |
| | from Bharati College | | | |
| | of Pharmacy, Mandya | 36 1 77 ' | D G | D 7 000 00 |
| | Evaluation of | Mangalore University, | Dr C | Rs 7,000.00 |
| 18. | cytotoxicity activity of test compounds | Mangalore (Nitesh | Mallikarjuna Rao | |
| | obtained from | | | |
| | Mangalore Univ | | | |
| 1.5 | Evaluation of | GRD (PG) IMT | Dr C | Rs 15,000.00 |
| 19. | cytotoxicity and cell | Pharmacy, Dehradun | Mallikarjuna Rao | ĺ |
| | analysis of some | (Nitesh) | _ | |



| | | | I | <u> </u> |
|-----|---------------------------------------|--------------------------|--------------------|---------------|
| | herbal products of | | | |
| | GRD (PG) IMT | | | |
| | Pharmacy, Dehradun | DIT foculty of | D _v C | D = 20 224 00 |
| | Evaluation of | DIT faculty of | Dr C | Rs 20,224.00 |
| 20. | Cytotoxicity analysis | Pharmacy, Dehradun | Mallikarjuna Rao | |
| | of some samples of | (Nitesh) | | |
| | DIT faculty of | | | |
| | Pharmacy, Dehradun Evaluation of test | Enovate Biolife, | Dr C | Rs |
| | formulations EB-CJ- | Mumbai (Nanda Kumar) | | 1,32,585.00 |
| 21. | 01/ EB-CJ-02 on | Wumbai (Nanda Kumai) | Mallikarjuna Rao | 1,32,363.00 |
| 21. | Mineralization in | | | |
| | human osteoblast cell | | | |
| | lines | | | |
| 22. | Development of | Sequent Research Ltd | Dr Srinivas | Rs |
| 22. | topical formulations | Lab, Mangalore | Mutalik | 2,31,462.00 |
| | Continuous Process for | BIRAC, New Delhi | Dr Srinivas | Rs |
| | economic production | Diff. C, 110W Dollii | Mutalik | 2,10,000.00 |
| 23. | of effervescent | | Mutunk | 2,10,000.00 |
| 25. | preparations of | | | |
| | aminoacids and other | | | |
| | supplements Phase-1 | | | |
| | Development of | DST, New Delhi | Dr Srinivas | Rs |
| 24. | dandrimeric | , | Mutalik | 19,22,000.00 |
| | sunscreens containing | | | , , |
| | polyphenols | | | |
| | Evaluation of Heezon | Enovate Biolife Pvt Ltd, | Dr C | Rs |
| 25. | (E-MA-H)on cAMP & | Mumbai (Nanda Kumar) | Mallikarjuna Rao | 2,87,192.00 |
| | cGMP levels in corpus | | | |
| | cavernous tissue | | | |
| 26. | Qualitative analysis of | Getwel | Dr Krishnamurthy | Rs 36,708.00 |
| 20. | drug formulation by | PharmaceuticalsGurgaon | M Bhat | |
| | LC-MS-MS | G . D 1 T . 1 | D 0 | D. |
| 25 | Development of | Sequent Research Ltd | Dr Srinivas | Rs |
| 27. | topical formulations | Laboratory, Mangalore | Mutalik | 10,35,710.00 |
| | (including analysis of | | | |
| | 26 formulation) Evaluation of | Zodiac Pharma, Chittor | Dr C | Rs 59,832.00 |
| | aphrocdisiae activity | Dist, AP (Nitesh) | Mallikarjuna Rao | 185 37,032.00 |
| | of Safed Musli extract | Dist, III (INIUSII) | ivianikarjuna ixao | |
| 28. | U00SCB5040813, a | | | |
| | finished product of | | | |
| | Zodiac Pharma | | | |
| | | | | |
| 2.0 | Acute Tocicity Studies | VLCC Personal care | Dr C | Rs 28,118.00 |
| 29. | of Finished Product of | Limited, Gurgaon | Mallikarjuna Rao | ĺ |
| | VLCC Health Care Ltd | . 5 | | |
| | Study tha anti-cancer | DBT, New Delhi | Dr N Udupa | Rs |
| | effects of indigenous | | _ | 28,17,000.00 |
| 30. | medicinal plants | | | |
| | bearing sesquiterpene | | | |
| | lactones in human | | | |
| | epithelial cencer stem | | | |



| | cells | | | |
|-----|---|---|--------------------------|--------------------|
| 31. | Evaluation of Inhibitory activity of test formulations by COM CRYSTAL- BINDING ASSAY in vitro cell lines | M/s Ennovate Biolife Pvt Ltd (Nanda) | Dr C Mallikarjuna Rao | Rs 57,755.00 |
| 32. | Isolation & Characterization of phytoconstituents from macrosolin parasiticus (L.) Danser & evaluation of their in vitro cytotoxic activity on various cancer cell lines" | SERB, New Delhi | Dr Richard Lobo | Rs 18,50,000.00 |
| 33. | Investigation of the modulation of insulin signaling pathways by novel thiazoldin 4 one derivatives their implications in metabolic disorders | SERB, New Delhi | Dr Anoop Kishore | Rs 12,62,000.00 |
| 34. | Design, Synthesis and evaluation of diphenyl ether based phyridine derivatives as Antitubercular agents" | DBT, New Delhi | Ms Ruchi Verma | Rs 4,00,000.00 |
| 35. | Design, Synthesis and evaluation of diphenyl ether based phyridine derivatives as Anti- tubercular agents | DBT, New Delhi | Dr Usha Y Nayak | Rs 5,10,000.00 |
| 36. | Evaluation of Heezon (E-MA-H) on cAMP & cGMP levels in corpus cavernous tissue | Enovate Biolife Pvt Ltd, Mumbai | Dr C Mallikarjuna Rao | Rs 2,87,192.00 |
| 37. | Evaluating the effect of test formulations on cardiac output on isolated rat heart experiment | M/s Enovate Biolife Pvt Ltd, Mumbai | Dr K Nandakumar | Rs 81,800.00 |
| 38. | "Evaluation of Cholayil formations for anti-aging, anti stress, hematinic and immunomodulatory activities" | Cholayil Pvt Ltd | Dr C Mallikarjuna Rao | Rs 5,38,148.00 |
| 39. | Evaluation of cytoxicity studies of test compounds | Yenapoya Medical College, Mangalore | Dr C Mallikarjuna Rao | Rs 1,700.00 |



| | | | 1 | I |
|-----|--|---|------------------------------|----------------------|
| | obtained from mangalore | | | |
| 40. | Evaluation of cytoxicity studies of test compounds obtained from mangalore | Mangalore University | Dr C Mallikarjuna Rao | Rs 2,700.00 |
| 41. | Evaluation of cytoxicity studies of test compounds obtained from mangalor | Anant V Bhamdarkar, Goa College of Pharmacy, Goa | Dr C Mallikarjuna Rao | Rs 5,055.00 |
| 42. | Research Project entitled: "Development of liposomal formulations containing inhibitory drugs" | University of Queensland, Australia | Dr Sreenivas Mutalik | AUD 18840 |
| 43. | Crusade against neoplasia and challenges in targeting tumor-specific nuclear machinery during January 21 – 23, 2014 | AICTE, New Delhi Seminar/ Workshop Grant | Dr C Mallikarjuna Rao | Rs 1,00,000.00 |
| 44. | Nanomedicines: Risk and Benefit Ratio during January 24-25, 2014 | AICTE, New Delhi Seminar/ Workshop Grant | Dr Sreenivasa Reddy | Rs 1,99,726.00 |
| 45. | Quality Improvement Programme | AICTE, New Delhi Seminar/ Workshop Grant | Principal | Rs 1,03,16,291.00 |
| 46. | Travel Grant | Science & Engineering Research Board SERB, New Delhi | Mr Syed Sajjd Hussen | Rs 88,819.00 |
| 47. | Travel grant | Government of India, Ministry of Science & Technology, Department of Biotechnology, New Delhi | Mr Prateek Jain | Rs 44,400.00 |
| 48. | Travel Grant | DBT-CTEP Management Cell, The Energy and Resources Institute, New Delhi | Ms Pallavi Krishna Shetty | Rs 44,288.00 |
| 49. | Travel Grant | Science & Engineering Research Board SERB, New Delhi | Mr Neetinkumar D Reddy | Rs 24,602.00 |
| 50. | Travel Grant | Science & Engineering Research Board, New Delhi (SERB) | Jagani Hitesh Vitthal | Rs 48,899.00 |
| 51. | Travel Grant | Council of Scientific & Industrial Research, | Mr Prateek Jain | Rs 37,829.00 |



| | | New Delhi (CSIR) | | |
|-----|---|---|------------------------------|-------------------|
| 52. | Air fare, Visa fare and registration fee to attend International conference | ICMR - Impact of Patient Education on health-related quality of life of Diabetic Foot Ulcer Patients-A Randomised controlled Study in the 5 th FIP- PSWC held during April 13-16, 2014 in Melbourne, Australia | Mr Sonal Sekhar | Rs 1,00,000.00 |
| 53. | Antimicrobial Stewardship Observership program at Tufts Medical Center, Boston, USA | FIP Pharmabridge | Mr John Preshanth KP | Rs. 38,000.00 |
| 54. | UGC, New Delhi | 300 Raman Post Doctoral Fellowship | Dr Manthan D Janodia | Rs 23,03,264.00 |
| 55. | Government of India Ministry of Science & Technology, DST | Fellowship for students pursuing full-time doctoral (Phd) Program | Ms Shoja M H | Rs 7,87,698.00 |
| 56. | UGC, New Delhi | JRF in Science, Humanities & Social Sciences | Mr Asim Priyendu | Rs 2,07,000.00 |
| 57. | DST, New Delhi | DST /Inspire Fellowship | Mr Prateek Jain | Rs 2,57,600.00 |
| 58. | DST, New Delhi | DST / Inspire Fellowship | Mr Devkar Raviraj Anand | Rs 2,57,600.00 |
| 59. | DST, New Delhi | DST/Inspire Fellowship | Ms Managuli Renuka Suresh | Rs 2,57,600.00 |
| 60. | DST, New Delhi | DST/Inspire Fellowship | Ms Atuya M | Rs 2,84,000.00 |

18. Inter-institutional collaborative projects and grants received

- a) All India collaboration: Research collaboration/MOU with a) Dr. Annapoorni Rangarajan, Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore-560012. b) Dr Indira Priyadarshini of BARC, Mumbai.
- b) International: MMDRC/European studies project on ecology; Bristol Labs, UK project; Queensland University, Australia; University of Wyoming, USA.Molecular Neurotherapy and Imaging Laboratory at Massachusetts General Hospital and affiliated to Harvard Medical School, Boston, MA, USA ("MNIL") represented by its Director Dr. Khalid Shah.

The general purpose of this MOU is to facilitate academic and research cooperation between the parties hereunder based upon the principles of mutual benefit, joint



educational and research activities, Exchange of visiting scholars and faculty for the purpose of conducting research. Extend invitations for attending scholarly and technical meetings as well as national and international conferences. (refereQ.No 19 for details of grants received)

between/among different departments /schools of the university departments

Departments within MCOPS share resources freely. Research scholars admitted in some departments are often allotted labs in other departments for carrying out benchwork. Resources such as distilled water, facilities like spectroscopy, tissue culture experiments etc. are routinely shared between departments.

collaboration with national/international institutes / industries.

Several reputed national and international institutions are collaborating with MCOPS. A cursory glance at the authors' affiliation in the various publications and patents would illustrate this point. The following national and international institutions have been engaged in collaborative research with MCOPS

- 1. Bhabha Atomic Research Centre, Mumbai
- 2. Indian Institute of Science, Bangalore
- 3. University of Hyderabad
- 4. Centre for Cellular and Molecular Biology, Hyderabad
- 5. Wyoming State University, Laramie, USA
- 6. University of Southern Queensland, Australia
- 7. University of Brighton, UK
- 8. Napier University, UK
- 9. Massachusetts General Hospital and affiliated to Harvard Medical School, Boston, MA, USA ("MNIL")

Further, the following industries are affiliated to Manipal University in various joint research programmes

- 1. Ranbaxy Labs
- 2. US Vitamins
- 3. Bristol Labs, UK
- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.: 2013-14



| Sl No | Name of the funding agency | Name of the Research Project | Amount(RS.) |
|----------|---|---|--------------|
| 1. | Vision Group on Science & Technology | Screening of milk samples for the isolation of cholesterol oxidose producing lactobacillus species | 28, 000.00 |
| 2. | Vision Group on Science & Technology | Design preparation and evaluation of water soluble nanoparticles | 6,00,000.00 |
| 3. | DBT, New Delhi | Pharmaceutical & Patient care Research in Metabolic Syndrome | 26,85,000.00 |
| 4. | AICTE, New Delhi | AICTE | 50,000.00 |
| 5. | AICTE, New Delhi | Formulation & Evaluation of lacidipine nano drug delivery systems | 10,58,824.00 |
| 6. | DST, New Delhi | Genetic vaccine delivery systems for targeting dendritic cells through surface modified multifuctional microparticles | 22,10,000.00 |
| 7. | BIRAC, New Delhi | Continuous Process for economic production of effervescent preparations of aminoacids and other supplements Phase-1 | 2,10,000.00 |
| 8. | DST, New Delhi | Development of dandrimeric sunscreens containing polyphenols | 19,22,000.00 |
| 9. | DBT, New Delhi | Study tha anti-cancer effects of indigenous medicinal plants bearing sesquiterpene lactones in human epithelial cencer stem cells | 28,17,000.00 |
| 10. | DBT, New Delhi | Design, Synthesis and evaluation of diphenyl ether based phyridine derivatives as Antitubercular agents" | 4,00,000.00 |
| 11. | DBT, New Delhi | Design, Synthesis and evaluation of diphenyl ether based phyridine derivatives as Anti-tubercular agents | 5,10,000.00 |
| 12. | Enovate Biolife Pvt Ltd, Mumbai | Evaluation of Heezon (E-MA-H) on cAMP & cGMP levels in corpus cavernous tissue | 2,87,192.00 |
| 13. | M/s Enovate Biolife Pvt Ltd, Mumbai | Evaluating the effect of test formulations on cardiac output on isolated rat heart experiment | 81,800.00 |
| 14. | AICTE, New Delhi Seminar/ Workshop Grant | Crusade against neoplasia and challenges in targeting tumor-specific nuclear machinery during January 21 – 23, 2014 | 1,00,000.00 |
| 15. | AICTE, New Delhi Seminar/ Workshop Grant | Nanomedicines: Risk and Benefit Ratio during January 24-25, 2014 | 1,99,726.00 |



| 16. | AICTE, New Delhi Seminar/ Workshop Grant | Quality Improvement Programme | 1,03,16,291.00 |
|-----|---|---|----------------|
| 17. | Science & Engineering Research Board SERB, New Delhi | Travel Grant | 88,819.00 |
| 18. | Government of India, | Travel grant | 44,400.00 |
| 19. | DBT-CTEP Management | Travel Grant | 44,288.00 |
| 20. | Science & Engineering Research Board SERB, New Delhi | Travel Grant | 24,602.00 |
| 21. | Science & Engineering Research Board, New Delhi (SERB) | Travel Grant | 48,899.00 |
| 22. | Council of Scientific & Industrial Research, New Delhi (CSIR) | Travel Grant | 37,829.00 |
| 23. | ICMR - Impact of Patient Education on health-related quality of life of Diabetic Foot Ulcer Patients-A Randomised controlled Study in the 5 th FIP- PSWC held during April 13-16, 2014 in Melbourne, Australia | Air fare, Visa fare and registration fee to attend International conference | 1,00,000.00 |
| 24. | FIP Pharmabridge | Antimicrobial Stewardship Observership program at Tufts Medical Center, Boston, USA | 38,000.00 |
| 25. | 300 Raman Post Doctoral Fellowship | UGC, New Delhi | 23,03,264.00 |
| 26. | Fellowship for students pursuing full-time doctoral (Phd) Program | Government of India Ministry of Science & Technology, DST | 7,87,698.00 |
| 27. | JRF in Science, Humanities & Social Sciences | UGC, New Delhi | 2,07,000.00 |
| 28. | DST /Inspire Fellowship | DST, New Delhi | 2,57,600.00 |
| 29. | DST / Inspire Fellowship | DST, New Delhi | 2,57,600.00 |
| 30. | DST/Inspire Fellowship | DST, New Delhi | 2,57,600.00 |
| 31. | DST/Inspire Fellowship | DST, New Delhi | 2,84,000.00 |

2012-13



| Sl No | Name of the funding agency | Name of the Research Project | Amount (RS.) | |
|----------|--|---|-----------------|--|
| 1. | ICMR, New Delhi | Muticentric study on pharmacogetics IPC Annual Commemoration Symposium | Rs.7.92 lakh | |
| 2. | DST- FIST, New Delhi | Development of new chemical entities for metabolic disorders and tropical diseases – funded by DST- FIST, New Delh | Rs.62.50 lakh | |
| 3 | Cholayil Pvt Ltd, Chennai | Acute and Chronic toxicity studies of CPL/ IB0413, a finished product of Cholayil Pvt Ltd | Rs.3.83 lakh | |
| 4 | Dept of Biotchnology, New Delhi | Study the anti-cancer effect of indigenous medicinal plants bearing sesquiterpene lactones in human epithelial cancer stem cells | Rs. 13.39 lakhs | |
| 5 | Stempeutics Research Pvt Ltd, Manipal | Marrow derived Stem Cell conditioned media based Anti-wrinkle serum | Rs 2.00 lakhs | |
| 6 | AICTE, New Delhi | Entrepreneurship Development Cell | Rs.6.00 lakhs | |
| 7 | AICTE, New Delhi | Preparation and Charectarization of water soluble Nanoparticles using supercritical fluid technology | Rs 17.00 lakhs | |
| 8 | AICTE, New Delhi | Evaluation of Glycosmis Pentapylla Dc for Histone Deacetylase Inhibition Rs.11.50 la | | |
| 9 | AICTE, New Delhi | Design and Synthesis of Novel Flavopiridol Analogues as useful Anticer Agents | Rs 5.20 lakhs | |
| 10 | SERB, New Delhi | Isolation & Characterization of Phytoconstitutents from Macrosolin paraciticus Danser and evaluation of their in vitro cytotoxicactivity on various cancer cell lines | | |
| 11 | Cholayil Pvt Ltd | Aute and Chronic Toxicity Study of CPL/IBO413 | Rs.1.07 lakhs | |
| 12 | Enovate Pvt Ltd | Evaluation of test formulations EB-CJ- 01/02 on mineralization/ calcium deposition in human osteoblast cell lines | Rs.1.50 lakhs | |
| 13 | AICTE, New Delhi | Development & Evaluation of Liposomal Carrier Systems of Hepato- protective Agents to Target the Liver | | |
| 14 | Enovate Biolife Ltd, Mumbai | Preclinical Evaluation of E-ER-01/02/03 for Anxiolytic and antifatigue activity Anticer Agents Rs .0.36 lakhs | | |
| 15 | SERB, New Delhi | Development of novel quercetin analogues intended for selective HDAC-8 inhibition as benificiel anti cancer agents Rs.22.18 lakh | | |
| 16 | SERB, New Delhi | Novel non ulcerogenic small molecules chemical synthesis and biological efficacy in chronic inflammatory disorders Rs .18.80 lakhs | | |
| 17 | ICMR, New Delhi | Chloroquine(CQ) | Rs.1.50 lakhs | |
| 18 | AICTE, New Delhi | Career Award for Young Teachers | Rs.1.50 lakhs | |



| 19 | Enovate Biolife Pvt. Ltd | Evaluation of test formulations E-B-CJ-01/EB-CJ-02 on mineralization in human osteoblast cell lines & Evaluation of test formulations on mineralization/calcium deposition in human osteoblast cell lines | 262,929.00 |
|----|--|---|-----------------|
| 20 | Government of India, Ministry of Science & Technology, Department of Biotechnology | Preparation and evaluation of nano particulate sunscreens containing plant based polyphenols | 2,417,000.00 |
| 21 | Duphat-2013, Dubai (March 2013)- Travel Grant | DBT (Not Availed) & Manipal University | Rs 25,000/- |
| 22 | Duphat-2013, Dubai (March 2013) - Travel Grant | DST and DBT (Not Availed) | Rs 23,229/- |
| 23 | AAPS National Biotechnology conference, San Diego, California, USA (May 2013) - Travel Grant | DST, DBT, CSIR (Not Availed) | |
| 24 | 73 rd FIP World Congress, Dublin, Ireland (September 2013) - Travel Grant | DBT and CSIR (Not Availed) | Rs 1,28,000/- |
| 25 | 3 rd World Conference on Cancer Science and Therapy, Double Tree by Hilton, San Francisco, California, USA (October 2013) - Travel Grant | Dr N Udupa Travel Grant | Rs 3,000/- |
| 26 | AAPS Annual Meeting and Exposition, San Antonio, Texas, USA (November 2013) - Travel Grant | Indian Council of Medical Research (ICMR) | Rs 1,00,000/- |
| 27 | Nanotoday2013, Singapore (December 2013) - Travel Grant | Manipal University | Rs 25,000/- |
| 28 | Nanotoday2013, Singapore (December 2013) - Travel Grant | DST, New Delhi | Rs 49,000/- |
| 29 | Screening of milk samples for isolation of cholesterol oxidase producing tactobacillus species- Travel Grant | VGST - Spice | Rs 30,000/- |
| 30 | Fellowship Grant: Dr Manthan D Janodia, Department of Pharmacy Management has received a fellowship grant of Rs 11 lakhs to visit | USA under 300 Roman Fellows for Post Doctoral Studies in USA under Indo-US 21st Century Knowledge initiative for a period of one year from August 2013. | Rs. 11.00 lakhs |



| Sl No | Name of the funding agency | Name of the Research Project | Amount(RS.) |
|----------|---|---|---------------|
| 1 | DST,DBT, New Delhi | Design & Development Of Nanoparticulate System For The Treatment Of Brain Cancer By Way Nasal Route | 777,000.00 |
| 2 | DST, GOVT. OF INDIA | Development Of Novel Drug Carriers For Effective Treatment Of Cancer By Way Of Targetting | 1,000,000.00 |
| 3 | ICMR, New Delhi | Design Of Diphenyl Ether Derivatives Targeting Mycobactarial Enoyl Acyl Carrier Protien Reductase | 392,854.00 |
| 4 | ICMR, New Delhi | Design Of Diphenyl Ether Derivatives Targeting Mycobactarial Enoyl Acyl Carrier Protien Reductase (2nd Yr.) | 793,060.00 |
| 5 | DST, DBT, New Delhi | Preparation And Evalution Of Nano Particulate Sunscreens Containing Plant Based Polyphenols | 1,758,000.00 |
| 6 | DST, New Delhi (Indo- Queensland) | Pharmaceutical & Patient Care Research In Metabolic Syndrome | 1,538,000.00 |
| 7 | ICMR, New Delhi | Multicentric Study On Pharmacogetics Of Schizophrenia Drug Therapeutic | 396,000.00 |
| 8 | AICTE , New Delhi | Development And Evaluation Of Herbal Dietary Supplement For The Management Of Diabetes Mellitus | 517,500.00 |
| 9 | CHOLAYIL PVT LTD | Acute And Sub Acute Toxicity Of Finished Formulation From Cholayil Pvt Ltd | 61,910.00 |
| 10 | AICTE, PG Scholarship | GATE | 11,232,000.00 |
| 11 | RPS, AICTE | Dr. N Gopalan Kutty | 1,375,000.00 |
| 12 | AICTE, MODROBS | Dr. N Udupa | 880,000.00 |
| 13 | AICTE, RPS | Dr Saleemulla Khan | 517,500.00 |
| 14 | DST, INSPIRE (JRF-P) | Ms Geetha Mathew | |
| 15 | DST, INSPIRE (JRF-P) | Ms Atulya M | |

2010-2011

| | Name of funding agency | Name of the grant | Co-ordinator | Amount sanctioned (Rs) |
|--|------------------------|-------------------|--------------|------------------------|
|--|------------------------|-------------------|--------------|------------------------|



| 1 | DST - Dept. of Biotechnology | Design & Development Of Nanoparticulate System For The Treatment Of Brain Cancer By Way Nasal Route | Dr N Udupa Biotechnology Dept. | 852,000.00 |
|----|---------------------------------|--|---|--------------|
| 2 | DST, Govt. of India | Development Of Novel Drug Carriers For Effective Treatment Of Cancer By Way Of Targetting | Dr N Udupa Pharmaceutics | 1,862,000.00 |
| 3 | Indus Biotech PVT Ltd, Pune | Evaluation of Ind 02 For Its Protective Effect Against Carboplatin Induced | Dr C Mallikarjun Rao, Pharmacology Dept | 250,688.50 |
| 4 | DST, Govt. of India | Study The Anti Cancer Effects Of Indigenous Medicinal Plants Bearing Sesquiterpene Lactones In Human Epithelial Cancer Stem Cells | Dr. N Udupa | 2,617,000.00 |
| 5 | AICTE, New Delhi | Angularly Fused Heterocycles: Molecular Modeling & Screening Dihydrofolate Reductase (DHFR) And Thymidylate Synthase (TS)Inhiditator For Potential Tumor Targeting | S D Vachala Pharma Chemistry | 850,000.00 |
| 6 | AICTE, New Delhi | Role Of Phytochemicals In Oral Anticancer Theraphy - A Perspective From Effective Drug Deliver | Dr Shriram Patak, Quality Assurance | 900,000.00 |
| 7 | AICTE, New Delhi | Staff Development Programme | Dr. N Udupa | 200000 |
| 8 | AICTE, New Delhi | Travel Grant | Dr Manthan D Janodia | 60260 |
| 9 | AICTE, New Delhi | MODROBS | Dr. N Udupa | 1500000 |
| 10 | AICTE, New Delhi | RPS | Dr Shriram M Pathak | 900000 |
| 11 | AICTE, New Delhi | RPS | Ms S D Vachala | 850000 |
| 12 | AICTE, New Delhi | MODROBS | Dr B S Jayashree | 1500000 |



20. Research facility / centre with : state recognition, national recognition, international recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate **bodies**

- DST-FIST Lab: The instrument available in the DST-FIST lab:-, LCMS, HPLC, Autoanalyser, Inverted microscope, UV spectrophotometer, PCR, Digital Polygraph Extruder and spheroidizer, Microtome, Lyophiliser Microfluidizer,
- MCOPS has been awarded aRs 1.3 Crore DST research grant in collaboration with the US Vitamins Ltd, Mumbai for the development of biodegradable sustained release formulations.
- AICTE-NCP grant for research laboratory.

22. Research output in last three years

| | | 2010 | 2011 | 2012 | 2013 | 2014 |
|--|-----------------------|------|------|------|------|------|
| Completed fund | led research projects | 06 | 08 | 22 | 24 | 19 |
| Completed non-funded research projects | | 108 | 103 | 105 | 113 | 123 |
| Completed PhD | research projects | 13 | 9 | 11 | 11 | 14 |
| Completed PG research projects | | 108 | 103 | 105 | 113 | 123 |
| Completed UG research projects | | NA | NA | NA | 29 | 24 |
| Publications | International | 56 | 56 | 43 | 104 | 72 |
| Publications | National | 84 | 61 | 69 | 46 | 31 |
| Books | | 0 | 1 | 2 | 1 | 3 |
| Chapters in books | | 3 | 11 | 1 | 2 | 3 |
| Conference | International | 22 | 86 | 60 | 71 | 52 |
| presentations | National | 41 | 38 | 20 | 49 | 53 |

Publications

Number of papers published in peer reviewed journals (national / international)

| # | Year | No. of Papers published |
|---|------|-------------------------|
| 1 | 2014 | 103 |
| 2 | 2013 | 150 |
| 3 | 2012 | 112 |
| 4 | 2011 | 117 |
| 5 | 2010 | 140 |

Publications in 2014 (Total Publications 103)

M Sonal Sekhar, MK Unnikrishnan, K Vijayanarayana, Gabriel Sunil Rodrigues, 1. Chiranjay Mukhopadhyay.



Topical application/formulation of probiotics: Will it be a novel treatment approach for diabetic foot ulcer?

Medical Hypotheses. 2014, 82, 86-88.

2. Jayesh Mudgal, Vasantharaju S Gowdra, Geetha Mathew, Pawan G Nayak, Nitin D Reddy, Neelesh Namdeo, Ravilla R Kumar, Chaitanya Kantamaneni, Mallikarjuna R Chamallamudi, Gopalan K Nampurath.

Remedial effects of novel 2,3 - disubstituted thiazolidin - 4-ones in chemical mediated inflammation.

Chemico-Biological Interactions. 2014, 210, 34-42.

3. Girish Pai K and M Sreenivasa Reddy.

Formulation and Evaluation of Extended Release Ocular Inserts prepared from Synthetic and Natural Biodegradable - Biocompatible Polymers.

Research Journal of Pharmaceutical and Technology; January 2014, 7(1), 48 - 51.

4. Phani Krishna Kondamudi, Hemalatha Kovelamudi, Geetha Mathew, Pawan G Nayak, Mallikarjuna C Rao and Rekha R Shenoy.

Investigation of Sesamol on Myeloperoxidase and Colon Morphology in Acetic Acid - Induced Inflammatory Bowel Disorder in Albino Rats.

The Scientific World Journal, Jan 2014, 1-7.

5. Muddukrishna BS, Krishnamurthy Bhat and Gautham G Shenoy.

Preparation and Solid State Characterization of Paclitaxel Cocrystals.

Research Journal of Pharmaceutics & Technology, Jan 2014, 7(1); 64-69.

6. Raghu Jetti, Raghuveer CV, Mallikarjuna Rao C, Somayaji SN, Prakash Babu B.

Neuroprotective Effect of Ascorbic acid and Ginkgo biloba against Fluoride caused Neurotoxicity

.IOSR Journal of Environmental Sciences, Toxicology and Food Technology, Feb 2014, Vol. 8(1); 30-36.

7. M Atulya, A Jesil Mathew, J Venkata Rao, C Mallikarjuna Rao.

Influence of milk components in establishing biofilm mediated bacterial mastitis infections in cattle: A fractional factorial approach.

Research in Veterinary Science. 2014, 96(1), 25-27.

8. Vamshi Krishna T, M Sreenivasa Reddy.

Formulation and Evaluation Ofenteric coated pellets of Rifampicin and Isoniazid with improved Rifampicin Stability.

Asian Journal of Pharmaceutical and Clinical Research. 2014; 7(1), 154-156.

9. Kranti P Musmade, M Trilok, Swapnil J Dengale, Krishnamurthy Bhat, M.S Reddy, Prashant B Musmade and N Udupa.



Development and Validation of Liquid Chromatographic Method for Estimation of Naringin in Nanoformulation.

Journal of Pharmaceutics, 2014.

10. Prashanth Kumawat, Jagadish PC, Muddukrishna & Krishnamurthy Bhat.

Development and Validation of Stability Indicating HPLC Method for Clotrimazole Lozenges Formulation.International

Journal of Pharmacy and Pharmaceutical Sciences. 2014, 6(1), 126-129.

11. Verma R, Das M, Mohamed Saleem TS, Kumar L, Gauthaman K.

Protective effect of catechin from black tea in an in-vitro model of myocardial ischemic reperfusion injury. 1-6.

Journal of Pharmacy Research, 2014, 8(1),

12. Vamshi Krishna T, M Sreenivasa Reddy.

Formulation and Evaluation of Multiparticulate systems of Rifampicin and Isoniazid with improved rifampicin stability.International

Journal of Pharmacy and Pharmaceutical Sciences. 2014; 6(2), 386-388.

13. Maulick Chopra, Usha Y Nayak, Aravind Kumar Gurram, M Sreenivasa Reddy and KB Koteshwara

Formulation, Characterization and In Vivo Evaluation of Self Nanoemulsifying Drug Delivery System for Oral Delivery of Valsartan.

Current Nanosciences. 2014, 10(2), 263-270.14.

14. Pramod B Kumar, Suvarna G Kini and Muhammad Mubeen.

Synthesis, Antimicrobial and Docking studies of novel benzotriazole Derivatives.

International Journal of Pharma and Bio Sciences, April 2014, 5(2), 35-42.

15. Daniel Dhayabaran, Ebinezar Jeyaseeli Florance, Krishnadas Nandakumar, Alagarsamy Shanmugarathinam. Ayarivan Puratchikody

Anticonvulsant activity of fraction isolated from ethanolic extract of heartwood of Cedrus deodara.

Journal of Natural Medicine (2014) 68:310–315.

16. Vamshi Krishna T, M Sreenivasa Reddy.

Isocratic High Performance Liquid Chromatographic (HPLC) Determination of Rifampicin in Presence of Isoniazid.Research

Journal of Pharmacy and Technology, 7(3), March 2014, 328-331.

17. Vamshi Krishna T, Lalit Kumar, M Sreenivasa Reddy, Muddukrishna B S, and Girish Pai K.

Process Deviations in Pharmaceutical Industry: Various Types, Handling Procedure and Systems.Research

Journal of PharmacyTechnology, March 2014, 7(3),340-342.



18. Jayashree BS, KawadeShishir, Venkatechalam H.

Anticancer Evaluation of some of the novel Iminoflavones.

Research Journal of Chemistry and Environment. January 2014, Vol 18(1), 32-40.

19. Prachi Sharma, MK Unnikrishnan and Abhishek Sharma.

Sexual violence in India: addressing gaps between policy and implementation.

Health Policy and Planning, 2014, 1-4.

20. Geetha Mathew, Magith Thambi, MK Unnikrishnan.

A multimodal Darwinian strategy for alleviating the atherosclerosis pandemic.Medical

Hypotheses, 2014, 82(2); 159-162.

21. Bhagat Singh, Ganesh V Sangle, Jeya Murugan, Rinku Umrani, Subhasis Roy, Onkar Kulkarni, Arvind Semwal, MK Unnikrishnan and Mukul Jain.

Effect of combination treatment of S-amlodipine with peroxisome proliferatoractivated receptor agonists on metabolic and cardiovascular parameters in Zucker fa/fa rats.

Diabetology & Metabolic Syndrome. 2014, 6(45), 1-7.

22. Dhirendra B Sanghai, Vijaya Kumar S, KK Srinivasan and CS Shreedhara.

Antioxidant and Hepatoprotective Potential of Leaves of Clitoria ternatea (L).

International Journal of Pharmaceutical and Phytopharmacological Research (eIJPPR). 2014; 3(4), 337-342.

23. Dhanya Sunil, Ranjitha, S Balaji and KSR Pai.

(E)-1-(2,3-dimethoxyphenyl)-N-(4-methylpyridin-2-yl)methanimineas a potent anticancer agent against colorectal cancer.

International Journal of Pharmaceutical Chemistry. 2014, 04 (01).11-14

24. Srinivasa Rao Sirasanagandla, Sreedhara Ranganath Pai Karkala, Bhagath Kumar Potu and Kumar MR Bhat.

Beneficial Effect of Cissus quadrangularis Linn. On Osteopenia Associated with Streptozotocin -Induced Type 1 Diabetes Mellitus in Male Wistar Rats.

Advances in Pharmacological Sciences. 2014, 04(01),

25. Om Prakash Ranjan & Usha Y. Nayak & M. Sreenivasa Reddy & Swapnil J. Dengale & Prashant B. Musmade & Nayanabhirama Udupa.

Optimization of Chronomodulated Delivery System Coated with a Blend of Ethyl Cellulose and Eudragit L100 by Central Composite Design: In Vitro and In Vivo Evaluation.

Journal of Pharmaceutical Innovation 2014; 9, 95-105.

26. Vamshi Krishna T, Girish Pai K, Mohan Singh, Lalit Kumar, M Sreenivasa Reddy.
Comparative Evaluation of Few Marketed products of Amoxicillin Trihydrate Dispersible Tablets IP.



Asian Journal of Pharmaceutical and Clinical Research. April 2014, Vol 7(2), 109-110

27. Vasantharaju S Gowdra, Jayesh Mudgal, Punit Bansal, Pawan G Nayak, Seethappa A Manohara Reddy, Gautham G Shenoy, Manna Valiathan, Mallikarjuna R Chamallamudi, and Gopalan K Nampurath.

Synthesis, Characterization, and Preclinical Evaluation of New Thiazolidin - 4 - Ones Substituted with p-Chlorophenoxy Acetic Acid and Clofibric Acid against Insulin Resistance and Metabolic Disorder.

BioMed Research International. Vol 2014: June 2014: 1 to 14.

28. V Ganga Prasad, Shishir Kawade, BS Jayashree, Neetinkumar D Reddy, Albi Francis, Pawan G Nayak, Anoop Kishore, K Nandakumar, C Mallikarjuna Rao and Rekha R Shenoy.

Iminoflavones Combat 1,2 - Dimethyl Hydrazine - Induced Aberrant Crypt Foci Development in Colon Cancer.

BioMed Research International, Vol 2014, 1 to 7

29. Sumit Bansal, Manju Bala, Sharad Kumar Suthar, Shivani Choudhary, Shoumyo Bhattacharya, Varun Bhardwaj, Sumit Singla, Alex Joseph.

Design and synthesis of novel 2-phenyl-5-(1,3-diphenyl-1H-pyrazol- 4-yl)-1,3,4-oxadiazoles as selective COX -2 inhibitors with potent anti-inflammatory activity. European

Journal of Medical Chemistry. 80(2014), 167-174.

30. Swapnil J Dengale, Om Prakash Ranjan, Syed Sajjad Hussen, BSM Krishna, Prashant B Musmade, G Gautham Shenoy, Krishnamurthy Bhat.

Preparation and characterization of co-amorphous Ritonavir-Indomethacin systems by solvent evaporation technique: Improved dissolution behavior and physical stability without evidence of intermolecular interactions.

European Journal of Pharmaceutical Sciences, 62, (2014), 57-64.

31. Madhavan Nampoothiri, Neetinkumar D Reddy, Jessy John, Nitesh Kumar, Gopalan Kutty Nampurath, and Mallikarjuna Rao Chamallamudi.

Insulin Blocks Glutamate - Induced Neurotoxicity in Differentiated SH-SY5Y Neuronal Cells.

Behavioural Neurology. 2014.

32. Radhakrishnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma, Vasudeva Guddattu, Naren Ramanlal Patel, Manju Varghese, Poornima Pulagam.

Evaluating the effects of combination antiretroviral therapy regimens and the development of adverse drug reactions in Indian human immunodeficiency virus positive patients.

Saudi Journal of Health Sciences, May - Aug 2014, Vol 3(2), 107-117.

33. Rajesh Y, Narayanan K, Subrahmanyam VM and Venkata Rao J.



Bioprospecting for Cyclodextrin Glycosyltransferase Producing Bacteria.

Indian Drugs, June 2014, 51(06), 44-48.

34. Srinivas Mutalik, Pallavi K Shetty, Aravind Kumar, Rohit Kalra, and Harendra S Parekh.

Enchancement in deposition and permeation of 5 - fluorouracil through human epidermis assisted by peptide dendrimers.

Drug Delivery, 2014, 21(1), 44-54.

35. Srinivas Mutalik, Sujith Raj Salian, Kiran Avadhani, Jyothsna Menon, Harithima Joshi, Aswathi Raju Hegde, Pratap Kumar, Guruprasad Kalthur and Satish Kumar Adiga.

Liposome encapsulated soy lecithin and cholesterol can efficiently replace chicken egg yolk in humar semen cryopreservation medium. Systems

Biology in Reproductive Medicine. 2014, 60(3), 183-188.

36. Jayant Choudary, Suvarna G Kini, Sreedhara Ranganath Pai Karkala and Muhammad Mubeen.

Docking Studies and Biological Activity of Fosinopril Analogs. International Journal of Medicinal Chemistry, July 2014, 1-5.

37. Nitesh Kumar, Amita Rai, Neetinkumar D Reddy, P Vasanth Raj, Prateek Jain, Praful Deshpande, Geetha Mathew, N Gopalan Kutty, Nayanabhirama Udupa. C Mallikarjuna Rao.

Silymarin Liposomes improves Oral Bioavailability of Silybin besides targeting hepatocytes, and immune cells.

Pharmacological Reports. 2014, 66, 788-798.

38. CS Sreedhara, Sowmya S, Dhirendra B Sanghai, Kranti P Musmade, KB Koteshwara.

Preparation of Nanoformulation of Triphala Extract and Evaluation of it's In Vitro Antioxidant and Cytotoxic Potential.

International Journal of Pharmaceutical and Phytopharmacological Research (eIJPPR), 2014, 3(4): 300-305.

39. Kranti P Musmade, Praful B Deshpande, Prashant B Musmade, M Naseer Maliyakkal, A Ranjith Kumar, M Sreenivasa Reddy and N Udupa.

Methotrexate- loaded biodegradable nanoparticles: preparation, characteization and evaluation of its cytotoxic potential against U -343 MGa human neuronal glioblastoma cells.

Bulletin of Material Sciences. Vol 37(4), June 2014, 945-951.

40. Nitesh Kumar, Isha Dhamija, P Vasanth Raj, BS Jayashree, Vipan Parihar, SN Manjula, Seeja Thomas, N Gopalan Kutty, C Mallikarjuna Rao.

Preliminary Investigation of Cytotoxic potential of 2-quinolone derivatives using in vitro and in vivo (solid tumor and liquid tumor) models of cancer. Arabian



- Journal of Chemistry, 2014, 7, 409-417.
- 41. Ramya Nair, Vikram Jeet Singh, Sujith Raj Salian, Sneha Guruprasad Kalthur, Antony Sylvan D'Souza, Pallavi K. Shetty, Srinivas Mutalik, Guruprasad Kalthur, Satish Kumar Adiga.
 - Methyl parathion inhibits the nuclear maturation, decreases the cytoplasmic quality in oocytes and alters the developmental potential of embryos of Swiss albino mice,
 - Toxicology and Applied Pharmacology 279 (2014) 338–350.
- 42. Yamini D, Chandrashekar KS, Vasudev P, Shreedhara CS, Shilpee C.
 - In vitro Antioxidant Activity of Hydroalcoholic Extract of Centella Asiatica Usingabts Assay Method.
 - World Journal of Pharmaceutical Research. 2014, Vol 3(2), 2113-2116.
- 43. Narayanan Kasinathan, Subrahmanyam Mallikarjuna Volety and Venkata Rao Josyula.
 - Application of Experimental Design in Preparation of Nanoliposomes Containing Hyaluronidase.
 - Journal of Drug Delivery. 2014 vol, 1-7.
- 44. Yogendra Nayak, H Venkatachalam, Vijay Kumar Daroji, Geetha Mathew, B S Jayashree, M K Unnikrishnan.
 - Antidiabetic Activity of 3-Hydroxyflavone Analogues in High Fructose Fed Insulin Resistant Rats.
 - EXCLI Journal 2014; 13, 1055-1074.
- 45. Sekhar SM, Vyas S, Unnikrishnan MK, Rodrigues GS, Mukhopadhyay C.
 - Antimicrobial Susceptibility Pattern in Diabetic Foot Ulcer: A Pilot Study.
 - Annals of Medical & Health Sciences Research. Sep -Dec 2014, Vol 4(5) 742-745.
- 46. Amrita Das, Praveen Kadwey, Jai Kumar Mishra, Sudheer Moorkoth.
 - Quality Risk Management (QRM) in Pharmaceutical Industry: Tools and Methodology.
 - International Journal of Pharmaceutical Quality Assurance 2014; 5(3); 13-21.
- 47. Girishpai K, Divya S, M Sreenivasa Reddy, Lalit Kumar, Vamshi Krishna T. Solubality Enhancement of Norfloxacin by Hydrotrophy Technique. International Journal of Pharmacy and Pharmaceutical Sciences. 6(8), 395-397.
- 48. Vishalkirti Vijay Kalaskar, Narayanan Kasinathan Volety Mallikarjuna Subrahmanyam and Josyula Venkata Rao.
 - Optimization of Extracellular Acid Protease Production from Aspergillus Niger by Factorial Design.
 - Journal of Microbiology, Biotechnology and Food Sciences. 4(2); 2014, 132-136.
- 49. Anil Tumkur, Pradeep M Muragundi, Ranjan K Shetty, Vivek G, Anantha Naik Nagappa.



Effect of angioplasty on quality of life in a tertiary care hospital of South India.Nigerian

Journal of Cardiology, July - December 2014, 11(2); 92-97.

50. Nitesh Kumar, Daniel Dhayabaran, Madhavan Nampoothiri, Krishnadas Nandakumar, A Puratchikody, Natasha Lalani, Karima Dawood and Aanesha Ghosh.

Atypical Antidepressant Activity of 3,4 -Bis(3,4- Dimethoxyphenyl) Furan - 2,5 - Dione Isolated from Heart Wood of Cedrus deodara, in Rodents.Korean

Journal of Physiology & Pharmacology, October 2014, Vol 18; 365 -369.

51. Girish Pai K, Vibha V, M Sreenivasa Reddy.

Lyophilization: An Emerging Trend in Formulation of Parenterals.

International Journal for Pharmaceutical Research Scholars (IJPRS). Vol 3(3), 2014.

52. Meenashi Vanathi Balashanmugam, Sivagurunathan Nagarethinam, Hitesh Jagani, Venkata Rao Josyula, Abdulmohsen Alrohaimi, and Nayanabhirama Udupa.

Preparation and Characeterization of Novel PBAE/PLGA Polymer Blend Microparticles for DNA Vaccine Delivery.

The Scientific World Journal. Volume 2014.

53. Asmy Appadath Beeran, Naseer Maliyakkal, Chamallamudi Mallikarjuna Rao, Nayanbhirama Udupa.

The enriched fraction of Vernonia cinerea L. induces apoptosis and inhibits multidrugs resistance traporters in human epithelial cancer cells.

Journal of Ethnopharmacology, 2014, 158, 33-42.

54. Om Prakash Ranjan, Usha Y Nayak, M Sreenivasa Reddy, Swapnil J Dengale, Prashant B Musmade and Nayanabhirama Udupa.

Osmotically controlled pulsatile release capsule of montelukast sodium for chronotherapy: Statistical optimization in vitro and in vivo evaluation.

Drug Delivery, 2014, 21(7), 509-518

55. Sreecharan Chama, Ankita Singh, Avinash Reddy Cheruku, Mannem Chandra Shekar, Mohan K Manu, Aswini Kumar Mohapatra, MK Unnikrishnan, Suhaj A.

Antibiotic usage and sensitivity pattern in pulmonary medicine unit of a tertiary care teaching hospital in South India: A Prospective Study.

Asian Journal of Pharmaceutical and Health Sciences, Jul-Sep 2014, 4(3), 1047-1055.

56. Anup Naha, Ikya Rai, Venkatesh Kamath B.

Development and Validation of Bioanalytical Method for Estimation of Glibenclamide.

Universal Journal of Pharmacy, Sep - Oct 2014, 03(05), 42-45.

57. Rupali Deshpande, Chandrashekara Shastry Shreedhara, Holavana Hally Nanjudaiah Setty Aswatha Ram



Standardization of Rajanyadi curna: An ayurvedic preparation. Ancient Science of Life, Jan - Mar 2014, Vol 33(3), 144-148.

58. Sarma Shreya Balaram, Akula Ramesh and Jagadish PC.

Estimation of Aripiprazole in Bulk Drug and Formulation by UV-Derivative Spectroscopy.Research

Journal of Pharmaceutical and Technology, Oct 2014, 7(10), 1113-1117.

59. Sumit Bansal, Sharad Kumar, Vaibhav Aggarwal, Alex Joseph.

Design, Synthesis, Docking Study & Antibacterial Evaluation of 1,3-Diarylpyrazolyl Substituted Indolin-2-ones.Indo Global Journal of Pharmaceutical Sciences, 2014, 4(1), 1-7.

60. Sumit Bansal, Sharad Kumar, Anil Choudhary, Amit Tiwari, Vaibhav Aggarwal, Alex Joseph. Synthesis, Docking Study & Anticancer Evaluation of Novel 3-Phenyl-2-(3-aryl-phenyl-1H-pyrazol-4-yl) thiazolidin-4-ones.

Indo Global Journal of Pharmaceutical Sciences, 2014, 4(1), 18-24.

61. Alkesh Patel, Subhankar Biswas, Muhammed Haneefa Shoja, Grandhi Venkata Ramalingayya, and K Nandakumar.

Protective Effects of Aqueous Extract of Solanum nigrum Linn. Leaves in Rat Models of Oral Mucositis.

The Scientific World Journal, Vol 2014.

62. Srinivas Rao Sirasangandla, K Sreedhara Ranganath Pai, Kumar MR Bhat,

Effect of Cissus quadragularis Linn on skeletal growth in the neonates of diabetic rats.

International Journal of Basic & Clinical Pharmacology, Sep-Oct 2014, Vol 3(5), 824-829

63. Suhani Sumalatha, K Shridhar R Pai, Nitesh Kumar, Kumar MR Bhat.

Hepatoprotective Role of Caesalpenia bonduc: A Histopathological and Biochemical Study.

Journal of Clinical and Diagnostic Research, Nov 2014, Vol 8(11), 05-07.

64. Gagganapalli Santhoshi Reddy, Usha Yogendra Nayak, Praful Balavant Deshpande and Srinivas Mutalik

Gastroretentive Pulsatile Release Tablets of Lercanidipine HCl: Development, Statistical Optimization, and In Vitro and In Vivo Evaluation.

The Scientific World Journal, Vol 2014, 1-13.

65. Girish Thunga, Sureshwar Pandey, Sreedharan Nair, Rama Mylapuri, Sudha Vidyasagar, Vijanarayana Kunhikatta, Akriti Kaura.

Pharmacokinetic Studies on Oximes in Organophosphate Poisoning: A Mini Review.

Pharmacokinetic Studies on Oximes. September 2014, 4(3), 120-123

66. Girish Pai K, Sreenivasa Reddy M.



Design, Fabrication and Evaluation of SS 316 Punch Die set for Accurate Sizing of Sodium Cromoglycate Ocular Inserts.International

Journal of Pharmacy and Pharmaceutical Sciences, Vol 6(11), 2014.

67. BS Jayashree, Sukriti Nigam, Aravinda Pai, PVR Chowdary.

Overview on the recently developed coumarinyl heterocycles as useful therapeutic agents.

Arabian Journal of Chemistry, 2014, 7, 885-899.

68. Mahe Talat, Pooja Upadhyay, Pratibha Omray, K B Koteshwara and ON Srivastava.

Preparation and Characterization of Nanosuspension of Tamoxifen Citrate for Intra-Venous Administration in Drug Resistant Breast Cancer Cell.

American Scientific Publishers, 2014, Vol 20, 1483-1489.

69. Sirishadevi Talluri, Suvarna G Kini, Ajit Kandale, Ganesh Kumar, Renu Ohlyan.

Synthesis and in vitro cholesteryl ester transfer protein inhibitory activity of novel esters of 2, 10 - dichloro- 12H-dibenzo [d,g]1,3-dioxocin - 6-carboxylic acid.

Medicinal Chemistry Research 2014, 23, 4491-4499.

70. Yogendra Nayak, Venkatachalam Hillemane, Vijay Kumar Daroji, BS Jayashree and M K Unnikrishnan

Antidiabetic Activity of Benzopyrone Analogues in Nicotinamide - Streptozotocin Induced Type 2 Diabetes in Rats.

The Scientific World Journal. Vol 2014, 1-12.

71. B Meenashi Vanathi, N Sivagurunathan, K Narayanan, J Venkata Rao, N Udupa.

Evaluation of Immuno-Stimulatory Property of PLGA/PBAE Microparticles. Research

Journal of Pharmeutical and Technology, December 2014, 7(12), 1365-1367.

72. Mradul Tiwari, Kasinathan Narayanan, Mitali B Thakar, Hitesh V Jagani, Josyula Venkata Rao

Biosynthesis and wound healing activity of copper nanoparticles.IET

Nanobiotechnology, February 2014, 8(4), 1-8.

73. Kranti P Musmade, M Trilok, Krishnamurthy Bhat, Virendra S Ligade, Prashant B Musmade & N Udupa.

Validation of An Isocratic LC Method for Determination of Quercetin in Developed Nanoformulation.

The Pharma Review. January - February 2014, 103-109.

74. Waghmare AN, Muddukrishna BS and Vasantharaju SG.

Analytical Method Development and Validation of Simultaneous Estimation of Amlodipine and Atorvastatin by RP-UPLC.

Mintage Journal of Pharmaceutical & Medical Sciences. Feb 2014, Vol. 3(2), 22-25.



75. Prof. MK Unnikrishnan.

Indian Journals and the Tyranny of Impact Factor.

Hygeia: Journal for Drugs and Medicines. 2014, 6(1), 1-3.

76. AN Nagappa, Rishabh Chugh, Janki Chauhan & Asim Priyendu.

Pharmacovigilance - Who should lead? Doctor of Pharmacy or Doctor.

The Pharma Review. April 2014, 48-52.

77. Sahana Kini, Sreedhar D, Virendra SL, Pradeep M & Udupa N.

Perspective on Herbal Medicines and Its Regulations.

The Pharma Review, March - April 2014, 65-68

78. Srinivasa Rao Sirasanagandla, K Sreedhara Ranganatha Pai, Bhagath Kumar Potu, Kumar MR Bhat.

Protective effect of Cissus quadrangularis Linn. On diabetes induced delayed fetal skeletal ossification.

Journal of Ayurveda & Integrative Medicine. January - March 2014, 5(1), 25-35.

79. Uday Venkat Mateti, Anantha Naik Nagappa, Noorunnisa, P Gayathri, Asim Priyendu, Shima Rose Kachappally.

Emerging Drug Therapy Management: Need of the day.

International Journal of Health & Allied Sciences, April - June 2014, 3(2), 79-83.

80. Manpreet Kaur, BS Jayashree, Aravinda Pai.

Synthesis, Characterization, Antibacterial Evaluation of Novel Schiff's Bases of 2-Quinolones.

International Journal of Advances Pharmaceutical Sciences, Vol 5(1); January - February 2014, 1724-1732.

81. Ramesh K Goyal, Satish B Bhise, B P Srinivasan, C Mallikarjuna Rao, Tuhinadri Sen, Raju Koneri.

Curriculum for Pharmacology in Pharmacy Institutions in India: Opportunities and Challenges.

Indian Journal of Pharmacology, June 2014, Vol 46(3), 241-245.

82. PM Muragundi.

Pharmacoeconomics -fourth dimension for drug evaluation in India.

Current Sciences. Vol 106 (8), April 2014.

83. Muragundi PM, Sridhar D, Janodia M, Ligade VS, Harshad P, Udupa N.

Mapping of Presciber Potential in Rural India.

International Journal of Community Pharmacy, Vol 7(1), January - April 2014

84. Pradeep M Muragundi, Shripathi Acharya G & Anantha Naik Nagappa.

Updating Ayurveda in Modern Terms and Times - Need of the Hour.



The Pharma Review, May - June 2014, 37-41.

85. Manthan D Janodia.

Indian Systems of Medicine - The Way Forward.

The Pharma Review. May - June 2014, 42-45.

86. Ghosh A, Shreedhara CS, Shenoy G, Shetty R, Kumar VS, Sanghai DB.

A Novel Technique for Stability Testing of Alliin and Sennosides in Unani Formulation.

Research & Review: A Journal of Unani, Siddha and Homeopathy. 2014, Vol 1(1).

87. Muragundi PM, AN Nagappa.

Patent or Patient? The Challenges in Pricing Policy of Patent Medicine.

The Pharma Review. July - August 2014, 46 - 48.

88. Ega Durgashivaprasad, Geetha Mathew, Sarine Sabastian, Manohar Reddy SA, Jayesh Mudgal, Gopalan Kutty Nampurath.

Novel 2,5-disubstituted-1,3,4-oxadiazoles as anti-inflammatory drugs.

Indian Journal of Pharmacology. October 2014, Vol 46(5), 521-526.

89. Sandeep A, Singh K, Sreedharan N, Thunga G, Kunhikatta V, Prasanna K, Balakrishnan R.

Assessment of Metastatic Breast Cancer in a Tertiary Care Teaching Hospital of South India.

Indian Journal of Hospital Pharmacy 51(2014), 89-94.

90. Rouhollah Faryabi, Joice Mathew, Mrunmayee Palaye, Sreedharan Nair, Shivshankar, Prasanna Kumar Shetty, Girish Thunga, Vijayanarayana Kunhikatta.

Antibiotic Utilization in Patients with Complicated Urinary Tract Infection in the Medicine Wards of a South Indian Tertiary Care Teaching Hospital.

Research Journal of Pharmaceutical, Biological and Chemical Sciences. July -August 2014, 5(4), 87-93.

91. Vijayanarayna K, Rau NR, Anantha Naik N, Bhavani Y Girish Thunga, Sreedharan Nair, Rajesh V.

Analysis of antibiotic Utilization and cost of treatment in hospital acquired pneumonia.

Asian Journal of Pharmaceutical and Health Sciences. Jan - Mar 2014, 4(1). 944-947.

92. Vijayanarayna K, Rau NR, Anantha Naik N, Bhavani Y, Girish T, Sreedharan Nair, Sreecharan Chama.

An Appraisal of Sensitivity and Resistance Pattern of Organisms Isolated from Hospital Aquired Pneumonia Patients.

Research Journal of Pharmaceutical, Biological and Chemical Sciences. July -August 2014, 5(4), 384-398.



93. K Vijayanarayana, M Sonal Sekhar, M Surulivelrajan, R Rajesh, A Suhaj, S Prasanna Kumar, V Rajesh, N Sreedharan.

Bridging Pharmaceutical Education.

Currents in Pharmacy Teaching and Learning 2014, 6, 745-747.

94. Harika Cherukuri, K Pramoda, D Rohini, Girish Thunga, K Vijayanarayans, N Sreedharan, Muralidhar Varma, Vinay Pandit.

Demographics, Clinical Characteristics and Management of Herbicide Poisoning in Tertiary Care Hospital.

Toxicology International, May - Aug 2014, Vol 21(2).

95. Praveen Kadway, Prasanna GL, Sudheer Moorkoth.

Planning a Pharmaceutical Technology Transfer for Developing and Emerging Markets.

Pharma Times, June 2014, Vol. 46(6), 29-31.

96. Naha Anup, Kiran Sai, Rai Ikya, Vora Bhavisha, Reddy D Apporva, P Kartika.

Preparation and Evaluation of Polymeric Nanoparticles of Glibenclamide.

Journal of Drug Delivery & Therapeutics; 2014, 4(5), 190-192.

97. Uday Venkat Mateti, Shiv Sagar Konda, MG Irfan Ahmed Khan, Anantha Naik Nagappa.

Need for Problem - Based Learning in Clinical Pharmacy Education in India.

Indian Journal of Pharmacy Practice, July - September 2014, Vol 7(3), 10-13.

98. Akram Ahmad, Muhammad Umair Khan, Anantha Naik Nagappa and Isha Patel.

Emerging Job Opportunities for PharmD Graduates: Looking Outside the Box.

Indian Journal of Pharmaceutical Education and Research, Oct - Dec 2014, 48(4), 6-10

99. N Udupa, Uday Venkat Mateti, Asim Priyendu and A N Nagappa.

The Pharmacoeconomic Guidelines- Indian Perspective.

Indian Journal of Hospital Pharmacy. 2014, September - October 51, 121-123.

100. Sreedhar D, Virendra SL, Manthan J & Udupa N.

Drug Legislation in India - How it All Started?.

The Pharma Review, July - August 2014, 37-39.

101. Virendra SL, Sreedhar D, Manthan J, Pradeep M, Prashant M & Udupa N.

Ayurvedic Medicines in India: A Brief Review.

The Pharma Review. May June 2014, 68-70.

102. Omkar Joshi, Archna Roy, Manthan Janodia.



Supplementary Protection Certificate Provisions for Pharmaceutical and Biotechnological Products in Europe: An Era after Medeva and Georgetown Dicisions.

Journal of Intellectual Property Rights. November 2014, 19, 378-386.

103. PM Muragundi, VS Ligade, D Sreedhar, MD Janodia & N Udupa.

Regulatory Scenario of Pharmaceutical Marketing Practices in India.

The Pharma Review, November - December 2014, 66-70.

Publications in 2013 (Total Publications 150)

1. Sonal Sekhar M, Navya Vyas Rajesh V, Suhaj A

Inhalant Abuse - A Rising Public Health Problem

International Journal of Medical Science and Public Health 2013, 2(1), 146-152

2. Ashish Kekare, Jagadish PC, Manthan Janodia, Krishnamurthy Bhat, Swathi Karande, N Udupa

Drug product registration and marketing authorization procedures in EU-A perspective

Marmara Pharmaceutical Journal 2013, 17: 1-6

3. Dhanya Sunil, Arun M Isloor, Prakash Shetty, Pawan G Nayak, KSR Pai

In vivo Anticancer and Histopathology Studies of Schiff Bases on Ehrlich ascitic carcinoma Cells

Arabian Journal of Chemistry 2013, 6, 25-33

4. Isha Dhamija, Nitesh Kumar, SN Manjula, Vipan Parihar, M Manjunath Setty, KSR Pai

Preliminary evaluation of in vitro cytotoxicity and in vivo antitumor activity of Premna herbacea Roxb in Ehrlich ascites carcinoma model and Dalton's lymphoma ascites model

Experimental & Toxicologic Pathology, 2013, 65, 235-242

5. Hitesh Jagani, Josyula Venkata Rao, Vasanth Raj Palanimuthu, Raghu Chandrashekar Hariharapura and Sagar Gang

A NANOFORMULATION OF siRNA AND ITS ROLE IN CANCER THERAPY: In vitro AND in vivo Evaluation

Cellular & Molecular Biology Letters 2013, 18, 120-136

6. Jesil Mathew Aranjani, Atulya Manuel, Chamallamudi Mallikarjuna Rao, Nayanabhirama Udupa, Josyula Venkata Rao, Ann Mary Joy, Prajay Gandhi and Ethiraj Kannat Radhakrishnan

Preliminary Evaluation of In Vitro Cytotoxicity and In Vivo Antitumor Activity of Xanthium Strumarium in Transplantable Tumors in Mice

The American Journal of Chinese Medicine, 2013, 41(1), 145-162



7. Sudheer Moorkoth, Srinivasan KK and Divyashree Bukka

Evaluation of Antimicrobial Activity of 4- Arylidene - 2- Phenyl oxazol - 5- one derivatives against selected skin microorganisms

Elixir Pharmacy, 2013, 54, 12315-12318

Arun M Isloor, Dhanya Sunil, Prakash Shetty, Shridhar Malladi, KSR Pai, Naseer 8. Maliyakkl

Synthesis, Characterization, Anticancer, and antioxidant activity of some new thiazolidin-4-ones in MCF - 7 Cells

Medicinal Chemistry Research 2013, 22; 758 - 767

9. Aruna S Theerthahalli, Rekha R Shenoy, Pawan G Nayak, Jayesh Mudgal, Nitesh Kumar, Mallikarjuna C Rao and Gopalan N Kutty

High Carbohydrate Diet with 30% Sucrose Solution: An Optimized Rodent Model for Simulating Human Insulin Resistance

Pharmacologia, 2013, 4(3); 157-163

10. Raghu Hariharapura, Puttur Santhoshkumar, K Krishna Sharma

Profiling of Lens Protease Involved in Generation of A-66-80 Crystallin Peptide using an Internally Quenched Protease Substrate

Experimental Eye Research 2013, 109, 51-59

11. Sudheer Moorkoth, SG Vasantharaju and Shilpa Laggyshetty

Indigence for Robust Pharmacovigilance in Biosimilars: A Review

Elixir Pharmacy, 2013, 56, 13460-13464

12. Jagadish PC, Parikshit S Chindhade, Krishnamurthy Bhat, Sudheer Moorkoth Stability-Indicating HPTCL Method for the Estimation of Paliperidone in Bulk Drug International Journal of Multidisciplinary Research, 2013, 1(12), 68-71

13. Sudheer Moorkoth, Ashish Dubey, Sunny Kumar, Jagadish PC

Development of A Stability Indicating RP-HPLC Method for the Assay of Efavirenz, Compatible with LC-MS/MS

International Journal of Multidisciplinary Research March 2013, Vol. 1, Issue 12(1), 108-112

14. K B Koteshwara

Effect of Surfactant Tween 80 & Freeze Drying in Formulation of Pioglitazone Nanosuspension & its In Vivo Pharmacokinetic Evaluation

International Journal of Multidisciplinary Research (IJMR) 2013, Vol 1, Issue 12(1), 59-62

15. C S Shreedhara

Effect of Elicitors on the production of Hispidulin in the Suspension Culture of Millingtonia Hortensis



International Journal of Multidisciplinary Research 2013, Vol 1, Issue 12(1), 63-67

16. Pai GK, Krishna VT, Kumar L, Anup N, Naveen D, Reddy SM

Comparative Evaluation of Cephalosporin Injectable Product Manufactured by Generic and Innovator Company

International Journal for Pharmaceutical Research Scholars 2013, 2(1), 56-60

17. Girish Pai K, Vamshi Krishna T, Lalit Kumar, M Sreenivasa Reddy, G Shreenidhi, A Praneeth Reddy

Comparative Evaluation of the Physical Parameter of Uncoated Tablets of Amlodipine Besylate with different types of Primary Packaging Materials

Asian Journal of Pharmaceutical Research 2013, 3(1), 03-05

18. Jessy Elizabeth Mathew, Gubba Divya, S Dinakaran Vachala, Jesil A Mathew, Ramaiah Selladurai Jeyaprakash

Synthesis & Characterisation of Novel 2,4 - diphenyloxazole derivatives and Evaluation of their in vitro antioxidant and anticancer activity

Journal of Pharmacy Research 2013, 6; 210 - 213

19. Sharma Pushkar Raj, Lewis Shaila Angela

Stability of Marketed Albendazole Suspensions and Correlation between Zeta Potential and Sedimentation

International Journal of Multidisciplinary Research (IJMR) 2013, Vol 1(12(1), 85-87

20. Sreenivasa Reddy M, Basabareddy VK, Ranjan QP, Mutalik SS, Udupa N

Preparation and Optimization of Eudragit Nanoparticle of Valsartan

International Journal of Multidisciplinary Research 2013, 1, 12(1), 104-107

21. Prasanna R Deshpande, Mohd Kazim Sheriff, Abdul Nazir, Sudeepthi Bommareddy, Anil Tumkur, Anantha N Naik

Patient- reported quality of life outcomes in Indian breast cancer patients: Importance, review of the researchers, determinants and future directions

Journal of Cancer Research and Therapeutics January - March 2013, Vol 9(1), 11-

22. Nitesh Kumar, Jayesh Mudgal, Vipan K Parihar, Pawan G Nayak, N Gopalan Kutty, C Mallikarjuna Rao

Sesamol Treatment Reduces Plasma Cholesterol and Triacylglycerol Levels in Mouse Models of Acute and Chronic Hyperlipidemia

Lipids, 2013, 48(6); 633-638

23. Radhakrishnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma, Anand Naik, Brahmavar Mohandas Hegde, Vasudeva Guddattu Asha Kamath

A Prospective Study of Highly Active Antiretroviral Therapy in Indian Human Immounodeficiency Virus Positive Patients

International Journal of Risk & Safety in Medicine 2013, 25; 53-65



24. Syed Sajjad Hussen, Premnath Shenoy, Udupa, Muddu Krishna

Development and Validation of Stability Indicating RP-HPLC method for Tenofovir Nanoparticle Formulation

International Journal of Pharmacy Pharmaceutical Sciences 2013, 5(2); 245-2487

25. Pawan G Nayak, Piya Paul, Punit Bansal, Nampurath Gopalan Kutty and Karkala Sreedhara Ranganath Pai

Sesamol prevents Doxorubicin- induced oxidative damage and toxicity on H9c2 cardiomyoblasts

Journal of Pharmacy and Pharmacology; 2013, 65, 1083-1093

26. Mahalaxmi Rathnanand, Rajkiran Narkhede, N Udupa and Atin Kalra

Development of Novel Floating Delivery System based on Psyllium: Application on Metformin Hydrochloride

Current Drug Delivery, 2013, 10, 336-342

27. Sahil Talwar, Hitesh V Jagani, Pawan G Nayak, Nitesh Kumar, Anoop Kishore, Punit Bansal, Rekha R Shenoy and Krishnadas Nandakumar

Toxicological Evaluation of Terminalia Paniculata Bark Extract and its Protective Effect Against CCl₄- Induced Liver Injury in Rodents

BMC Complementary & Alternative Medicine 2013, 13; 127

28. Radhakrishna Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma, Anand Naik, Brahmavar Mohandas Hegde, Vasudev Guddattu, Asha Kamath

Pattern of Use of Highly Active Antiretroviral Therapy Regimens and Pattern of Occurrence of Adverse Drug Reactions in an Indian Human Immunodeficiency Virus Positive Patients

Clinical Research in HIV Aids and Prevention 2013, 1(3), 1-12

29. Titas Debnath, Rajesh Radhakrishnan, Murugananthan Gopal, Sahil Talwar and Nandakumar K

Hypoglycaemic Effects of Alcoholic Root Extract of Borassus Flabellifer (Linn) In Normal and Diabetic Rats

Pakistan Journal of Pharmaceutical Sciences 2013, Vol 26(4) 673-679

30. M Sonal Sekhar, MK Unnikrishnan, Gabriel Sunil Rodrigues, Chiranjay Mukhopadhyay

Synbiotic Formulation of Probiotic and Lactulose Combination for Hepatic Encephalopathy Treatment: A Realistic Hope?

Medical Hypotheses 2013, 81,167-168

31. Raymol Thomas Roy, M Sonal Sekhar, Gabriel Sunil Rodrigues, V Rajesh

Preparation and Readability Assessment of Patient information Leaflets for diabetic foot ulcers

Journal of Social Health and Diabetes Jul – Dec 2013, Vol 1 (2), 79-81



32. Devang Khamar, Raviraj Devkar, Reshma KK, CS Shreedhara, M Manjunath Setty, Smitha Hegde

Enhanced Hispidulin Production In Vitro from Callus Culture of Millingtonia Hortensis L F

International Journal of Pharmacy and Biological Sciences 2013, Vol 3(2) 633-639

33. Phani Krishna Kondamudi, Hemalatha Kovelamudi, Geetha Mathew, Pawan G Nayak, C Mallikarjuna Rao, Rekha R Shenoy

Modulatory Effects of Sesamol in Dinitrochlorobenzene-Induced Inflammatory Bowel Disorder in Albino Rats

Pharmacological Reports 2013, 65, 658-665

34. Manisha Kandi, Gayathri Sivasai, Mahalaxmi Rathnanand, M Sreenivasa Reddy, K Vijaya Bhasker

Novel Intervention to Improve Adherence to Medication in Diabetic Patients: Formulation and Evaluation of Metformin HCL Novel Dosage Form

International Journal of Pharmacy and Pharmaceutical Sciences 2013, Vol 5 Suppl 3, 587-592

35. Lokesh P Nijhawan, Manthan D Janodia, BS Muddukrishna, KM Bhat, KL Bairy, N Udupa, Prashant B Musmade

Informed consent: Issues and Challenges

Journal of Advanced Pharmaceutical Technology & Research Jul – Sep 2013, Vol 4(3), 134-140

36. Mahathi Yelugam, Dr Koteshwara KB, Sreenivasa Reddy M

Gastro - Retentive Microspheres of Carvedilol: Formulation, Characterisation and In Vitro Evaluation

International Journal of Pharmacy and Pharmaceutical Sciences 2013, 5(3), 686-690

37. Prateek Jain, Nitesh Kumar, Venkata Rao Josyula, Hitesh Vitthal Jagani, N Udupa, C Mallikarjuna Rao, Palanimuthu Vasanth Raj

A Study on the role of (+)-catechin in suppression of HepG2 proliferation via caspase dependent pathway and enhancement of its in vitro and in vivo cytotoxic potential through liposomal formulation

European Journal of Pharmaceutical Sciences August 2013, 50, 353-365

38. Shivani Choudhary, Suvarna G Kini and Muhammad Mubeen

Antioxidant Activity of Novel Coumarin Substituted benzothiazole Derivatives

Der Pharma Chemica, 2013, 5(4), 213-222

39. Manisha Kandi, Gayathri Sivasai, Mahalaxmi Rathnanand, M Sreenivasa Reddy, K Formulation and Evaluation of Chewable Tablet of Metformin HCI using Stevia by Different Techniques

International Journal of PharmTech Research, 2013, 5(3), 1364-1372



40. Ashok Kumar Bagepalli Srinivasa, Lakshman Kuruba, Saleemulla Khan, Gopi Setty Saran

Antiurolithiatic Activity of Gokhsuradi Churan, an Ayurvedic Formulation By In vitro Method

Advanced Pharmaceutical Bulletin, 2013, 3(2), 477-479

41. B S Ashok Kumar, Saleemulla Khan, Gopi Setty Saran, R Nandeesh & N K Manjunath

In Vitro Antidiabetic Activity of Nisamalaki Churna

Sains Malaysiana October 2013, 42(5), 625-628

42. Radhakrishnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma, Vasudeva Guddattu and Ansar Hameed

Evaluating the Impact of Educational Interventions on Use of Highly Active Antiretroviral Therapy and Adherence Behavior in Indian Human Immunodeficiency Virus Positive Patients: Prospective Randomized Controlled Study

Journal of Aids & Clinical Research, 2013, 4(8), 1-9

43. Alkesh Patel, S Rajesh, VM Chandrashekar, Shivprakash Rathnam, Karishma Shah, C Mallikarjuna Rao, K Nandakumar

A Rat Model Against Chemotherapy Plus Radiation - Induced Oral Mucositis

Saudi Pharmaceutical Journal, October 2013, 21, 399 - 403

44. Girish Pai K, Vamshi Krishna T, Shaila Lewis, Usha Sree M

Significance of Reconstitution Time and Other Physical Parameters for Evaluation of **Dry Powder Injectables**

International Journal of Pharmacy and Pharmaceutical Sciences 2013, Vol 5, Suppl 3, 612-614

45. Girish Pai K and Baldha Parinkumar Dhirajlal

Multiple Unit Particle System (MUPS): Novel technology for preparation of Extended Release (ER) tablets

Research Journal Pharm and Tech 2013, 6(8): 856-864

46. Girish Pai K, Vamshi Krishna T, Lalit Kumar, M Sreenivasa Reddy, Shreya Singh and Vibha V

Evaluation of few Marketed products of Salbutamol sulphate syrup IP

Asian J Res Pharm Sci 2013; Vol 3: Issue 3, 114-116

47. Vamshi Krishna T, Girish Pai K, Naveen D, Sreenivasa Reddy

Formulation and Evaluation of Fixed Dose Combination Products of Rifampicin and Isoniazid with Improved Rifampicin Stability

International Journal of Pharmacy and Pharmaceutical Sciences 2013, 5(3), 431-433

48. Vamshi Krishna T, Girish Pai K, Hemanth G, Damodaram A, M Sreenivasa Reddy Study of Various Physical Parameters of Marketed Products of Paracetamol



Research J Pharma Dosage Forms and Tech 2013; 5(4), 227-231

49. Ginjupalli Kishore, A Karthik, Shavi Venkat Gopal, Averineni Ranjith Kumar, Mahalingam Bhat & N Udupa

Development of RP-HPLC method for simultaneous estimation of lactic acid and glycolic acid

Der Pharma Chemica 2013, 5(4): 335-340

50. Mr Krishna BSM, Dr Vasantharaju, Mr Girish Pai K, Miss Spandana

A Validated Stability Indicating HPLC Method for Determination of Meropenem in active Pharmaceutical Ingredient and Sterile Pharmaceutical Dosage Form

International Journal of Multidisciplinary Research, 2013, Vol 2(6(3)),25-29

51. Maliyakkal N, Udupa N, Pai KSR, Rangarajan A

Cytotoxic and apoptotic activities of extracts of Withania somnifera and Tinospora cordifolia in human breast cancer cells

International Journal of Applied Research in Natural Products 2013, 6 (4), 1-10

52. Pallavi K Shetty, Neelam A Suthar, Jyothsna Menon, Praful B Deshpande, Kiran Avadhani, Raghavendra V Kulkarni & Srinivas Mutalik

Transdermal Delivery of Lercanidipine Hydrochloride: Effect of Chemical Enhancers and Ultrasound

Current Drug Delivery, 2013, 10, 427-434

53. Gupta Daksha, Kondongala Subraya Chandrashekar, Girish Pai

In vitro Antidiabetic Activity of Pentacyclic Tritrpenoids and Fatty Acid Esters from Bauhinia Purpurea

International Journal of Pharmacology and Pharmaceutical Technology, 2013, 2 (1), 25-28

54. Mahantesh P Paruti, Vijaykumar V Alange, Srinivas Mutalik, Akram A Naikawadi and Raghavendra V Kulkarni

Formulation and Evaluation of Compression Coated tablets for controlled released of cefadroxil monohydrate

Research Journal of Pharmaceutical and Technology, April 2013, 6 (4), 356-359

55. Narayanachar, Shreedhar D Dhumwad, Srinivas Mutalik, Mallinath H Hugar and Prayeen N Naik

Synthesis, spectral Characterization of Co (II) Ni (II), Cu (II) and Zn (II) complexes of Schiff bases derived from 3-formyl quinoline and 2, 6-diaminopyridine and their biological studies

Main Group Chemistry, Nov 2013, 12; 87-104

56. S Mutalik, H S Parekh, Y G Anissimov, J E Grice, M S Roberts

Iontophoresis - Mediated Transdermal Permeation of Peptide Dendrimers across Human Epidermis



- Skin Pharmacology and Physiology November 2013, 26; 127-138
- 57. Santanu Saha, Subrahmanyam EVS, Chandrashekar Kodangala, Shubhash C Mandal, Shashidhara C Shastry
 - Evaluation of antinociceptive and anti-inflammatory activities of extract and fractions of Eugenia jambolana root bark and isolation of phytoconstituents
 - Brazilian Journal of Pharmacognosy Aug 2013, 23, 651-661
- 58. PC Jagadish, Neeraj Soni and Amita Verma
 - Design, Synthesis, and In Vitro Antioxidant Activity of 1,3,5-Trisubstituted-2pyrazolines Derivatives
 - Journal of Chemistry, 2013, 01-06
- 59. Sudheer Moorkoth, Amrita Das, Jai Kumar Mishra, Sudeep M
 - Labeling of Food for Infants A Mute Story of Solicitude
 - International Journal of Pharmacy and Pharmaceutical Sciences Oct 2013, Vol 5(4), 59-64
- 60. Sudheer Moorkoth, Alex Joseph, Srinivasan KK and Gopalan Kutty
 - Synthesis and Evaluation of Biological Activity of Imidazolidinone Analogues of 2-Aminochromone
 - International Journal of Pharmaceutical Bioscience and Technology, August 2013, Vol 1(3), 130-141
- 61. Meenakshi Sharma, Richard Lobo, M Manjunath Setty, Saleemulla Khan, Chandrashekhar KS, CS Sreedhara
 - Free Radical Scavenging Potential of Terminalia Tomentosa(Roxb)Bark- An In Vitro Study
 - World Journal of Pharmaceutical Research, Vol 2(6), 2373-2381, Nov 2013
- 62. Meenakshi Sharma, Richard Lobo, M Manjunath Setty, Saleemulla Khan, Chandrashekhar KS. CS Sreedhara
 - In-Vitro Anti-Diabetic Evaluation of Terminali Tomentosa (Roxb) Bark
 - World Journal of Pharmaceutical Research, Nov 2013, Vol 2(6), 2366-2372
- 63. Gupta Nilesh, Richard Lobo, M Manjunath Setty, Saleemulla Khan and CS Sreedhara
 - Anthelmintic Activity of Alcoholic and Aqueous Extract of Vateria Indica Linn Der Pharmacia Lettre, October 2013, 5(5); 216-218
- 64. Kafeel A Khan, Nitesh Kumar, Pawan G Nayak, Madhavan Nampoothiri, Rekha R Shenoy, Nandakumar Krishnadas, C Mallikarjuna Rao and Jayesh Mudgal
 - Impact of caffeic acid on aluminium chloride-induced dementia in rats
 - Journal of Pharmacy and Pharmacology, July 2013,65, 1745-1752
- 65. Raghu Jetti, Raghuveer CV and Mallikarjuna Rao C



Protective effect of ascorbic acid and Ginkgo biloba against learning and memory deficits caused by fluoride

Toxicology and Industrial Health Sep 30, 2013, 1-5

66. PVR Chowdary, N Raveendran and Hina Ali

Rational Design and Synthesis of some Novel Substituted Acetamides Bearing 2- [3-Acetyl-(1 Hindol -1-YL/5- Methoxy-1H-Indol-1-YL)] Motifs and their Study for acetylcholinesterase inhibitory activity

International Journal of Research In Pharmacy and Chemistry, 2013, 3(4), 859-862

67. Akshaya Srikanth B, Akram Ahmad, Ravindra Reddy K, Rajesh Balkrishnan, Anantha Naik Nagappa

Acceptance of Doctor of Pharmacy in India: A Survey - based study

Archives of Pharmacy Practice, Jul - Sep 2013, Vol 4(3)

68. Prashant B Musmade, Anil Tumkur, M Trilok and K L Bairy

Fusidic Acid-Topical Antimicrobial in the Management of Staphylococcus Aureus

International Journal of Pharmacy & Pharmaceutical Sciences, Nov 2013, Vol 5(4)

69. Vamshi Krishna T, Lalit Kumar, M Sreenivasa Reddy, Muddukrishna BS, Girish Pai K

Market Complaints in Pharmaceuticals: A Brief Review on its Handling, Investigation and Reporting

Research Journal of Pharmaceutical Technology, Nov 2013, 6(11), 1314-1316

70. Sharad Kumar Suthar, Varun Jaiswal, Sandeep Lohan, Sumit Bansal, Anil Chaudhary, Amit Tiwari, Angel Treasa Alex, Alex Joesph

Novel quinolone substituted thiazolidin-4-ones as anti-inflammatory, anticancer agents: Design, Synthesis and biological screening

European Journal of Medicinal Chemistry, May 2013, 63, 589-602

71. Alex Joseph, Chaitanyakumar S Shah, Suthar Sharad Kumar, Angel Treasa Alex, Naseer Maliyakkal, Sudheer Moorkoth, Jessy E Mathew

Synthesis, in vitro anticancer and antioxidant activity of thiadiazole substituted thiazolidin - 4- ones

Acta Pharmaceutica, 2013, 63, 397-408

72. Chandrashekar K Subraya, Satyanarayana D and Yamini

Isolation & Characterization of steroids and a triterpenoid from Phyllanthus lawii Der Pharma Chemica, 2013, 5(5), 63-67

73. Chandrashekar K Subraya, Satyanadayana D

Evaluation of Antiinflammatory Activity of Pertroleum Ether Extract from Leucaslavandulaefolia Rees in Albino Rats

American Journal of Phytomedicine and Clinical Therapeutics, 2013, 1(7), 562-566



74. Sudheer Moorkoth, KK Srinivasan, N Gopalan Kutty, Alex Joseph, M Naseer

Synthesis and evaluation of a series of novel imidazolidinone analogue of 6-aminoflavone as anticancer and anti-inflammatory agents

Med Chem Res, (2013) 22, 5066-5075

75. Sahil Talwar, Pawan G Nayak, Jayesh Mudgal, Piya Paul, Punit Bansal and Krishnadas Nandakumar

Evaluation of In Vitro Antioxidant and In Vivo Analgesic Potential of Terminalia paniculata Aqueous Bark Extract

Journal of Medicinal Food 2013, 16(12), 1153-1161

76. Dasari Naga Naresh, Usha Yogendra Nayak, Om Prakash Ranjan

Preparation & characterization of Nelfinavir Mesylate nanocrystals by ball milling

International Journal of Research in Pharmaceutical Sciences 2013, 4(4), 586-592

77. Usha Y Nayak, Srinivas Mutalik, Yogendra Nayak

Polymethacrylate Coated Valsartan Tablets for Iieo-Colonic Delivery: Formulation Development and In Vitro and In Vivo Evaluations

Research J Pharm And Tech 2013, 6(12), 1362-1369

78. Vijaya Kumar S, Dhirendra B Sanghai, Mallikarjuna Rao C, Shreedhara CS

Antioxidant and anti-hyperlipidemic activity of Melia azedarach Linn Extracts in rats

Research J Pharm And Tech 2013, 6(11), 1195-1199

79. Sumit N Laxane, Surendra Swarnkar, Mruthunjaya K, Sachin B Zanwar and Manjunath Setty M

Jatropha curcas: A Systemic Review on Pharmacological, Phytochemical, Toxicological Profiles and Commercial Applications

Research Journal of Pharmaceutical, Biological and Chemical Sciences 2013, 4(1), 989-1009

80. Smrithi, K Narayanan, Venkatesh Kamath B

Design of Cultural Conditions for Enhancement of Alkaline Protease Production

Pharmanest- An International Journal of Advances in Pharmaceutical Sciences 2013, 4(6), 1438-1446

81. Smrithi S, K Narayanan, J Venkata Rao, Venkatesh Kamath B

Bioprospecting of Microbes Producing Commercially Useful Products

Pharmanest - An International Journal of Advances in Pharmaceutical Sciences 2013, 4(6), 1419-1426

82. KR Ethiraj, P Nithya, V Krishnakumar, A Jesil Mathew, F Nawaz Khan

Synthesis and cytotoxicity study of pyrazoline derivatives of methoxy substituted napthyl chalones



Research Chemical Intermediated 2013, 39, 1833-1841

83. Geetha Mathew, Anija Jacob, Ega Durgashivaprasad, ND Reddy, MK Unnikrishnan 6b,11b-Dihydroxy- 6b,11b-dihydro- 7H-indeno [1,2-b]naphtha [2,1-d] furan-7-one (DHFO), a small molecule targeting NF-kB, demonstrates therapeutic potential in immunopathogenic chronic inflammatory conditions

International Immuno pharmacology 2013, 15, 182-189

84. Sudheer Moorkoth, Sunny Kumar, Aravind Pai, Venkatesh Kamath B

Stability Indicating Analytical Method Development and Validation of Lafutidine in Tablet Dosage Form by RP-HPLC

Mintage Journal of Pharmaceutical & Medical Sciences 2013, 2, 18-21

85. Deepthi V, Sudheer Moorkoth

Regulation of Cosmetics and its Advertisements in India with an overview of us regulations

Pharmanest An International Journal of Advances in Pharmaceutical Sciences 2013, 4(6), 1661-1674

86. Sudheer Moorkoth and Naseer M

Evaluation of Anti-Cancer Properties of Heartwood of caesalpinia sappan Mintage Journal of Pharmaceutical & Medical Sciences 2013, 2, 22-25

87. Saraswathi Deepthi, Sudeer M, Sudheer Moorkoth

Current scenario and regulatory framework of paediatric drugs in the united states (us) and europe with a brief perspective to india

PHARMANEST an International Journal of Advances in Pharmaceutical Sciences 2013, 4(6), 1675-1686

88. M Manjunath Setty, Gupta Nilesh, Richard Lobo, Saleemulla Khan and CS Sreedhara

Anthelmintic Activity of Alcoholic and Aqueous Extract of Anisochilus carnosus

Research Journal of Pharmaceutical, Biological and Chemical Sciences 2013, 4(4), 1666-1670

89. Koteshwara KB, Naha Anup, Sunil P, Sai Kiran

Method Development and Validation of Glibenclamide in Tablet Dosage form by Using RP-HPLC

Journal of Harmonized Research 2013, 2(4), 226-230

90. Anand Reddy, Suvarna G Kini and Muhammad Mubeen

Synthesis and Biological evaluation of Novel Triazolo-thiadiazole derivates

Der Pharma Chemica 2013, 5(6), 259-272

91. Vamshi Krishna T, M Sreenivasa Reddy



Formulation and Evaluation of Fixed Dose Combination Tablets of Rifampicin and Isoniazid with Improved Rifampicin Stability

Research Journal Pharmaceutical & Technology 2013, 6(12) 1468-1470

92. Shilpi Kumari, Akhil Koundinya, Manthan D Janodia, Amita R Vats, Sureshwar Pandeym Sandeep Maharaj and N Udupa

Trends in Development of Orphan Drugs - A Review

Open Access Scientific Reports 2013, 2(II)

93. Murali Munisamy, Manjari Tripathi, Madhuri Behari, S Raghavan, DC Jain, Barghavi Ramanujam, Karthik Arumugam, Thiyagu Rajakannan, Surulivel Rajan Mallayasamy, Vivekanandhan Subbiah

The Effect of Uridine Diphosphate Glucuronosyltransferase (UGT)1A6 Genetic Polymorphism on Valproic Acid Pharmacokinetics in India Patients with Epilepsy: A Pharmacogenetic Approach

Mol Diagn Ther 2013, 15, 319-326

94. Surulivelrajan Mallaysamy, Martin G Johnson, Padma GM Rao, Thiyagu Rajakannan, Lokesh Bathala, Karthik Arumugam, Johan GC, van Hasselt, Devarakonda Ramakrishna

Population Pharmacokinetics of lamotrigine in Indian epileptic patients

Eur J Clin Pharmacol, 2013, 69; 43-52

95. KR Ethiraj, Jesil Mathew Aranjani, F Nawaz Khan

Potential cytotoxic and apoptosis inducing agents: synthesis and evaluation of methoxy – substituted chalcones against human lung and cervical cancers

Medicinal Chemistry Research 2013, 22, 5408-5417

96. Vinayanarayana K, Rau NR, Anantha Naik N, Bini John P, Rajesh V, Sreedharan, Thiyagu R

Hospital acquired pneumonia: a multivariate analysis of risk and outcome

Asian Journal of Pharmaceutical and Health Sciences Oct – Dec 2013, Vol 3(4), 743-746

97. Vaishnavi Naik, Varsha A Prabhu, Rajesh V, Surulivel Rajan M, Shastry BA, Saravu Kavitha

Ethambutol Induced Exfoliative Dermatitis

Asian Journal of Pharmaceutical and Health Sciences Jul – Sep 2013, 3(3), 741-742

98. Rajesh V, Surulivel Rajan M, Vijayanarayana K, Lakshmi Sravanthi, Pranitha M, Gabriel Rodrigues, Anand Rao BH, Thiyagu R

Development of trigger tool for identifying adverse events in surgery: Experience of a pilot study

Asian Journal of Pharmaceutical and Health Sciences Jul – Sep 2013, 3(3), 791-799



99. Girish Thunga, Sureshwar Pandey, Sreedharan Nair, Rama Mylapuri, Sudha Vidyasagar, Vijayanarayana Kunhikatta, Bhrugu Pariti, Masoom Priyadarshini

Comparative Study of Continuous Pralidoxime Infusion versus Intermittent Dosing: Application of High- Performance Liquid Chromatography Method on Serum of **Organophosphate Poisoned Patients**

Asia Pacific Journal of Medical Toxicology, Sept 2013 Vol 2 (3), 105-110

100. Leelavathi D Acharya, N R Rau and N Udupa, Jean John and Surulivelrajan **Mallayasamy**

Study of prescription pattern of antihypertensive medications in Type – 2 Diabetic **Patients**

International Journal of Pharmaceutical Research, 2013

101. Srinivasa Rao Sirasanagandla, K Sreedhara Ranganath Pai, Kumar MR Bhat

Preventive Role of Emblica Offcinalis and Cissus Quadrangularis on Bone Loss in Osteoporosis

International Journal of Pharmacy and Pharmaceutical Sciences 2013, Vol 5(4), 122-127.

102. Surulivelrajan M, Mathew Joy, Suhaj A, Rajesh V, Mohan K Manu

Study to Assess the Utility of Close test in Readability Assessment of Patient Information Leaflets in English and Indian Languages

Asian Journal of Pharmaceutical and Health Sciences Oct – Dec 2013, Vol 3(4), 824-829

103. Satyajit Patra, Roshan Mascarenhas, Naseer Maliyakkal and Jesil Mathew Aranjani

Protocatechualdehyde Induces Apoptosis in Human Non-Small Cell Lung Cancer Cells by up Regulation of Growth Arrest and DNA Damage- Inducible (GADD) Genes

Molecular Biology 2013, 2(2), 1-9

104. Kannatt Radhakrishnan Ethiraj, Jesil Mathew Aranjani and Fazlur - Rahman Nawaz

Synthesis of Methoxy - substituted Chalcones and in vitro Evaluation of their **Anticancer Potential**

Chemical Biology Drug Design 2013, 82, 732-742

105. Sudheer Moorkoth, Yogesh Gujar, Divyasree Bukka

Can India Repeat the Success of Generics in US (United States) Biosimilar Market? An Analysis of Current FDA's Stand on Biosimilars

Pharma Times, January 2013, 45(1) 27-31

106. Ranjan Shetty K, Anil Tumkur, Krishnamurthy Bhat, Biby Chacko

An Unusual Cause of Cardiac Arrest in a Hospitalization Patient

Journal of Pharmacology and Pharmacotherapeutics, Jan - March 2013, 4(1), 72-73



- 107. D Sreedhar, Virendra SL, Muragundi PM, Manthan J & N Udupa
 - Perception of General Public about complementary and Alternative Medicine: A Qualitative Research
 - The Pharma Review Jan Feb 2013, 11(65), 48-50
- 108. Usha Yogendra Nayak, Gopal V Shavi, Srinivas Mutalik, Nayanabhirama Udupa Formulation and Evaluation of Multiparticulate Drug Delivery System of Valsartan Research Journal of Pharmacy Technology, Jan 2013, 6(1); 96-104
- 109. Manthan D Janodia, D Sreedhar, Virendra Ligade, Pradeep Muragundi & N Udupa Patents and Access to Affordable Medicines - Striking a Balance The Pharma Review, March - April 2013, 50-51
- 110. Anantha Naik Nagappa, Asim Priyendu, Uday Venkat Mateti, Swapna S & Vaishnavi Naik
 - Impact of Compulsory Licensing on Indian Generic Drug Industry
 - The Pharma Review, March April 2013, 61-63
- 111. Leelavathi D Acharya, N R Rau and N Udupa Impact of Hypertension and Dyslipidemia in Diabetic Patients Indian Journal of Hospital Pharmacy May- June 2013, 50(3), 65-68
- 112. Virendra S Ligade, D Sreedhar, J Manthan, M Pradeep and N Udupa Nutraceuticals, Cosmeceuticals and Nutricosmetics: New Era of Health and Beauty Indian Journal of Hospital Pharmacy May- June 2013, 50(3),69-70
- 113. K Narayanan, Nagesh Chopade, P Vasanth Raj, V M Subrahmanyam & J Venkata Rao
 - Fungal Chitinase Production and its Application in biowaste management Journal of Scientific & Industrial Research, June 2013, Vol 72, 393-399
- 114. Dhanya Sunil, Arun M Isloor, Prakash Shetty and Pai KSR Toxicity Studies of Triazolo - Thiadiazoles in Ehrlich Ascitic Carcinoma Cells Research Journal of Pharmaceutical Sciences July 2013, Vol 2(6); 1-6
- 115. Sumit Kumar Jain, SG Vasantharaju, Raghavendra Shetty, Naresh Bejugam, Syed Sajjad Hussen and Krishnamurthy Bhat
 - Determination of Lamotrigine and Felbamate in Pediatric Plasma Samples by Reverse Phase High- Performance Liquid Chromatography
 - Indian Journal of Pharmaceutical Education and Research April- June 2013, 47(2), 160-167
- 116. PVR Chowdhary, N Raveendran and KC Mehta
 - Rational Design and Synthesis of some Substituted Aminoethanones and Acetamides as Novel Acetyl Cholinesterase Inhibitors



Advanced Research in Pharmaceuticals and Biologicals April - June 2013, 3(II), 400-402

117. Manthan D Janodia, Sreedhar Dharmagadda, Virendra Ligade, Pradeep Muragundi, Prashant Musmade, N Udupa

Spurt of Scientific Journal Publishing in India - Business or Knowledge Sharing? Current Sciences, Vol August 2013, 105(4), 433-434

118. Manthan D Janodia, Sreedhar D, Virendra S Ligade, Pradeep Muragundi, N Udupa Treading a Careful Path to Strike Balance between Innovation and Affordable Medicines in India

Indian Journal of Hospital Pharmacy, August 2013, 50, 91

119. Kavitha Saravu, Sonal Sekhar, Ananth Pai, Ananthakrishna Shastry Barkur, V Rajesh, Jagadeswara Rao Earla

Paraquat - A Deadly Poison: Report of a Case and Review Indian Journal of Critical Care Medicine, May - June 2013, 17(3)

120. Prasanna RD, Ahsan FKK, Sudeepthi BL, Kasim S, Sonal SM, Manohar B, Ravindra AP

Assessment of Medicine Information Provided on Demand by Clinical Pharmacists in Nephrology Wards in a Tertiary Care Hospital

Indian Journal of Pharmacy Practice Apr - June 2013, 6(2)

121. Kranti M, Virendra SL Prashant M, Reddy MS, Udupa N

Sunscreen Regulation: An Overview

The Pharma Review, August 2013, 140 – 145

122. Inder K Makhija, Chandrashekara S Shreedhara, HN Aswatha Ram Mast cell stabilization potential of Sitopaladi churna: An Ayurvedic formulation Pharmacognosy Research, October - December 2013, 5(4), 306 – 308

123. Sreedhar D,Manthan J, Virendra L, Pradeep M and Udupa N Need for the Introduction of Pharmacoeconomics in Pharmacy Curriculum Pharma Times, October 2013, Vol 45(10), 27

124. John Preshanth Kumar, Manjunath Hande, Muralidhar Varma, Chiranjay Mukhyopadhay, Surulivelrajan Mallayasamy

Clinical Pharmacist's ward round Experiences of Antimicrobial Utilization: Need for a Sustainable Stewardship Program for a University Tertiary Care Hospital

International Journal of Pharma Research, May 2013, 4, 37-44

125. Virendra SL, Sreedhar D, Manthan, Pradeep M & Udupa N

Biosimilars: A Brief Overview

The Pharma Review, Sep - Oct 2013, 41-43,



- 126. Shalini Sasidharan, Sonal Sekhar M, Suhaj A, RajeshV, Siby Joseph, Suja Abraham A Study on Prescription Pattern and Adverse Effects of Migraine Medication Indian Journal of Hospital Pharmacy, 2013, 50
- 127. Narayanan K , Chopade ND, Subrahmanyam VM and Venkata Rao J Strain Improvement of a Fungus Producing Chitinase by a Chemical Mutagen Indian Drugs, November 2013, 50(1), 25-28
- 128. Varadraj Bhatt, Rimjhim Kumari and Ruchi Verma
 Analysis of Various Tea Samples
 International Journal of Phytopharmacy, May Jun 2013, Vol 3(3), 68-71
- 129. Verma Ruchi, Kumar Lalit and Kurba Vijaya Bhaskar Isoniazid – a wonder drug in tuberculosis management Novel Science International Journal of Pharmaceutical Science (2013), 2(3-4):73-77
- 130. Verma Ruchi, Kumar Lalit, Kurba Vijaya Bhaskar and Sudhakar G K An overview on tea International Journal of Pharmacological Research 2013, Vol 3, No 3, 36-41
- 131. Ruchi Verma, Lalit Kumar and Vijay Bhaskar Kurba
 Tobacco consumption and awareness of their health hazards amongst remote village area in Uttar Pradesh
 International Journal of Biomedical Research 2013, 04(10), 567-570
- 132. L Kumar, MS Reddy, RK Shirodkar, GK Pai, VT Krishna and R Verma Preparation and Characterisation of Fluconazole Vaginal Films for the Treatment of Vaginal Candidiasis Indian Journal of Pharmaceutical Sciences, 75(5), September - October 2013, 585-590
- 133. Prashant B Musmade, Manthan D Janodia, Swapnil J Dengale, P Chandra Sekhar, Virendra S Ligade & N Udupa

USFDA Warning Letter: A Primer
The Pharma Review, Nov - Dec 2013, 82 - 84

134. Vaghasiya D Bhavesh, Yogendra Nayak, Jayashree BS

In Vitro Antioxidant and Antiglycation Activity of Zingiber zerumbet(Wild Zinger) Rhizome Extract

International Journal of Research in Pharmaceutical Sciences, 2013, 4(4), 482-489

135. GK Sudhakar, Vasudev Pai, Arvind Pai

An overview on current Strategies in Breast Cancer Therapy Research Journal of Pharmacology and Pharma-codynamics: 2013, 5(6), 353-355

136. GK Sudhakar, Venkatesh Kamath B, Aravind Pai



Therapeutic Approach in the Treatment of Obesity

Mintage Journal of Pharmaceutical & Medical Sciences 2013, 2, 4-6

137. GK Sudhakar, Vasudev Pai, Arvind Pai, Venkatesh Kamath

Therapeutic Approaches in the Management of Plantar Warts by Human Papillomaviruses: A review

Asian Journal of Biomedical and Pharmaceutical Sciences 2013, 3(26) 1-4

138. GK Sudhakar, Aravinda Pai, Venkatesh Kamath, Vasudev Pai

History Of Aspirin In Allopathy

International Journal of Innovative Research & Studies 2013, 02(10), 244 - 249

139. GK Sudhakar, Venkatesh Kamath B, Aravind Pai, Vasudev Pai

Chelation Therapy

Pharmanest - An International Journal of Advances in Pharmaceutical Sciences 2013, 4(6), 1458-1463

140. GK Sudhakar, Aravinda Pai, Richard Lobo, Venkatesh Kamath

Natural Products as Effective Free Radical Scavengers

Mintage Journal of Pharmaceutical & Medical Sciences 2013, 2(1), 01-03

141. GK Sudhakar, Venkatesh Kamath B, Aravind Pai

Breathing Trouble - Asthma

Pharmanest-An International Journal of Advance Pharmaceutical Sciences 2013, 4(6), 1294-1298

142. GK Sudhakar, Aravinda Pai, Venkatesh Kamath B

ABC OF SLEEPING DISORDER

PHARMANEST - An International Journal of Advances in Pharmaceutical Sciences 2013, 4(6), 1282-1289

143. Usha Yogendra Nayak, Gopal Venkatesh Shavi

Timed Release of Valsartan from Programmable Release Capsules: Importance of Plasticizers

Indian Journal of Pharmaceutical and Biological Research (IJPBP) 2013, 1(4), 102-107

144. Piya Paul Mudgal and M K Unnikrishnan

Research and Publication Ethics

SRGUHS J Pharmaceutical Sciences 2013, 3(1), 06-13

145. Muragundi PM, Anantha Naik N, Sreedhar D, Virendra SL, N Udupa

Essentials of Pharmacoeconomics

Indian Journal of Hospital Pharmacy 2013, 50, 143-146

146. K Vijayabhaskar, Kamala K Vasu and Praveg Patel



Synthesis and Antioxidant Activity of Tetrahydrobenzo[b] Pyran and its Derivatives Indian Journal of Heterocyclic Chemistry 2013, 23, 47-50

147. Sukrit Nigam, JV Rao and B S Jayashree

Microbial biotransformation - A Novel approach for modify- cation on coumarin substrates

Indian Journal of Biotechnology 2013, 12, 379-385

148. Medikonduri Usha Sree, Lewis Shaila & Anantha Naik N

Applications of Thiolated Chitosans in Drug Delivery

The Pharma Review 2013, 65-71

149. Shirish Inamdar, Girish Thunga, Dr Raviraja Acharya, Vijaynarayana K, Shridharan N, Bhrugu P

Study of Clinical Characteristics and Treatment Pattern of Scrub Typhus in Tertiary Care Hospital

Journal of Pharmaceutical Sciences and Research 2013, 5(5), 107-110

150. Varsha A Prabhu, Sahiti Doddapaneni, Girish Thunga, Rajakannan Thiyagu, M Mukyaprana Prabhu, Kushal Naha

Phenytoin induced Stevens - Johnson syndrome exacerbated by cefepime

Journal of Pharmacology and Pharmacotherapeutics, Oct - Dec 2013, Vol 4(4), 291-293

Publications in 2012 (Total Publications 112)

1. Raghavendra V Kulkarni, Rashmi Boppana, G Krishna Mohan, Srinivas Mutalik, Navanath V Kalyane.

pH-responsive interpenetrating network hydrogel beads of poly (acrylamide)-g-carrageenan and sodium alginate for intestinal targeted drug delivery: Synthesis, *in vitro* and *in vivo* evaluation.

Journal of Colloid and Interface Science, 2012, 367(1), 509-517.

2. Srinivas Mutalik, Usha Y Nayak, Rohit Kalra, Aravind Kumar, Raghavendra V Kulkarni and Harendra S Parekh.

Sonophoresis-mediated permeation and retention of peptide dendrimers across human epidermis.

Skin Research and Technology, 2012, 18(1), 101-107.

3. B S Jayashree, Afroze Alam, Yogendra Nayak, D Vijay Kumar.

Synthesis of 3-methylflavones and their antioxidant and antibacterial activities. Medicinal Chemistry Research, 2012, 21(8), 1991-1996.

4. Parvathy R Chandran, M Naseer, N Udupa and Sandhyarani.



Size controlled synthesis of biocompatible gold nanoparticles and their activity in the oxidation of NADH.

Nanotechnology, 2012, 23(1), 015602.

5. Swapnil M More, Srinivas Mutalik, Raghavendra V Kulkarni and Navanath V Kalyane.

Formulation and evaluation of sodium alginate discs for prologed release of glipizide. Journal of Pharmacy Research, 2012, 5(1) 389-390.

6. Anantha Naik Nagappa, Jomy Joy.

Perspectives in regulations of internet pharmacy.

The Pharma Review, Jan-Feb 2012, 73-77.

7. B S Ashok Kumar, K Lakshman, K N Jayaveera, D Sheshadri Shekar, Saleemulla Khan, B S Tippeswamy, Veeresh P Veerapur.

Antidiabetic, antihyperlipidemic and antioxidant activities of methanolic extract of *Amaranthus viridis* Linn in alloxan induced diabetic rats.

Experimental and Toxicologic Pathology, 2012, 64(1-2), 75-79.

8. Pradeep Hulikare Ananth, Saleemulla Khan, Raghu Chandrasekhar, Mohammed Ibrahim.

Development of validated HPTLC method for simultaneous quantification of rutin and quercetin from bark of *Anogeissus latifolia*. I

nternational Journal of Pharmacy, 2012, 2(1), 33-38.

9. Shreedhara C S, Aswatha Ram H N, Sachin B Zanwar, Falguni P Gajera.

In vitro antioxidant potential of ethanolic extract of Momordica dioica Roxb (Cucurbitaceae).

Pharmacologyonline, 2012, 3, 622-633.

10. Haritha Nekkanti, Uday Venkat Mateti, Rajesh V, Thiyagu Rajakannan, S Rajan Mallayasamy, Ramachandran Padmakumar.

Predictors of warfarin-induced bleeding in a south Indian cardiology unit.

Perspectives in Clinical Research, 2012, 3(1), 22-25.

11. S Shah, S G Vasantharaju, K Arumugam, B S Muddukrishna, N Desai.

Development of a sensitive bioanalytical method for the quantification of lacosamide in rat plasma. Application to Preclinical Pharmacokinetics Studies in Rats. Arzneimittelforschung, 2012, 62(5), 243-246.

12. Aswatha Ram H N, Neeraj K Sriwastava, Inder K Makhija, Shreedhara C S.

Anti- inflammatory activity of *Ajmodadi churna* extract against acute inflammation in rats.

Journal of Ayurveda & Integrative Medicine, 2012, 3(1), 33-37.



- 13. Anup Naha, Girish Pai K, Usha Y Nayak, M S Reddy, K B Koteshwara, N Udupa. Implementation of task based learning for overall development of pharmacy students. Research Journal Pharmaceutical and Technology, 2012, 5(2), 291-294.
- 14. Gupta Daksha, Kondongala Subraya Chandrashekar, Richard Lobo, Gupta Nilesh, Kalarikkal Reshma.

Pharmacognostic and phytochemical investigation of the stem bark of *Bauhinia* purpurea.

International Research Journal of Pharmacy, 2012, 3(2), 166-168.

15. Archana, Kumar Sandeep, Mahalaxmi R, Shirwaikar A A, Shirwaikar A.

Physico-chemical characterization and evaluation of disintegrating property of *Lepidium sativum* seed mucilage.

Journal of Pharmacy Research, 2012, 5(1), 61-65.

16. Vamshi Krishna T, M Vishnu Datta, Y S S Kishan, V Aditya, Bhanuprakash. Comparative study on the teaching effective of chalk & talk and Microsoft PowerPoint presentation from the student pespective.

International Journal of Pharmacy and Pharmaceutical Sciences, 2012, 4(1), 191-193.

17. Girish Pai K, Vamshi Krishna T, M Sreenivasa Reddy, Y S S Krishna, V Aditya, G Bhanuprakash, M Vishnu Datta.

Physical evaluation of the uncoated tabelts of glimepiride with different types of primary packaging.

Research Journal of Pharmaceutical and Technology, 2012, 5(3), 404-407.

18. Rajalekshmi Maheswari, Sathyanarayana, Chandrashekar Kodangala Subraya, Billadi Sangeetha, Koppala Narayana Sunil Kumar, Santhanu Saha.

Isolation of triterpenoids from petroleum ether extract of stem bark of *Anthocephalus cadamba*.

International Journal of Pharma World Research, 2012, 3(2), 1-8.

19. Vishnu Datta, Chandrashekar, Lobo Richard, Gupta Daksha, Gupta Nilesh. Micheliachampacalinn: a review of its ethnobotany phytochemical and pharmacological profile.

International Journal of Pharma World Research, 2012, 3(2), 1-11.

20. Pradep M Muragundi, Anil Tumkur, Ananth N Naik.

Unethical marketing practices by pharmaceutical industry.

The Pharma Review, March-April 2012, 144-147.

21. P Vikas, Ananth Naik Nagappa.

Medicines for tomorrow - the monoclonal antibodies.

The Pharma Review, March-April 2012, 48-51.

22. Chandrashekar Kodangala Subraya, Harikiran, Daksha Gupta.



Antioxidant and anti-inflammatory activity of Alstonia scholaris RBr stem bark extract. Free Radicals and Antioxidants, 2012, 2(2), 55-57.

23. K B Koteshwara, Anup Naha, Bishu Choubey.

Novel economical technique for the formulation of fast dissolving tablet.

Research Journal Pharmaceutical and Technology, 2012, 5(4), 483-489.

24. S G Vasantharaju, P Namita, Syed Sajjad Hussen.

Quantification of domperidone, paracetamol, esomeprazole and lansoprazole in pharmaceutical dosage forms by reverse phase high performance liquid chromatography.

International Journal of Pharmacy and Pharmaceutical Sciences, 2012, 4(3), 303-306.

25. Radhakrishnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma, Shreekant Sharma.

Design and evaluation of pictograms for communicating information about adverse drug reactions to antiretroviral therapy in Indian human immunodeficiency virus positive patients.

Journal of Pharmaceutical and Biomedical Sciences, 2012, 16(10), 1-11.

26. Uday Venkat Mateti, Haritha Nekkanti, Rajesh V, Thiyagu Rajakannan, Surulivelrajan Mallayasamy, Padmakumar Ramachandran.

Pattern of angiotensin-converting enzyme inhibitors induced adverse drug reactions in South Indian teaching hospital.

North American Journal of Medical Sciences, 2012, 4(4), 185-189.

27. Prashanth Kumar S, Mandahasan A, Vijay Kumar S, Dhirendra B Sanghai, Shreedhara CS, Manjunath Setty M.

Production of secondary plant metabolite phyllanthin in Phyllanthus niruri Linn by leaf tissue culture.

Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2012, 3(2), 752-760.

28. K S R Pai, P Srilatha, Kumar Suryakant, M Manjunath Setty, Pawan G Nayak, C Mallikarjuna Rao, M S Baliga.

Anticancer activity of *Berberis aristata* in Ehrlich Ascites Carcinoma-bearing mice: A preliminary study.

Pharmaceutical Biology, 2012, 50(3), 270-277.

Richard Lobo, Jaykumar Bhagat, Mamatha Ballal, Nilesh Gupta.

Histo-anatomical Study of Anisochilus carnosus (L.F.) Wall:

An Indian habitant. Research Journal of Medicinal Plant, 2012, 6(6), 456-460.

30. Daisy Augustine, Anantha Naik Nagappa, BM Vadiraj, Rajesh Balkrishnan, N Udupa.



Survival outcomes associated with chemotherapy treatment in a cohort of women with breast cancer in Southern India.

GSTF Journal of BioSciences, 2012, 2(1), 1.

31. Avinash Ladda, Leelavathi D Acharya, Shalini, Girish Thunga.

Development and validation of patient information leaflet.

Indian Journal of Hospital Pharmacy, 2012, 49, 72-78.

32. Gupta Daksha, Chandrashekar, Richard Lobo, Yogendra, Gupta Nilesh.

In-vitro antidiabetic activity of stem bark of *Bauhinia purpurea* Linn.

Der Pharmacia Lettre, 2012, 4(2), 614-619.

33. Gupta Daksha, Kondongala Subraya Chandrashekar, Richard Lobo, Gupta Nilesh.

Anthelmintic activity of stem bark of *Bauhinia purpurea* Linn.

Der Pharmacia Lettre, 2012, 4(2), 662-664.

34. S Vijaya Kumar, Dhirendra B Sanghai, C Mallikarjuna Rao, C S Shreedhara.

Histological and physiochemical standardization of *Melia azedarach* Linn bark.

Asian Pacific of Tropical Biomedicine, 2012, 2(1), S284-S289.

35. Rajalekshmi Maheswari, Darbarmulla Sathyanarayana, Chandrashekar Kodangala Subraya, Billadi Sangeetha, Koppala Narayana Sunil Kumar, Santhanu Saha.

Anti- snake venom activity of stem bark of *Anthocephalus cadamba*.

Internationa Journal of Pharma World Research, 2012, 3(2), 1-8.

36. Gollapalle L Viswanatha, B Janaki Priyadarshini, Nandakumar Krishnadas, Saravanan Janardhanan, Srinath Rangappa, Shylaja Hanumanthappa.

Synthesis and antihistaminic activity of 3H-benzo [4,5] thieno [2,3-d][1,2,3] triazin-4-ones.

Saudi Pharmaceutical Journal, 2012, 20(1), 45-52.

37. Kumar Sandeep, Shweta, Singh Nisha, Setty M Manjunath, Arti.

Combination of natural drugs: An emerging trend in cancer chemotheraphy.

Journal of Drug Delivery & Therapeutics, 2012, 2(3), 97-105.

38. Ranjith Y, Manthan D Janodia, Jagadish PC, K M Bhat, Swati Karande, N Udupa.

Scenario of generic drug regulations for ASEAN countries. Inventi Impact:

Pharmacy Practice, 2012, Article ID - Inventi:ppp/174/12.

39. Manthan D Janodia, Sreedhar Virendra, Ajay Pradeep, Prashan M, Udupa N.

Importance of patent drafting and types of patent claims.

The Pharma Review, May-June 2012, 46-48.

40. Ranjith K Averineni, Gopal V Shavi, Aravind K Gurram, Praful B Deshpande, Karthik Arumugam, Naseer Maliyakkal, Sreenivasa R Meka and Udupa Nayanabhirama.



PLGA 50:50 nanoparticles of paclitaxel: Development, in vitro anti-tumor activity in BT-549 cells and in vivo evaluation.

Bulletin of Materials Science, 2012, 35(3), 319-326.

41. Swapnil Merghade, Prashant B Musmade, Sudheer Moorkoth.

High-Performance Liquid chromatographic assay Ziprasidone in plasma samples: Application to pharmacokinetics studies in rats.

Journal of Chromatographic Science, 2012, 50(10), 902-908.

42. Ranjith Y, Jagadish P C, Manthan D Jonodia, Vasantharaju S G, Gautham Shenoy G, Udupa N.

An overview of Non-prescription drug regulations for India, United States, Australia and Europe.

Inventi Impact: Pharmacy Practice, 2012, Article ID - Inventi:ppp/147/12.

43. Venkatachalam H, Yogendra Nayak, B S Jayashree.

Evaluation of the antioxidant activity of novel synthetic chalcones and flavonols.

International Journal of Chemical Engineering and Applications, 2012, 3(3), 216-219.

44. Punit Bansal, Piya Paul, Jayesh Mudgal, Pawan G Nayak, Steve Thomas Pannakal, K I Priyadarsini, M K Unnikrishnan.

Antidiabetic, antihyperlipidemic and antioxidant effects of the flavonoid rich fraction of Pilea microphylla (L.) in high fat diet/streptozotocin-induced diabetes in mice.

Experimental and Toxicologic Pathology, 2012, 64(6), 651-658.

45. Suvarna G Kini, Shivani Choudhary, Muhammad Mubeen.

Synthesis, docking study and anticancer activity of coumarin substituted derivatives of benzothiazole.

Journal of Computational Methods in Molecular Design, 2012, 2(1), 51-60.

46. Nagaraj Bhalki, Balaraju T C, Vinayaka N T, Rajkumar P N, Sreekantha, Sudharkar G K, Yogesh B.

To compare the outcome of minor anorectal surgeries under local anaesthesia versus spinal anaesthesia.

International Journal of Pharma and Bio Sciences, 2012, 3(3), B187-B201.

47. Abhisek Sharma, Ankush Madaan, Anantha Naik Nagappa.

Medication storage and self medication practice among the youth in Karnataka region, India.

International Journal Pharmaceutical Sciences and Research, 2012, 3(8), 2795-2800.

Nitesh Kumar, Vasanth P Raj, B S Jayshree, Sidhartha S Kar, Arvind Anandam, Seeja Thomas, Prateek Jain, Amita Rai, C M Rao.

Elucidation of structure-activity relationship of 2-quinolone derivatives and exploration of their antitumor potential through Bax-induced apoptotic pathway.

EVALUATIVE REPORT OF THE DEPARTMENT



Chemical Biology & Drug Design, 2012, 80(2), 291-299.

49. Prabhakara Prabhu, Rakshith Shetty, Marina Koland, Vijayanarayana K, Vijayalakshmi K K, Harish Nairi M, Nisha G S.

Investigation of nano lipid vesicles of methotrexate for anti-rheumatoid activity.

International Journal of Nanomedicine, 2012, 7, 177-186.

50. Piya Paul, Punit Bansal, Pawan G Nayak, Steve Thomas Pannakal, K I Priyadarsini, M K Unnikrishnan.

Polyphenolic fraction of *Pilea microphylla* (L.) protects Chinese hamster lung fibroblasts against γ -radiation-induced cytotoxicity and genotoxicity.

Environmental Toxicology and Pharmacology 2012, 33(1), 107-119.

51. Sujitha M, Geetha Thanga Mariappan, Mahalaxmi Rathnanand.

Preperation and evaluation of orally disintegrating tablets of telmisartan with pH independent release.

International Journal of PharmTech Research, 2012, 4(3), 1154-1158.

52. Chandrashekar G P, Chandrashekar K S, Abinash B, Rajalakshmi.

Analgesic activity of Anthocephalus cadamba stem bark extract.

Novel Science International Journal of Pharmaceutical Sciences, 2012, 1(6), 353-355.

53. Inder Kumar Makhija, Chandrashekhar Shastry Shreedhara, Holavana Hally Nanjundaiah Setty Aswatha Ram.

Physico-chemical standardization of Sitopaladi churna.

Ancient Science of Life, 2012, 31(3), 107-116.

54. Raghavendra V Kulkarni, Srinivas Mutalik, Banappa S, Mangond, Usha Y Nayak.

Novel Interpenetrated polymer network microbeads of natural polysaccharides for modified release of water soluble drug: *in vitro* and *in vivo* evaluation.

Journal of Pharmacy and Pharmacology, 2012, 64, 530-540.

55. Virendra Ligade, D Sreedhar, Manthan J, Ajay P, Pradeep M and N Udupa. Cosmetic packaging: silent salesman in self-service market. The Pharma Review, Sept-Oct 2012, 65-69.

56. A Tumkur, PM Muragundi, R Shetty, A Naik.

Pharmaceutical care: Need of the hour in India.

Journal of Young Pharmacist, 2012, 4(4), 282-286.

57. Shreedhara C S, Ghosh A, Shenoy G, Shetty R, Kumar V S, Sanghai D B.

Stability testing of Alliin by RP HPLC coupled with Electro Spray Ionization Tandem Mass Spectrometry in Unani formulations.

Asian Journal of Biomedical & Pharmaceutical Sciences, 2012, 2(15), 25-27.



Daisy P A, Nagappa Anantha N, Udupa N, Vadhiraja B M, Rajesh Balkrishnan. 58.

Evaluation of outcomes of breast cancer with a special focus on economic impact and quality of life - A pilot study.

Journal of Pharmaceutical Research, 2012, 11(4), 118-122.

59. Anantha Naik N, Asim Priyendu, Pradeep M Muragundi, Haritima Joshi.

Mushrooming of pharmaceutical educational institutions and aftermath.

International Journal of Community Pharmacy, 2012, 5(3), 6-11.

Sahana Kini, Muragundi P M, Anantha N N. 60.

Ethical issues of patient confidentiality in clinical trials.

International Journal of Community Pharmacy, 2012, 5(3), 20-24.

Rohit Kalra, Pallavi Shetty, Srinivas Mutalik, Usha Y Nayak, M Sreenivasa Reddy, Udupa N.

Pharmaceutical applications of radio-frequency identification.

Systematic Reviews in Pharmacy, 2012, 3(1), 24-30.

62. Angel T Alex, Niranga Hansini Nawagamuwa, Alex Joseph, Josyula V Rao, Jesil A Mathew, Nayanabhirama Udupa.

In vitro anti-cancer and anti-oxidant activity of different fractions of Diospyros peregrina unripe fruit extract.

Free Radicals and Antioxidants, 2012, 2(4), 45-49.

63. Daksha G, Chandrashekar KS, Richard L, Sreedhara CS.

In vitro antioxidant activity of *Bauhinia purpurea* stem bark extract.

Novel Science International Journal of Pharmaceutical Sciences, 2012, 1(8), 501-502.

64. Vamshi Krishna T, Girish Pai K, M Sreenivasa Reddy, Y S S Krishan, V Aditya, G Bhanuprakash, M Vishnu Datta.

Study on the effectiveness of various types of primary packaging on the physical parameters of telmisartan uncoated tablets.

Research Journal of Pharmacy and Technology, 2012, 5(7), 962-967.

Sivagurunathan Nagarethinam, Anantha Naik Nagappa, Udupa N, Venkata Rao J, 65. Meenashi Vanathi B.

Microbial L-asparaginase and its future prospects.

Asian Journal of Medical Research, 2012, 1(4), 159-168.

Uttara Soumyanarayanan, Varadaraj G Bhat, Sidhartha S Kar, Jesil A Mathew.

Monastrol mimic biginelli dihydropyrimidinone derivatives: synthesis, cytotoxicity screening against HepG2 and Hela cell lines and molecular modeling study.

Organic and Medicinal Chemistry Letters, 2012, 2, 1-11.

Prerna Singh, Shaila Lewis. 67.



Formulation and evaluation of an anti hypertensive in a single dosage form.

International Journal of Drug Formulation and Research, 2012, 3(5), 92-106.

Abhilasha Gupta, S T Bhagawathi, B S Muddukrishna, Jagadish P C, Krishnamurthy 68. Bhat.

Estimation of stavudine, lamivudine and nevirapine by chemometric UV spectroscopic method.

Indian Journal of Pharmaceutical Education and Research, 2012, 46(3), 195-205.

Saleemulla Khan, Chandresh Dwivedi, Vinit Parmar, K K Srinivasan, Annie 69. Shirwaikar.

Methanol extract of dried exudate of *Commiphora mukul* prevents bone resorption in ovariectomized rats.

Pharmaceutical Biology, 2012, 50(10), 1330-1336.

70. Shreedhara C S, Ghosh A, Shenoy G, Shetty R, Kumar V S, Sanghai D B.

Quantification of sennosides by reverse phase high performance liquid chromatography coupled with electro spray ionization tandem mass spectrometry in unani formulations.

International Journal of Pharmacognosy and Phytochemical Research, 2012, 4(4), 224-226.

71. Rajeev K Singla, Piya Paul, Pawan G Nayak, Varadaraj Bhat G.

Investigation of Anthramycin analogs induced cell death in MCF-7 breast cancer cells.

Indo Global Journal of Pharmaceutical Sciences, 2012, 2(4), 383-389.

72. Kalaskar V V, Narayanan K, Subramanyam VM, Rao VJ.

Partial characterisation and therapeutic application of protease from a fungal species.

Indian Drugs, 2012, 49(10), 42-46.

73. Sudhakar Gurpur Koldabadi, Verma Ruchi, Kurba Vijaya Bhaskar, Kumar Lalit.

Heavy metals in environment, living systems and herbal preparation: an overview.

International Research Journal of Pharmacy, 2012, 3(7), 128-130.

74. G K Sudhakar, K Vijaya Bhaskar, Ruchi Verma.

Ionic liquids – useful reaction green solvents for the future.

Journal of Biomedical and Pharmaceutical Research, 2012, 1(2), 7-12.

75. Mylapuram Rama, Gayathri Vishwanathan, Leelavathi D Acharya, R P Attur, P N Reddy, S V Raghavan.

Assessment of drug-drug interactions among renal failure patients of nephrology ward in a South Indian tertiary care hospital.

Indian Journal of Pharmaceutical Sciences, 2012, 74(1), 63-68.



76. U Rajesh Kini, Deepak Kamath, Mahalaxmi Rathnanand.

Formulation and evaluation of carbamazepine extended release tablet by controlled erosion technology.

International Journal of Pharmacy and Pharmaceutical Sciences, 2012, 4(4), 345-351.

77. Sonal Sekhar M, Navya Vyas.

Fetal alcohol spectrum disorders.

Sudanese Journal of Public Health, 2012, 7(1), 12-16.

78. V P Veerapur, K R Prabhakar, B S Thippeswamy, Punit Bansal, K K Srinivasan, M K Unnikrishnan.

Antidiabetic effect of *Ficus racemosa* Linn. stem bark in high-fat diet and low dose streptozotocin-induced type 2 diabetic rats - A mechanistic study.

Food Chemistry, 2012, 132, 186-193.

79. Siby Joseph, Simi George, Sonal Shekhar M, Meera N K.

Antibiotic Resistance – A Global Threat to Human Society.

International Journal of Pharma Research, 2012, 1-3.

80. Gurpur Koldabadi Sudhakar, Ruchi Verma, Vijaya Bhaskar Kurba, Lalit Kumar.

Therapeutic drugs causing thyroid disorders.

Advances in Pure and Applied Chemistry, 2012, 1(3), 54-57.

81. Daniel Dhayabaran, Jeyaseeli Florance, Nandakumar Krishnadas, Indumathi, Muralidhar.

Anticonvulsant activity of alchoholic root extract of Cardiospermum halicacabum.

Brazilian Journal of Pharmacognosy, 2012, 22(3), 623-629.

82. Antiglycation and anticancer activity of some newer synthetic flavones.

Der Pharma Chemica, 2012, 4(4), 1626-1630.

83. M Sonal Sekhar, Shalini Sasidharan, Siby Joseph, Anand Kumar.

Migraine management: How do the adult and paediatric mirgraines differ?

Saudi Pharmaceutical Journal, 2012, 20, 1-7.

84. Manikanta Swamy, Murahari, Jeya Prakash RS, Sidhartha S Kar, Ganesh Kumar T, Vasanth Raj P, Suryanarayana Raju D.

Synthesis, charaterization and *in vitro* anti-cancer activity of quinazolinone derivatives.

Journal of Pharmacy Research, 2012, 5(5), 2743-2746.

85. P V R Chowdary, R Elaiyalvar, Mehta Khushbu C, B S Jayashree.

Novel route for facile synthesis of glycylamides from sydnones and their evaluation of anticancer and antioxidant activities.



International Journal of Pharmaceutical Research and Development (IJPRD), 2012, 4(8), 138-141.

86. Venkatachalam H, Yogendra Nayak, BS Jayashree.

Synthesis, characterization and antioxidant activities of synthetic chalcones and flavones.

Asia Pacific Chemical Biological & Environmental Engineering Society, 2012, 3, 209-213.

87. Sharad Kumar Suthar, Alex Joseph, Sandeep Lohan, Angel Treasa Alex.

Superbug NDM-1: A global health problem.

Der Pharmacia Lettre, 2012, 4(4), 1183-1187.

88. Seekarajapuram Dinakaran Vachala, Keloth Kaitheri Srinivasan.

Synthesis and biological activities of some fused benzopyrimidine-4-ones.

Indian Journal of Heterocyclic Chemistry, 2012, 21, 189-192.

89. Seekarajapuram Dinakaran Vachala, Keloth Kothari Srinivasan, Peralam Yegneswaran Prakash.

Synthesis and evaluation of fused pyrimidine derivatives as anti-inflammatory, antiproliferative and antimicrobial agents.

Medicinal Chemistry Research, 2012, 21, 2998-3005.

90. Vachala Seekarajapuram Dinakaran, Divya Jacob, Jessy Elizabeth Mathew.

Synthesis and biological evaluation of novel pyrimidine-2(1H)-ones/thiones as potent anti-inflammatory and anticancer agents.

Medicinal Chemistry Research, 21(11), 3598-3606.

91. Muhammad Mubeen, Suvarna G Kini.

A review on the design and development of EGFR tyrosine kinase inhibitors in cancer therapy.

International Journal of Therapeutic Applications, 2012, 5, 29-37.

92. Radhika H Datani, Suvarna G Kini, Muhammad Mubeen.

Design, Synthesis and vasorelaxant activity of 5-nitro benzimidazole derivatives.

Journal of Computational Methods in Molecular Design, 2012, 2(4), 149-157.

93. Kalaskar V V, Narayanan K, Subramanyam V M, Rao V J.

Partial characterisation and therapeutic application of protease from a fungal species. Indian Drugs, 2012, 49(10), 42-46.

94. Rajesh R, Sudha V, Varma DM, Sonika S.

Association between medication adherence outcomes and adverse drug reactions to highly active antiretroviral therapy in indian human immunodeficiency virus-positive patients.

Journal of Young Pharmacists, 2012, 4(4), 250-260.



95. Radhakrishnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma. Noorunnisa, Vasudeva Guddattu.

Evaluation of direct cost of adverse drug reactions to highly active antiretroviral therapy in Indian human immunodeficiency virus positive patients.

Clinical Research in HIV AIDS and Prevention, 2012, 1(1) 1-11.

96. Rao J R, Sravanthi L K, Singh T R, Rajan S.

Development and validation of an instrument to assess the perception of pharmacy students on medication review process.

Indian Journal of Pharmacy Practice, 2012, 5(3), 69-74.

97. Madhavan Nampoothiri G, Joyamma Varkey, Noufal C V.

Sub acute malathion induced cardiotoxicity in wistar rats: protective effect of vitamin C.

International Journal of Biological & Pharmaceutical Research, 2012, 3(6), 779-783.

98. Rajeev K Singla, Varadaraj Bhat G, Gautham G Shenoy, BS Jayashree, Suvarna G Kini, Alex Joseph, R S Jeyeprakash, Vachala S D, Jessy E Mathew, N Udupa, John O Igoli.

An efficient synthesis of 1,5-benzodiazepine derivatives catalyzed by potassium aluminium sulfate dodecahydrate & evaluation of their antioxidant activity.

Indo Global Journal of Pharmaceutical Sciences, 2012, 2(3), 279-285.

99. Pritesh Bhat, Vijay Mor, Ravi Muttineni, K S R Pai, P V R Chowdary, Satyanarayana Kota.

Pharmacophore Modeling of delta and MU Receptors and synthesis of enkephalines with D-(Leu)C terminal modification as delta selective agonists.

International Journal of Pharmacy & Technology, 2012, 4(2), 4350-4391.

100. Thiyagu Rajakannan, Surulivel Rajan Vasudeva Guddattu, Asha Kamath, Rajesh Vilakkthala, Padma G Rao and Laxminarayana K Bairy.

Cost of adverse drug reactions in a South Indian tertiary care teaching hospital.

The Journal of Clinical Pharmacology, 2012, 52(4), 559-565.

101. Punit Bansal, Piya Paul, Amit Kunwar, S Jeya Kumar, Pawan G Nayak, K I Priyadarsini, M K Unnikrishnan.

Radioprotection by quercetin-3-O-rutinoside, a flavonoid glycoside – A cellular and mechanistic approach.

Journal of Functional Food, 2012, 4(4), 924-932.

102. M K Unnikrishnan.

Koinophilia revisited: the evolutionary link between mate selection and face recognition.

Current Science, 2012, 102(4), 563-570.

103. Yogendra Nayak, Jayashree BS, Unnikrishnan M K.



Benzopyran-4-one is an ideal pharmacophore for lead optimization of antidiabetic drug discovery.

Research Journal of Pharmacy and Technology, 2012, 5(8), 1025-1033.

104. Punit Bansal, Piya Paul, Jeyesh Mudgal, Pawan G Nayak, Steve Thomas Pannakal, K I Priyadarsini, M K Unnikrishnan.

Antidiabetic, antihyperlipidemic and antioxidant effect of the flavonoid rich fraction of Pilea microphylla (L.) in high fat diet/streptozotocin- induced diabetes in mice.

Experimental and Toxicologic Pathology, 2012, 64(6), 651-658.

105. Jessy Elizabeth Mathew, Alex Joseph, Keloth Srinivasan, Seekarakapuram Vachala Dinakaran, Anand Mantri, Vinit Movaliya.

Effect of ethanol extract of Sphaeranthus indicus on cisplatin-induced nephrotoxicity in rats.

Natural Product Research, 2012, 26(10), 933-938.

106. Kiran B Aithal, Sunil Kumar M R, B Nageshwar Rao, Nayanabhirama Udupa, Satish Bola Sadashiva Rao.

Tumor growth inhibitory effect of juglone and its radiation sensitizing potential: in vivo and in vitro studies.

Integrative Cancer Therapies, 2012, 11(1), 68-80.

107. Reshma J Naik, Manohar V Kulkarni, K Sreedhara Ranganath Pai, Pawan G Nayak.

Click chemistry approach for bis-chromenyl triazole hybrids and their antitubercular activity.

Chemical Biology & Drug Design, 80(4), 516-523.

108. V P Veerapur, K R Prabhakar, B S Thippeswamy, Punit Bansal, K K Srinivasan, M K Unnikrishnan.

Antidiabetic effect of Ficus racemosa Linn. stem bark in high-fat diet and low-dose streptozotocin-induced type 2 diabetic rats: A mechanistic study.

Food Chemistry, 2012, 132(1), 186-193.

109. M Sonal Sekhar, Shalini Sasidharan, Siby Joseph, Anand Kumar.

Migraine management: how do the adult and paediatric migraines differ?

Saudi Pharmaceutical Journal, 2012, 20(1), 1-7.

110. Jesil Mathew Aranjani, Chamallamudi Mallikarjuna Rao, Atulya Manuel, Josyula Venkata Rao, Nayabhirama Udupa, Karteek Hebbar.

Acute and subacute toxicity of chloroform and hexaneextracts of root of Xanthium strumarium.

Comparative Clinical Pathology, 2012, 21(6), 1223-1230.

111. Uday Venkat Mateti, Haritha Nekkanti, Rajesh V, Thiyagu Rajakannan, Surulivelrajan Mallayasamy, Padmakumar Ramachandran.



Pattern of angiotensin-converting enzyme inhibitors induced adverse drug reactions in South Indian Teaching Hospital.

North American Journal of Medical Sciences, 2012, 4(4), 185-189.

112. Prashanth Kumar S, Mandahasan A, Vijay Kumar S, Dhirendra B Sanghai, Shreedhara C S, Manjunath Setty M.

Production of secondary plant metabolite phyllanthin in Phyllanthus niruri Linn. by leaf tissue culture.

Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2012, 3(2), 752-760.

Publications in 2011 (Total Publications 117)

1. A Yashwanth Kumar, K Nandakumar, M Handral, Sahil Talwar, Daniel Dhayabaran.

Hypoglycaemic and anti-diabetic activity of stem bark extracts Erythrina indica in normal and alloxan-induced diabetic rats.

Saudi Pharmaceutical Journal, 2011, 19(1), 35-42.

2. Swapnil J Dengle, Shriram M Pathak, Chandra Mohan, Arumugam Karthik, Prashanth Musmade, Krishnamurthy Bhat, Nayanabhirama Udupa.

Analysis of Midazilom in small volumes of plasma using high performance liquid chromatography and UV detection method: Pharmacokinetics of midazolam in rats.

Asian Journal of Research in Chemistry, 2011, 4(3), 406-414.

3. Surendra Reddy Uppugalla, Mahalxmi Ratnanand, P Shrinivas, Deepak K, Amit Kumar and Sneh Priya.

Self-emulsifying systems of Aceclofenac by extrusion/spheronization: formulation and evolution.

Journal of Chemical and Pharmaceutical Research, 2011, 3(2), 280-289.

4. G B Tippeswami, D Vijaykumar, B S Jayashree, M A Sridhar, J Shashidhara Prasad.

Synthesis and crystal structure of 1-(2-hydroxyphenyl)-3-(5-methylthiophen-2yl)prop-2-en-1-one.

Organic Chemistry: an Indian Journal, 2011, 7(2), 71-74.

5. G B Tippeswami, D Vijaykumar, B S Jayashree, M A Sridhar, J Shashidhara Prasad.

1-(2-Hydroxy-4-methoxyphenyl)-3-(4-methylphenyl)prop-2-en-1-one.

Acta Crystallographica Section E: Structure Reports Online, 2011, 67(Pt 4), o829.

Prashant B Musmade, Kranti B Talole, Praful B Deshpande, Arumugam Karthik, 6. Shriram M Pathak, Sureshwar Pandey, Nayanabhirama Udupa.

Novel liquid chromatographic method for simultaneous estimation of pioglitazone and glimepiride in rat plasma by solid phase extraction: application to preclinical pharmacokinetic studies.

Arzneimittelforschung, 2011, 61(1), 23-31.



7. Yogendra Nayak, Vijay Mor, Unnikrishnan MK.

Research in pharmacy schools of India: A study based on scopus database. Indian Journal of Pharmaceutical Education and Research, 2011, 45(1), 4-10.

8. Rajesh Kumar, G Murugananthan, K Nandakumar, Sahil Talwar.

Isolation of anxiolytic principal from ethanolic root extract of Cardiospermum halicacabum.

Phytomedicine, 2011, 18(2-3), 219-223.

9. D Sreedhar, Manthan D Janodia, Virendra S Ligade, Ajay G Pise, S G Vasantharaju, N Udupa.

Changing scenario of pharmaceutical industry.

Journal of Pharmacy Research, 2011, 4(1), 291-293.

10. S A Manohara Reddy, Jayesh Mudgal, Punit Bansal, S G Vasanthraju, K K Srinivasan, C Mallikarjuna Rao, N Gopalan Kutty.

Antioxidant, anti-inflammatory and anti-hyperglycaemic activities of heterocyclic homoprostanoid derivatives.

Bioorganic and Medicinal Chemistry, 2011, 19(1), 384-392.

11. Raghavendra V Kulkarni, Banappa S Mangond, Srinivas Mutalik, Biswanath Sa.

Interpenetrating polymer network microcapsules of gallan gum and egg albumin entrapped with diltiazem-resin complex for controlled release application.

Carbohydrate Polymers, 2011, 83(2), 1001-1007.

12. Nilesh Desai, Syed Sajjad Hussen, Vasantharaju S G, Karthik A, Udupa N.

Development and validation of stability indicating HPLC method for determination of solifenacin in bulk formulations.

International Journal of Pharmacy and Pharmaceutical Sciences, 2011, 3(1), 70-74.

13. Rekha R Shenoy, Arun T Sudheendra, Pawan G Nayak, Piya Paul, N Gopalan Kutty, C Mallikarjuna Rao.

Normal and delayed wound healing is improved by sesamol, an active constituent of Sesamum indicum (L.) in albino rats.

Journal of Ethnopharmacology, 2011, 133(2), 608-612.

14. Kodangala Subraya Chandrashekar, Santanu Saha, Prasanna Kodangala Subraya.

Analgesic activity of *Phyllanthu lawii* extract in Swiss albino mice.

Pharmaceutical Crops, 2011, 2, 8-10.

15. Richard Lobo, Kirthi Prabhu, Annie Shirwaikar, Arun Shirwaikar, Mamata Ballal.

Formulation and evaluation of antiseptic activity of the hearbal cream containing Curcuma longa and tea tree oil.

Journal of Biologically Active Products from Nature, 2011, 1(1), 27-32.



16. Karthik Arumugam, Mallikarjun Rao Chamallamudi, Ravindranath Reddy Gilibili, Ramesh Mullangi, Subramanian Ganesan, Sidhartha S Kar, Ranjitkumar Averineni, Gopal Shavi, Nayanabhirama Udupa.

Development and validation of a HPLC method for quantification of rivastigmine in rat urin and identification of a novel metabolite in urine by LC-MS/MS.

Biomedical Chromatography, 2011, 25(3), 353-361.

17. Akanksha Mishra, Vasantharaju Surenehalli Gowdra, Karthik Arumugam, Syed Sajjad Hussen, Krishnamoorthy Bhat, Nayanabhirama Udupa.

Stabillity-indicating HPTLC method for analysis of tolterodine in bulk drug.

Journal of Planar Chromatography, 2011, 24(2), 150-153.

18. Nipun Dashora, Vijay Sodde, Jaykumar Bhagat, Kirthi S Prabhu, Richard Lobo.

Antitumor activity of *Dendrophthoe falcata* against Etrlich Ascites Carcinoma in Swiss albino mice.

Pharmaceutical Crops, 2011, 2, 1-7.

19. Sodde Vijay, Dashora Nipun, Prabhu Kirti, Lobo Richard.

Antioxidant activities of methanolic and aqueous extract of *Macrosolen parasiticus* (L.) Dancer.

International Journal of Research in Ayurveda and Pharmacy, 2011, 2(1), 207-210.

20. Sahil Talwar, K Nandakumar, Pawan G Nayak, Punit Bansal, Jayesh Mudgal, Vijay Mor, Chamallamudi Mallikarjuna Rao, Richard Lobo.

Anti-inflammatory activity of Terminalia paniculata bark extract against acute and chronic inflammation in rats.

Journal of Ethnopharmacology, 2011, 134(2), 323-328.

21. Koteshwara K B, Reddy M S, Naha Anup, Nampoothiri Madhavan.

Nanosuspensions: A novel drug delivery approach.

International Journal of Research in Ayurveda and Pharmacy, 2011, 2(1), 162-165.

22. Koteshwara K B, Naha Anup, Nampoothiri Madhavan.

Colon targeted drug delivery system: A review.

International Journal of Research in Ayurveda and Pharmacy, 2011, 2(1), 60-65.

23. K Amit, Mahalaxmi R, P Srinivas, Deepak K.

Enhancement of solubility and dissolution of poorly soluble drug: Koteprofen as a model drug.

Journal of Chemical and Pharmaceutical Research, 2011, 3(1), 268-276.

24. Vijay Sodde, Nipun Dashora, Kirti Prabhu, Bhagat Jaykumar and Richard Lobo.

Histological and physico-chemical studies of Macrosolen parasiticus (L.) Dancer stem - A common parasitic medicinal plant.

Der Pharmacia Sinica, 2011, 2(1), 217-221.



25. Sumalatha K Reddy, Latif D Jamadar, S G Vasantaraju, D Shreedhar.

Biowaivers for immediate release solid oral dosage forms.

Pharma Times, 2011, 43(4), 9-11.

26. V Sodde, N Dashora, K S Prabhu, R Lobo.

Evaluation of anticancer activity of *Macrosolen parasiticus* (L.) cancer on Ehrlich's Ascites Carcinoma treated mice.

International Journal of Cancer Research, 2011, 7(2), 135-143.

27. Nipun Dashora, Vijay Sodde, Kirti S Prabhu, Richard Lobo.

In vitro cytotoxic activity of *Dendrophthoe falcata* on human breast adenocarcinoma cells - MCF-7.

International Journal of Cancer Research, 2011, 7(1), 47-54.

28. Nipun Dashora, Vijay Sodde, Kirti S Prabhu, Richard Lobo.

Antioxidant activities of *Dendrophthoe falcata* (L.f.) Etting.

Pharmaceutical Crops, 2011, 2, 24-27.

29. Kodangala Chandrashekar Subraya, Dananjaya, Kodangala Prasanna Subraya.

Hepatoprotective activity of Bauhinia racemosa Linn.

International Research Journal of Pharmacy, 2011, 2(3), 218-220.

30. Pateriya S, Janodia M D, Deshpande P B, Ligade V S, Talole K B, Kulshrestha T, Kamariya Y, Musmade P B, Udupa N.

Regulatory aspects of pharmaceuticals' exports in Gulf cooperation council countries.

Journal of Young Pharmacists, 2011, 3(2), 155-162.

31. Sharma Pushkar Raj, Lewis Shaila Angela.

Stability of marketed albendazole suspensions and correlation between zeta potential and sedimentation.

International Research Journal of Pharmacy, 2011, 2(3), 154-156.

32. Praful Balavant Deshpande, G Aravind Kumar, Averinieni Ranjith Kumar, Gopal Venkatesh Shavi, Arumugam Karthik, Meka Sreenivasa Reddy, Nayanabhirama Udupa.

Supercritical fluid technology: Concepts and pharmaceutical applications.

PDA Journal of Pharmaceutical Sciences and Technology, 2011, 65(3).

33. Sachin Kumar Singh, K K Srinivasan, K Gowthamarajan, Dhananjay S Singare, Dev Prakash, Narayan Babulal Gaikwad.

Investigation of preparation parameters of nanosuspension by top-down media milling to improve the dissolution of poorly water-soluble glyburide.

European Journal of Pharmaceutics and Biopharmaceutics, 2011, 78(3), 441-446.

34. Mahalaxmi Rathnand, Srinivas Pannala.



Formulation and *in vitro* evaluation of floating pulsatile tablets of nizatidine for chronotherapy of ulcers.

Journal of Pharmacy Research, 2011, 4(5), 1388-1390.

35. Ravi Kumar Nayak, Sachin R Patil, Mrityunjaya B Patil, Mahalaxmi Bhat.

Evaluation of disintergrating properties of *Mangifera indica* gum.

RGUHS Journal of Pharmaceutical Sciences, 2011, 1(1), 4-10.

36. Rajesh Kini, Mahalaxmi Rathnanand, Deepak Kamath.

Exploring the use of Isomalt as the tooth friendly sugar substitute in the formulation of salbutamol sulfate compressed tablet lozenges.

International Journal of PharmTech Research, 2011, 3(3), 1375-1381.

37. Srinivas Pannala, Mahalaxmi Rathnanand.

Preparation and *in vitro* evaluation of Nizatidine immediate release tablets.

International Journal of PharmTech Research, 2011, 3(3), 1688-1692.

38. Srikanth T, Syed Sajjad Hussen, Anand Abha, Vasantharaju SG, Sandeep Gummudavelly.

A comparative view on cosmetic regulations: USA, EU and India.

Der Pharmacia Lettre, 2011, 3(1); 334-341.

39. Rajesh Kini, Mahalaxmi Rathnanand, Deepak Kamath.

Investigating the suitability of Isomalt and liquid glucose as sugar substitute in the formulation of salbutamol sulfate hard candy lozenges.

Journal of Chemical and Pharmaceutical Research, 2011, 3(4), 69-75.

40. PVR Chowdary, Niteen A Narkhede, Nikhil Ravendran.

Synthesis and evaluation of anticancer and antioxidant activities of 1,3,5-trisubstituted pyrazolines and 1,3,4-oxadiazolines.

Journal of Pharmacy Research 2011, 4(7), 2388-2389.

41. Anurag Mehrotra, Ravindranath Shanbhag, Mallikarjuna Rao, Vijay Pal Singh, Jayesh Mudgal.

Ameliorative effect of caffeic acid against inflammatory pain in rodents.

European Journal of Pharmacology, 666(1-3), 2011, 80-86.

42. Mallikarjuna C Rao, Arun T Sudheendra, Pawan G Nayak, Piya Paul, Gopalan Kutty, Rekha R Shenoy.

Effect of dehydrozingerone, a half analog of curcumin on dexamethasone-delayed wound healing in albino rats.

Molecular and Cellular Biochemistry, 2011, 355(1-2), 249-256.

43. Piya Paul, M K Unnikrishnan, A N Nagappa.

Phytochemicals as radioprotective agents-A Review.



Indian Journal of Natural Products and Resources, 2011, 2(2), 137-150.

44. Shreenivas Ramachandrarao Deshpande, Karkala Vasantakumar Pai, Ranganatha Sridhar Pai.

Design and sythesis of certain meloionic sydnonyl styrylketones as potential nonsteroidal anti-infammatory agents.

Arzneimittelforschung, 2011, 61(3), 180-185.

45. Angel Treasa Thomas, Josyula Venkata Rao, Volety Mallikarjuna Subrahmanyam, Hariharapura Raghu Chandrashekhar, Naseer Maliyakkal, Tukaram Kedar Kisan, Alex Joseph, Nayanabhirama Udupa.

In vitro anticancer activity of microbial isolates from diverse habitats.

Brazilian Journal of Pharmaceutical Sciences, 2011, 47(2), 279-287.

- 46. P Vasanth Raj, K Nitesh, Jain Prateek, M Neena Sankhe, J Venkata Rao, C Mallikarjuna Rao, N Udupa. Effect of lecithin on d-galactosamine induced hepatotoxicity through mitochondrial pathway involving Bcl-2 and Bax. Indian Journal of Clinical Biochemistry, 2011, 23(1), 378-384.
- 47. Suthar Sharad Kumar, Alex Joseph, Sandeep Lohan, Abhishek S Mathur, K K Srinivasan, Angel Treasa Thomas.

BVM: A promising agent for future HIV-1 treatment.

Journal of Pharmaceutical Sciences, 2011, 2(1), 7-17.

48. Ravi Kumar Nayak, Narayana Swamy V B, Senthil A, Mahalaxmi R.

Development and in vitro evaluation of sustained released matrix tablets of losartan potassium.

Pharmacologyonline, 2011, 2, 503-530.

49. Ravi Kumar Nayak, Narayana Swamy VB, Senthil A, Thakkar Hardikkumar, Dave Mehul Kumar. Mahalaxmi R.

Formulation and evaluation of fast dissolving tablets of lornoxicam.

Pharmacologyonline, 2011, 2, 278-290.

50. Inder Kumar Makhija, H N Aswatha Ram, C S Shreedhara, Vijay Kumar S, Raviraj Devkar.

In vitro antioxidant studies of Sitopaladi churna, a polyherbal ayurvedic formulation.

Free Radicals and Antioxidants, 2011, 1(2), 37-41.

51. Ravi Kumar Nayak, Narayana Swamy V B, Mahalaxmi R.

Exploitation of *Mangifera indica* gum as novel natural gelling agent in the designing of gel formulations.

Pharmacologyonline, 2011, 2, 522-541.

52. Ravi Kumar Nayak, Narayana Swamy V B, Senthil A, Mahalaxmi R.

An in vitro evaluation of Mangifera indica gum as a potential excipient for oral controlled-release matrix tablet.



Pharmacologyonline, 2011, 2, 360-391.

53. Manthan D Janodia, D Sreedhar, Virendra S Ligade, Ajay G Pise, N Udupa.

Patent pool and life-sciences.

The Pharma Review, 2011, 74-76.

54. Ravi Kumar Nayak, Manjunath B, Narayana Swamy V B, Senthil A, Thakkar Hardikkumar, Dave Mehul Kumar, Mahalaxmi R.

Development and characterization of orodispersible tablets of loratadine using sublimation technique.

Asian Journal of Biochemical and Pharmaceutical Research, 2011, 3(1), 125-143.

55. K K Srinivasan, Amit Goomber, Suthar Sharad Kumar, Angel Treasa Thomas, Alex Joseph.

Phytochemical, antioxidant and antimicrobial study of flowers of *Nyctanthes arbortristis* Linn.

Pharmacologyonline, 2011, 2, 16-21.

56. R K Nayak, B Manjunath, V B Narayana Swamy, A Senthil, H K Thakkar, D M Kumar.

Design and evaluation of sustained release floating tablets of laratadine.

Asian Journal of Biochemical and Pharmaceutical Resarch, 2011, 3(1), 105-124.

57. Santanu Saha, E V S Subrahmanyam, Chandrashekar Kodangala, Shashidhara C Shastry.

Isolation and characterization of triterpenoids and fatty acid ester of triterpenoid from leaves of *Bauhinia variegata*.

Der Pharma Chemica, 2011, 3(4), 28-37.

58. Ravi Kumar Nayak, Narayana Swamy V B, Senthil A, Mehul Dave, Lad Tejas, Mahalaxmi R.

Formulation and evaluation of sustained release matrix tablets of lornoxicam.

Indo-Global Reasearch Library, 2011, 1(3), 92-99.

59. Vasudha Pai, Thangjam Rubee Chanu, Rituparna Chakraborty, Bangar Raju, Richard Lobo, Mamatha Ballal.

Evaulation of the antimicrobial activity of *Punica granatum* peel against the enteric pathogens: An *in vitro* study.

Asian Journal of Plant Science and Research, 2011, 1(2), 57-62.

60. Santanu Saha, E V S Subrahmanyam, K S Chandrashekar, Shashidhara C Shastry.

In vitro study for anti-inflammatory activity of *Bauhinia variengata* L. leaves.

Pharmaceutical Crops, 2011, 2, 70-73.

61. Hitesh Vitthalbai Jagani, Venkata Rao Josyula, Raghu Chandrashekar Hariharapura, Vasanth Raj Palanimuthu, Sagar Shanti Mal Gang.



Nanoformulation of siRNA silencing Bcl-2 gene and its implication in cancer therapy,

Arzneimittelforschung, 2011, 61(10), 577-586.

62. B Kirnal Aithal, M R Sunil Kumar, B Nageshwar Rao, Raghavendra Upadhya, Virendra Prabhu, Gopal Shavi, Karthik Arumugam, Shyam Prasad Sajankila, N Udupa, K Satyamoorthy, B S Sathish Rao.

Evaluation of pharmacokinetic, biodistribution pharmacodynamic, and toxicity profile of free juglone and its sterically stabilized liposomes.

Journal of Pharmaceutical Sciences, 2011, 100(8), 3517-3528.

63. Gopal V Shavi, Usha Y Nayak, M Sreenivasa Reddy, A Karthik, Praful B Deshpande, A Ranjith Kumar, N Udupa.

Sustained released optimized formulation of anastrozole-loaded chitosan microspheres: *in vitro* and *in vivo* evaluation.

Journal of Materials Science, 2011, 22(4), 865-878.

64. Jaykumar Bhagat, Richard Lobo, Vinit Parmar, Mamatha Ballal.

In vitro free radical scavenging potential of Indian habitant Anisochilus carnosus (L.F.) Wall.

Chinese Journal of Natural Medicines, 2011, 9(6), 456-460.

65. K V Sujith, Kalluraya B, Adhikari A, Vijayanarayana K.

Microwave-mediated synthesis of triazolothiadiazoles as anti-inflammatory, analgesic, and anti-oxidant agents.

Medicinal Chemistry Research, 2011, 21(5), 1-9.

66. N Sreedharan, P G M Rao, N R Rau, P R Shankar.

Antihypertensive prescribing preferences in three South Indian hospitals: cost analysis, physicians' perspectives and emerging trends.

International Journal of Clinical Pharmacology and Therapeutics, 2011, 49(4), 277-285.

67. M Sonal Sekhar, C Adheena Mary, P G Anju, Nishna Ameer Hamsa.

Study on durg related hospital admissions in a tertiary care hospital in South India.

Saudi Pharmaceutical Journal 2011, 19(4), 273-278.

68. M Sonal Sekhar, K Samiya Nazeer, J Tintu Sara, R Saraswathi.

Legal aspects of patient counselling: Need of the hour.

International Journal of Research in Pharmacy and Chemistry, 1(2), 218-223.

69. Radhakrishhnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma.

An education intervention to assess knowledge attitude practice of pharmacovigilance on health care professionals in an Indian teritiary care teaching hopsital. International

Journal of PharmaTech Research, 2011, 3(2).



70. Prasanna R Deshpande, Surulivel Rajan, B Lakshmi Sudeepthi, Abdul Nazeer C P.

Patient-reported outcomes: A new era in clinical research.

Perspectives in Clinical Research, 2011, 2(4), 137-144.

71. Uday Venkat M, Rajesh V, Avinash Ladda, Shreekant Sharma, Anantha Naik Nagappa.

Activities of Pharm D students in Indian hospital.

The Pharma Review, March-April 2011, 133-134.

72. Sonal Sekhar, Navya Vyas.

Postpartum thyroiditis and its homoeopathic management.

Inventi Rapid: Pharmacy Practice, 2011, 2, Article ID- Inventi:pp/76/11.

73. Sonal Sekhar M, Anila K N, Sharanya Venugopal, Meenu Ponnechen, Maria C Paul, Lakshmi R.

Patient counselling for anticoagulation patients.

International Journal of Drug Discovery and Technology, 2011, 2(1), 55-61.

74. Sharma S, Rajesh R, Saini N K, Pareek S, Mangal R.

Adiponectin in nash and role of pioglitazone.

Inventi Rapid: Pharmacy Practice, 2011, 2, Article ID- Inventi:pp/92/11.

75. M Sonal Sekhar, C Adheena Mary, Rijo Mary George, Shalini Sasidharan.

Counterfeit medicines: a real threat to the society.

International Journal of Pharmaceutical Sciences and Research, 2011, 2(7), 748-753.

76. Uday Venkat M, Rajesh V, Srikala P, Anantha Naik Nagapppa.

A systematic review on the tools and indicators of medication adherence.

The Pharma Review, Sept-Oct 2011, 137-139.

77. M Uday Venkat, A Nagesh, R Thiyagu, V Rajesh, A Nagappa Naik.

Role of community pharmacists in patient's healthcare - A growing need in chronic diseases.

International Journal of Research in Pharmacy and Chemistry, 2011, 1(3), 470-474.

78. Uday Venkat M, Nagesh A, Thiyagu R, Rajesh V.

Insulin chewing gum: Need of the day for diabetic patients.

International Journal of Pharmaceutical Investigation, 2011, 1(3), 131-134.

79. V P Veerapur, B S Tippeswamy, K R Prabhakar, P Nagakannan, B D Shivasharan, P Bansal, S D Sneha, B Mishra, K I Priyadarshini, M K Unnikrishnan.

Antioxidant and renoprotective activities of *Ficus racemosa* Linn. stem bark: Bioactiavity guided fractionation study.

Biomedicine and Preventive Nutrition, 2011, 1(4), 273-281.



80. Machender Reddy Kandadi, M K Unnikrishnan, Ajaya Kumar Sankara Warrier, Min Du.

Chromium, (D-phenylalanine)3 alleviates high fat-induced insulin resistance and lipid abnormalities.

Journal of Inorganic Biochemistry, 2011, 105(1), 58-62.

81. P Bansal, P Paul, G Shankar, D Munjal, P G Nayak, K I Pridarshini, M K Unnikrishnan.

Flavonoid rich fraction of *Pilea microphylla* (L.) attenuates metabolic abnormalities and improves pancreatic function in c57BL/KsJ-db/db mice.

Biomedicine and Preventive Nutrition, 2011, 1(4), 268-272.

82. Punit Bansal, Piya Paul, Pawan G Nayak, Steve T Pannakal, Jian-hua Zou, Hartmut Laatsch, K I Priyadarshini, M K Unnikrishnan.

Phenolic compounds isolated from *Pilea microphylla* prevent radiation-induced cellular DNA damage.

Acta Pharmaceutica Sinica B, 2011, 1(4), 226-235.

83. Piya Paul, M K Unnikrishnan, A N Nagappa.

Phytochemicals as radioprotective agents: A Review.

Indian Journal of Natural Products and Resources, 2011, 2(2), 137-150.

84. Yogendra Nayak, Vijay Mor, Unnikrishnan M K.

Research in pharmacy schools of India: A study based on scopus database.

Indian Journal of Pharmaceutical Education and Research, 2011, 45(1), 1-7.

85. Ebin J K, Jintu J, Anitha S, Navya Vyas, Sonal Sekhar.

Pharmaceutical care and antibiotic resistance are at cross roads.

Inventi Impact: Pharmacy Practice, 2011, Article ID- Inventi:ppp/123/11.

86. Tinsy Thomas, Leelavathi D Acharya, Venkatraghavan S, Sureshwar Pandey, Rama Mylapuram.

An observational study to evaluate the factors which influence the dispensing errors in the hospital pharmacy of a tertiary care hospital.

Journal of Clinical and Diagnostic Research, 2011, 5(6), 1214-1218.

87. Mateti U V, Rajakannan T, Nekkanti H, Rjesh V, Mallayswamy SR, Ramachandran P.

Drug-drug interactions in hospitalized cardiac patients.

Journal of Young Pharmacists, 2011, 3(4), 329-333.

88. Prabhakara Prabhu, Ravi Malli, Marina Koland, K Vijayanarayana, Ullas D Souza, Harish N M, C S Shastry, R N Charyulu.

Formulation and evaluation of fast dissolving films of levocitirizine di hydrochloride.



International Journal of Pharmaceutical Investigation, 2011, 1(2), 99-104.

89. Ganga Raju M, Jennnifer Fernandes, Vijayanarayana K.

Evaluation of antiepileptic activity of the alcoholic extract of Adhatoda vasica leaves in rats.

Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2011, 2(3), 5-10.

90. Marina Koland, Narayana Charyulu R, Vijayanarayana K, Prabhakara Prabhu.

In vitro and in vivo evaluation of chitosan buccal films of ondansetron hydrochloride.

International Journal of Pharmaceutical Investigation, 2011, 1(3), 164-171.

91. Om Prakash, Gopal Venkatesh Shave, Usha Yogendra Nayak, Karthik Arumugam, Ranjith Kumar Averineni, Sreenivasa Reddy Meka and Pandey Sureshwar.

Controlled release chitosan microspheres of mirtazapin: in vitro and in vivo Evaluation.

Archives of Pharmacal Research, 2011, 34(11), 1919-1929.

92. Srinivas Mutalik, Usha Y Nayak, Rohit Kalra, Aravind Kumar, Raghavendra V Kulkarni, Harendra S Parekh.

Sonophoresis-mediated permeation and retention of peptide dendrimers across human epidermis.

Skin Research and Technology, 2011, 18(1), 1-7.

93. Jitender K Malik, Malleshappa N Noolvi, Fakkirappa V Manvi, B K Nanjwade, Harun M Patel, Manjula S N, Mallikarjuna Rao C, Ashutosh Barve.

Synthesis and preliminary in-vitro cytotoxic activity of novel substituted diarylimidazo-[2,1,b]-benzothiazole derivatives.

Letters in Drug Design and Discovery, 2011, 8(8), 717-724.

94. Vamshi Krishna T, Ganesh M, Madhusudan Rao Y.

Formulation and evaluation of extended release non-invasive drug delivery system for insulin.

Research Journal Pharmacy and Technology, Sep 2011, 4(9), 1418-1421.

95. Arumugam K, Chamallamudi M R, Mallayasamy S R, Mullangi R, Ganesan S, Jamadar L, Ranjithkumar A, Udupa N.

High Performance Liquid Chromatographic Fluorescene Detection Method for the quantification of rivastigmine in rat plasma and brain: application to preclinical pharmacokinetic studies in rats.

Journal of Young Pharmacists, 2011, 3(4), 315-321.

96. Sneh Priya, Mahalaxmi Rathnanand, Udupa Nayanabhirama, Ravikiran Ongole, Sumanth K N, Ujjwal Joshi.

Preparation and evaluation of buccal mucoadhesive patch of betamethasone sodium phosphate for the treatment of oral submucous fibrosis.



Journal of Chemical and Pharmaceutical Research, 2011, 3(6), 56-65.

97. S Mohideen, T Satyanarayana, P Suresh Kuumar, S Navneetha Krishnan, R Mahalaxmi, S Pavani.

Development and evaluation of two layere tablet of glimepiride and metformin hydrochloride for the treatment of hypergylcemia.

International Journal of Biopharmaceutics, 2011, 2(1), 31-35.

98. Thangjam Rubee Chanu, Vasudha Pai, Rituparna Chakraborty, Bangar Raju, Richard Lobo, Mamatha Ballal.

Screening for antidiarrheal activity of *Psidium guajava*: A possible alternative in the treatment against diarrhea causing enteric pathogens.

Journal of Chemical and Pharmaceutical Research, 2011, 3(6), 961-967.

99. Thiyagu Rajakannan, Surulivelrajan Mallayasamy, Vasudeva Guddattu, Asha Kamath, Rajesh Vilakkthala, Padma G M Rao, Laxminarayana K Bairy.

Cost of adverse drug reactions in a South Indian tertiary care teaching hospital.

Journal of Clinical Pharmacology, 52(4), 559-565.

100. Nidambur Vasudev Ballal, Sudheer Moorkoth, Kundabala Mala, Kadengodlu Seetharama Bhat, Syed Sajjad Hussen, Shriram Pathak.

Evaluation of chemical interactions of maleic acid with sodium hypochloreite and chlorhexidine gluconate.

Journal of Endodontics, 2011, 37(10), 1402-1405.

101. Sachin Shah, S G Vasantharaju, Arumugam Karthik, Muddukrishna B S.

Development and validation of stability-indicating assay method for lacosamide by RP-HPLC.

Elixir International Journal - Pharmacy, 2011, 38, 4174-4177.

102. Richard Lobo, Vijay Sodde, Nipun Dashora, Nilesh Gupta, Kirti Prabhu.

Quantification of flavonoid and phenol content from Macrosolen parasiticus (L.) Danser.

Journal of Natural Product and Plant Resources, 2011, 1(4) 96-99.

103. Ravi Kumar Nayak, Narayana Swamy V B, Senthil A, Jismon Jose, Mahin M, Mahalaxmi R.

Formulation and evaluation of melt-in-mouth tablets of rizatriptan benzoate.

RGUHS Journal of Pharmaceutical Sciences, 2011, 1(3), 186-192.

104. K B Koteshwara, Atula Das, Anup Naha, M Sreenivas Reddy, Preranan Singh.

Chronotherapeutic methodology of naproxen delivery for rheumatoid arthritis.

International Journal of Drug Formulation and Research, 2011, 2(6), 212-226.

105. Sonal Sekhar M, Venkatraghavan S, Rajesh V.

Pharmaceutical care: Indian perspective.



Indian Journal of Hospital Pharmacy, 2011, 48, 117-119.

106. Annie Shirwaikar, Bharatkumar Patel, Yogesh Kamariya, Vinit Parmar, Saleemulla Khan.

In vitro free radical scavenging potential of defatted ethanolic extract of the seeds of Lepidium sativum Linn.

Chinese Journal of Natural Medicines, 2011, 9(6), 435-440.

107. Sumit Kumar Jain, S G Vasantharaju, Muddukrishna B S.

Eslicarbazepine acetate: a new promising antiepileptic agent.

Elixir International Journal - Pharmacy, 2011, 41, 5736-5740.

108. K B Koteshwara, Sowmya C Thoppil, Anup Naha.

Design and development of multiparticulate drug delivery of metronizole for targeted delivery to colon.

International Journal of Pharmacy & Technology, 2011, 3(4), 3580-3589.

109. Abha Anand, Syed Sajjad Hussen, Srikant T, S G Vasantharaju, Sandeep Gumudavelly.

Need of bioavailability studies in paediatric dosage form.

IJPI's Journal of Pharmaceutics and Cosmetology, 2011, 1(5), 39-52.

110. Karthikeyan Kandasamy, Vasantharaju Surenahalli Gowdra, Hariprabhu Nammalvar, Arul Kumaran Kottur S, Govindarajan.

Bioanalytical method development, validation and quantification of flupirtine maleate in rat plasma by liquid chromatography tandem mass spectometry.

Arzneimittelforschung, 2011, 61(12), 1-7.

111. Shreedhara C S, Aswatha Ram H N, Zanwar Sachin B, Gajera Falguni P, Zanwar Aarti S.

Free radical scavenging activity and total phenolic content of Ziziphus mauritiana Lam.

Pharmacologyonline, 2011, 3, 868-879.

112. Annie Shirwaikar, Vinit Parmar, Jay Bhagat, Saleemulla Khan.

Identification and estimation of stevioside in the commercial samples of Stevia leaf and powder by HPTLC and HPLC.

International Journal of Pharmacy & Life Sciences, 2011, 2(9), 1050-1058.

113. Virendra K Patel, Leelavathi D Acharya, Thiyagu Rajakannan, Mallayasamy Surulivel Rajan, Vasudeva Guddattu, Ramachandran Padmakumar.

Potential drug interactions in patients admitted to cardiology wards of a South Indian teaching hospital.

Australian Medical Journal, 2011, 4(1), 9-14.

114. D Vijay Kumar, G B Thippeswamy, B S Jayashree, M A Sridhar.



1-(2-Hydroxy-5-methylphenyl)-3-(2-methylphenyl)prop-2-en-1-one.

Acta Crystallographica Section E: Structure Reports Online, 2011, 67(Pt 6), o1492.

115. Sachin Shah, S G Vasantharaju, Arumugam Karthik, Muddukrishna B S.

Development and validation of stability-indicating assay method for lacosamide by RP-HPLC.

Elixir International Journal - Pharmacy, 2011, 38, 4174-4177.

116. Rudragoud S Policegoudra, Raghu H Chandrashekhar, Somaradhya, M Aradhya, Lokendra Singh.

Cytotoxicity, platelet aggregation inhibitory and antioxidant activity of Curcuma amada Roxb. Extracts.

Food Technology and Biotechnology, 2011, 49(2), 162-168.

117. Swapnil J Dengle, Shriram M Pathak, Chandra Mohan, Arumugam Karthik, Prashant Musmade, Krishnamurthy Bhat, Nayanabhirama Udupa.

Analysis of midazolam in small volumes of plasma using high performance liquid chromatography and UV-detection method: Pharmacokinetics of midazolam in rats.

Asian Journal of Research in Chemistry, 2011, 4(3), 406-414.

Publications 2010 (Total Publications 140)

1. B S Jayashree, J C Thejaswini, Yogendra Nayak, D Vijay Kumar.

Synthesis of novel flavone acyl esters and correlation of log P value with antioxidant and antimicrobial activity.

Asian Journal of Chemistry, 2010, 22(2), 1055-1056.

2. Girish R Bankar, Gopalan Kutty Nampurath, Pawan G Nayak, Shoumyo Bhattacharya.

A possible correlation between the correction of endothelial dysfunction and normalization of high blood pressure levels by 1,3,4-oxadiazole derivative, an L-type Ca²⁺ channel blocker in deoxycorticosterone acetate and N^G-nitro-l-arginine hypertensive rats.

Chemico-Biological Interactions, 2010, 183(2), 137-331.

3. Shevetank Bhatt, Dilip K Pandey, K S R Pai.

> Evaluation of potato tuber carboxypeptidase inhibitor with standard anti-thrombotic drugs in various thrombosis models.

International Journal of Pharma and Bio Sciences, 2010, 1(1), 1-9.

Machender R Kandadi, Prabhakar K Rajanna, Mazhuvancherry K Unnikrishnan, Sai 4. P Boddu, Yinan Hua, Ji Li, Min Du, Jun Ren, Nair Sreejayan.

2-(3,4-dihydro-2H-pyrrolium-1-yl)-3oxoindan-1-olate (DHPO), a novel synthetic small molecule that alleviates insulin resistance and lipid abnormalities.



Biochemical Pharmacology, 2010, 79(4), 623-631.

5. G Arvind Kumar, Ranjith Kumar Averineni, Praful B Deshpande, Gopal Shavi, Meka Sreenivasa Reddy, Udupa Nayanabhirama.

Novel delivery systems: A microemulsion based approach.

Pharma Times, 2010, 42(4), 69-73.

6. Jaspreet Kaur, K K Srinivasan, Alex Joseph, Abhishek Gupta, Yogendra Singh, Kona S Sriniva, Garima Jain.

Development and validation of stability indicating method for the quantitative determination of venlafaxine hydrochloride in extended release formulation using high performance liquid chromatography.

Journal of Pharmacy and Bioallied Sciences, 2010, 2(1), 22-26.

7. Gopal V Shavi, Rajendra C Doijad, Praful B Deshpande, Manvi, F V, Sreenivasa Redy M, Udupa N, Omprakash R, Dhirendra K.

Erythrocytes as carrier for prednisolone: *In vitro* and *in vivo* evaluation.

Pakistan Journal of Pharmaceutical Sciences, 2010, 23(2), 194-200.

8. Shriram M Pathak, N Udupa.

> Pre-clinical evidence of enhanced oral bioavailability of the P-glycoprotein substrate talinolol in combination with morin.

Biopharmaceutics and Drug Disposition, 2010, 31(2-3), 202-214.

9. B S Jayashree, Seeja Thomas, Yogendra Nayak.

> Design and synthesis of 2-quinolones as antioxidants and antimicrobials: a rational approach.

Medicinal Chemistry Research, 2010, 19(2), 193-209.

10. Prashant B Musmade, Praful B Deshpande, Swapnil J Dengle, Kranti B Talole, Shriram M Pathak, Adiga M N S, Krishnamurthy Bhat, Nayanabhirama Udupa, Laxminarayana Bairy.

High performance liquid chromatographic method for determination of clobetasol in rat plasma and its application to skin penetration.

Journal of Bioanalysis and Biomedicine, 2010, 2(1), 001-007.

11. Sunil Kymar Madala Rayabandla, Kiran Aithal, Aravind Anandam, Gopal Shavi, Udupa Nayanabhirama, Karthik Arumugam, Prashant Musmade, Krishnamoorthy Bhat, Satish Rao Bola Sadashiya.

Preparation, in vitro characterization, pharmacokinetic, and pharmacodynamic evaluation of chitosan-based plumbagin microspheres in mice bearing B16F1 melanoma.

Drug Delivery, 2010, 17(3), 103-113.

12. Latif D Jamadar, Krishnamurthy Bhat, Yogesh Shirode, Prashant B Musmade, Syed Sajjad Hussen, N Udupa.



Comparison of USA and Japanese regulation for in vitro dissolution and in vivo bioequivalence studies.

Journal of Bioanalysis and Biomedicine, 2010, 2(1), 17-22.

13. R Nandeesh, B S Ashok Kumar, K Lakshman, V B Narayan Swamy, Saleemulla Khan, S Ganapathy.

Evaluation of wound healing activity of Buxus wallichiana Baill.

Asian Journal of Pharmacodynamics and Pharmacokinetics, 2010, 10(1), 59-63.

14. Annie Shirwaikar, Saleemulla Khan, Yogesh H Kamariya, Bharatkumar D Patel, Falguni P Gajera.

Medicinal plants for the management of post menopausal osteoporosis: A review.

The Open Bone Journal, 2010, 2, 1-13.

15. Shivanand Pandey, Viral Devmurari, Mahalaxmi Rathnanad.

Biological evaluation of free radical scavenging activity of Albizia lebbeck methanolic extract in arthritic rats.

Annals of Biological Research, 2010, 1(1), 116-123.

16. Shivanand Pandey, Viral Devmurari, Shukla Paridhi, Mahalaxmi Rathnanad.

Development and in vitro evaluation of propranolol hydrochloride based gastroretentive floating tablet.

Der Pharmacia Lettre, 2010, 2(1), 75-86.

17. Suresh Kumar S, Latif D Jamadar, Krishnamurthy Bhat, Prashant B Musmade, S G Vasanthraju, N Udupa.

Analytical method development and validation for aspirin.

International Journal of ChemTech Research, 2010, 2(1), 389-399.

18. Virendra S Ligade, D Sreedhar, Manthan J, Ajay P, N Udupa.

Importance of marketing skills for pharmaceutical marketing professionals.

The Pharma Review, Jan-Feb 2010, 47-49.

19. Gopal Venkatesh Shavi, Averineni Ranjith Kumar, Yogendra Nayak Usha, Karthik Armugam, Om Prakash Ranjan, Kishore Ginjupalli, Sureshwar Pandey, Nayanabhirama Udupa.

Enhanced dissolution and bioavailability of gliclazide using solid dispersion techniques.

International Journal of Drug Delivery, 2010, 2(1), 49-57.

20. Shriram M Pathak, Prashant B Musmade, Krishnamurthy M Bhat, Nayanabhirama Udupa.

Validated HPLC method for quantitative determination of talinolol in rat plasma and application to preclinical pharmacokinetic study.

Bioanalysis, 2010, 2(1), 95-104.



21. Syed Sajjad Hussen, Vasanthraju, Krishnamurthy Bhat, Kishore Sam, N Udupa.

Recent trends and future perspectives in Indian health care-an overview.

International Journal of Current Research and Review, 2010, 2(1), 32-39.

22. Arun M Isloor, Balakrishna Kalluraya, K Sridhar Pai.

Synthesis, characterization and biological activities of some new benzo[b]thiophene derivatives.

European Journal of Medicinal Chemistry, 2010, 45(2), 825-830.

23. Ravi Kumar, Sachin R Patil, M B Patil, Mahesh S Paschapur, Mahalaxmi R.

Isolation and evaluation of the emulsifying properties of tamarind seed polysaccharide on castor oil emulsion.

Der Pharmacia Lettre, 2010, 2(1), 518-527.

24. Ravi Kumar, Sachin R Patil, M B Patil, Mahesh Paschpur, Mahalaxmi R.

Design and characterization of aceclofenac mouth dissolving tablets by effervescent formulation approach.

Der Pharmacia Lettre, 2010, 2(1), 220-236.

25. Ravi Kumar, Sachin R Patil, M B Patil, Mahesh Paschpur, Mahalaxmi R.

Formulation and evaluation of controlled release diltiazem hydrochloride buccoadhesive tablets.

Der Pharmacia Lettre, 2010, 2(1), 48-60.

26. Neeraj K, Sriwastava, C S Shreedhara, H N Aswatha Ram.

Standardization of Ajmodadi churna, a polyherbal formulation.

Pharmacognosy Research, 2010, 2(2), 98-101.

27. Richard Lobo, Kirti S Prabhu, Arun Shirwaikar, Mamatha Ballal, C Balachandran, Annie Shirwaikar.

A HPTLC densitometric method for the determination of aloeverose in *Aloe vera* gel.

Fitoterapia, 2010, 81(4), 231-233.

28. Nipun Dashora, Richa Agrawal, Vijay Sodde, Kirti S Prabhu, Richard Lobo.

Pharmacognostical evaluation of *Dendrophthoe falcata*.

Journal of Pharmacy Research 2010, 3(5), 971-974.

29. B S Jayashree, Afrose Alam, D Vijay Kumar, Yogendra Nayak.

Antioxidant and antibacterial activity of new 3-methylflavones.

Indian Journal of Heterocyclic Chemsitry, 2010, 19(3), 237-240.

30. Vachala Seekarajapuram Dinakaran, Paneerselvam Perumal Srinivasan Keloth Kaitheri.

Synthesis and anticonvulsant activity of 2-substituted-1,3-oxazolidines.



Journal of Pharmacy Reseach, 2010, 3(6) 1308-1311.

31. Lakshmana Prabu S, Dinesh Kumar C, Sivagurunathan N, Vasantharaju S G, Jacob

Development and validation of RP-HPLC method for the estimation of granisetron hydrochloride in bulk and tablets.

Indian Drugs, 2010, 47(1), 66-69.

32. Dinesh Kumar B, Dhanaraj S A, Santhi K, Vijayan P, Raghu Chandrasekhar.

Single dose vaccine delivery system of tetanus toxoid formulation based on chitosan microspheres.

International Journal of Advances in Pharmaceutical Sciences, 2010, 1(1), 42-49.

33. Jagadish P C, Raghu Chandrashekar H, Vinod Kumar S, Latha K P.

Potent selective cytotoxic activity of *Kaempferis galanga* L. rhizome against cancer cell cultures.

International Journal of Pharma and Bio Sciences, 2010, 1(2), 1-5.

34. P V Raj, K Nitesh, H R Chandrashekhar, C Mallikarjun Rao, J Venkata Rao, N Udupa.

Effect of lecithin and silymarin on D-galactosamine induced toxicity in isolated hepatocytes and rats.

Indian Journal of Clinical Biochemistry, 2010, 25(2), 169-174.

35. Vasanth P Raj, Raghu H Chandrasekhar, Vijayan P, Dhanaraj SA, Mallikarjuna C Rao, Venkata J Rao, K Nitesh.

In vitro and in vivo hepatoprotective effects of the total alkaloid fraction of Hygrophila auriculata leaves.

Indian Journal of Pharmacology, 2010, 42(2), 98-103.

36. P Kamath, V M. Subrahmanyam, J Venkata Rao, P Vasanth Raj.

Optimization of cultural conditions for protease production by a fungal species.

Indian Journal of Pharmaceutical Sciences, 2010, 72(2), 161-166.

37. Usha Y N, Angel T T, Udupa N.

Nanotechnology: Perspectives on solubility/bioavailability enhancement.

The Pharma Review, May-Jun 2010, 59-66.

38. V Sathya Srilakshmi, P Vijayan, P Vasanth Raj, S A Dhanaraj, H Raghu Chandrashekhar.

Hepatoprotective properties of Caesalpinia sappan Linn. heartwood on carbon tetrachloride induced toxicity.

Indian Journal of Experimental Biology, 2010, 48(9), 905-910.

39. P Vasanth Raj, K Nitesh, S Sagar Gang, V Hitesh Jagani, H Raghu Chandrashekhar, J Venkata Rao, C Mallikarjuna Rao, N Udupa.



Protective role of catechin on D-galactosamine induced hepatotoxicity through a p53 dependent pathway.

Indian Journal of Clinical Biochemistry, 2010, 25(4), 349-356.

40. G Murugananthan, Prakash Deep, Rajesh Kumar, Nandakumar K.

Preparation of indegenous herbal formulation for antidiabetic activity.

Pharmacologyonline, 2010, 2, 275-282, 2010.

41. Sumi Sebastian, V M Subrahmanyam, J Venkata Rao, C S Shreedhara, B V Kamath.

Potentiation of antimicrobial activity of roxithromycin – An *In vitro* study.

Pharmacologyonline, 2010, 3, 586-592.

42. Alex Joseph, Aravinda Pai, K K Srinivasan, Tukaram Kedar, Angel Treasa Thomas, Jessy E M, Rajeev K Singla.

Synthesis and anticancer activity of some novel 3-(1,3,4-thiadiazol-2-yl)-quinazolin-4-(3H)-ones.

Orbital - The Electronic Journal of Chemistry, 2010, 2(2), 158-167.

43. Jeril John, A Jesil Mathew, C S Shreedhara, M Manjunath Setty.

In vitro anticancer study of Clerodendron paniculatum.

Pharmacologyonline, 2010, 3, 384-391.

44. K K Srinivasan, Amit Goomber, Suthar Sharad Kumar, Angel Treasa Thomas, Alex Joseph.

Synthesis and biological evaluation of 2-phenyl chromen-4-ones for their antioxidant and antimicrobial activity.

Pharmacologyonline, 2010, 3, 31-37.

45. Raghavendra V Kulkarni, V Sreedhar, Srinivas Mutalik, C Mallikarjun Setty, Biswanath Sa.

Interpenetrating network hydrogel membranes of sodium alginate and poly(vinyl alcohol) for controlled release of prazosin hydrochloride through skin.

International Journal of Biological Macromolecules, 2010, 47(4), 520-527.

46. Mahesh Kumar Teli, Srinivas Mutalik, Rajanikant G K.

Nanotechnology and nanomedicine: Going small means aiming big.

Current Pharmaceutical Design, 2010, 16(16), 1877-1881.

47. G Pitchaiah, G L Viswanatha, R Srinath, K Nandakumar, D Dayabaran, E J Florance.

Anxiolytic and anticonvulsant activity of aqueous extract of stem bark of Erythrina variegata in rodents.

International Journal of PharmTech Research, 2010, 2(1), 40-48.

48. Devappa S Lamani, K R Venugopala Reddy, H S Bhojya Naik, K S R Pai, Ravishankar Kumar, Fasiulla, H R Prakash Naik, L R Naik.



Synthesis, antitumor, and DNA binding behavior of novel 4-(2-hydroxyquinolin-3yl)-6-phenyl-5, 6 dihydropyrimidin derivatives in aqueous medium.

Nucleosides, Nucleotides and Nucleic Acids, 2010, 29(8), 591-605.

49. Gopal V Shavi, Praful B Deshpande, Usha Y Nayak, G Kumar Aravind, A Kumar Ranjith, M Sreenivasa Reddy, N Udupa, K B Koteshwara Rao.

Applications of nanotechnology in health care: perspectives and opportunities.

International Journal of Green Nanotechnology: Biomedicine, 2010, 2(2), B67-B81.

50. Vamshi Krishna T, Madhusudan Rao Y.

Formulation and evaluation nasal insulin gel.

International Journal of Pharmacy and Pharmaceutical Sciences, 2010, 2(3), 161-164.

51. Praful Balavant Deshpande, Panchaxari Dandagi, Nayanabhirama Udupa, Shavi Gopal, Samata S Jain, Surenalli G Vasanth.

Controlled release polymeric occular delivery of acyclovir.

Pharmaceutical Development and Technology, 2010, 15(4), 369-378.

52. Pandey Shivanand, R Mahalaxmi.

Identification and determination of protocatechuic acid present in greater cardamom fruit extracts by HPLC technique.

International Journal of Pharmaceutical Sciences: Review and Research, 2010, 1(1), 27-32.

53. Shivanand Pandey, Mahalaxmi Rathanand.

Development and validation of stability indicating reversed-phase HPLC method for the determination of ezetimibe in pharmaceutical dosage forms.

International Journal of Pharmaceutical Sciences: Review and Research, 2010, 1(1), 53-57.

54. Rashmi Boppana, Raghavendra V Kulkarni, Srinivas Mutalik, C Mallikarjuna Setty, Biswanth Sa.

Interpenetrating network hydrogel beads of carboxymethylcellulose and egg albumin for controlled release of lipid lowering drug.

Journal of Microencapsulation, 2010, 27(4), 337-334.

55. Saleemulla K, Ruchi R, AKS Rawat, Annie S.

A report on the quality control parameters of aerial parts of *Pluchea lanceolata* (DC.) Oilv. & Hiern, Asteraceae.

Brazilian Journal of Pharmacognosy, 2010, 20(4), 563-567.

56. Saleemulla K, Inder K M, Devang K, Sandhya R.

Development and standardization of turmeric cream by HPTLC.

International Journal of Biomedical and Advance Research, 2010, 1(4) 109-116.



- 57. Rudrappa N, B S Ashok Kumar, K Lakshman, K P Manohar, Saleem K, S Ganapathy. Histologic and physico-chemical evaluation of *Buxus wallichiana* Baill. Botanic Serbica, 2010, 34(1), 51-56.
- 58. Bagepalli Srinivas Ashok Kumar, Vontoor Byrappa Narayana Swamy, Peresandra Avalakondarayappa Arun Kumar, Saleemulla Khan, P A Arun Kumar.

Evaluation of antioxidant and antimicrobial activities of Chitrakadi vati, a ayurvedic formulation.

International Journal of Food Safety, 2010, 12, 153-159.

59. Neeraj K S, C S Sreedhara, H N Aswatram.

In-vitro free radical scavenging activity of Ajmodadi churna - A polyherbal formulation.

Journal of Pharmacy Research 2010, 3(7), 1467-1470.

60. H N Aswatha Ram, Prachiti Lachake, Ujjwal Kaushik, C S Shreedhara.

Formulation and evaluation of floating tablets of liquorice extract.

Pharmacognosy Research, 2010, 2(5), 304-308.

61. Chandrashekar K S, Prassana K S, Santanu S.

Phytochemical studies of aerial parts of the plant Leucas lavandulaefolia.

Der Pharma Chemica, 2010, 2(5), 434-437.

62. Aswatha Ram H N, Annie Shirwaikar, Arun Shirwaikar.

Accelerated stability studies of floating tablets of Vasaka (*Justicia adhatoda*) extracts.

Aryavaidyan, 2010, 23(4), 231-233.

63. Ujjwal Kaushik, Prachiti Lachake, Shreedhara C S, Aswatha Ram H N.

Microscopic approach in standardisation of Avipattikara churna.

Aryavaidyan, 2010, 23(4), 216-220.

64. Suresh Kumar S, Latif Jamadar, Krishnamurthy Bhat, Jagdish P C, Sriram Pathak, N Udupa.

Analytical method development and validation for dipyridamole.

Journal of Pharmaceutical Research and Health Care, 2010, 2(4), 333-338.

65. Padmavathi P Prabhu, Aravind Pai, Padmashree, Ramakrishna Shabaraya.

Analgesic and anti-inflamatory activity studies of some new aryl 4-thiazolidinones in experimental mice.

Pharmacologyonline, 2010, 1, 1132-1139.

66. Vikash K Verma, Rajeev K Singla, Varadaraj Bhat G.

Meditation: A potential stress buster.

Pharmacologyonline, 2010, 1, 435-438.



67. Pooja Gupta, Manthan D Janodia, Puralea C Jagadish, Nayanabhirama Udupa.

Medical device vigilance systems: India, US, UK and Australia.

Medical Devices (Auckland, N.Z.), 2010, 3, 67-79.

68. Nagappa A N, Kishore G Sam, Zarrin F, Saurabh H, Partha G, Pathak K.

Evaluation of web sites for quality and contents of asthma patient education.

Journal of Young Pharmacists, 2009, 1(3), 278-282.

69. Venkatraghavan S, Rama M, Leelavathi D A.

Performance of a drug information centre in a South Indian teaching hospital.

International Journal of Pharm Tech Research, 2010, 2(1), 390-403.

70. R Rajesh, Sudha Vidyasagar, Patel Naren, Manju Verghese.

Safety aspects of antiretroviral therapy for management of HIV Infection.

Journal of Basic and Clinical Pharmacy, 2010, 1(1), 47-53.

71. Patel D S, Mehta H R, Ramani A K, Labana P G, Shah S K, Srivstava A K, Pathak Y K, Rajesh V, Deshpande S. Liraglutide.

A molecule for treatment of type II diabetes mellitus.

Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2010, 1(2), 193-201.

72. Rajesh R, Patel Naren, Sudha Vidyasagar, Unnikrishnan, Sureshwar Pandey, Manju Verghese, Sagar Gang.

Sodium glucose co transporter 2 (SGLT2) inhibitors: A new sword for the treatment of type 2 diabetes mellitus.

International Journal of Pharma Sciences and Research, 2010, 1(2), 139-147.

73. Ramesh C, Nandakumar Krishnadas, Rajesh Radhakrishnan, Srinath Rangappa, Gollapalle Lakshminarayana, Shastry Viswanatha, Rajesh D, Murugananthan Gopal, Sahil Talwar.

Anti-urolithiatic activity of heart wood extract of *Cedrus deodara* in rats.

Journal of Complementary and Integrative Medicine, 2010, 7(1), Art11.

74. Shanmugam S, Acharya L D, Mallayasamy S R, Khan S A, Rajakannanan T.

Study of tissue and the plasma concentrations of cefotaxime to assess its suitability for prophylaxis in cholecystectomy.

Journal of Clinical and Diagnostic Research, 2010, 4(3), 2410-2415.

75. Jeetu Gangil, Prabha Adhikari, Kishore G Sam, Girish T, Sanal T S.

Evaluation of azithromycin as add on therapy in community acquired pneumonia patients: a pilot clinical study.

Journal of Current Pharmaceutical Research, 2010, 2(1), 15-20.

76. V P Veerapur, K R Prabhakar, B S Tippeswamy, Punit Bansal, K K Srinivasan, M K Unnikrishnan.



Antidiabetic activity of Dodonaea viscosa (L) Lacq. aerial parts in fructose-fed insulin resistant rats: A mechanism based study.

Indian Journal of Experimental Biology, 2010, 48(8), 800-810.

77. Girish Thunga, Kishore Gnana Sam, Kanav Khera, Sureshwar Pandey, Sudha Vidya Sagar.

Evaluation of incidence, clinical characteristics and management in orgnophosphorus poisoning patients in a tertiary care hospital.

Journal of Toxicology and Environmental Health Sciences, 2010, 2(5), 73-76.

78. Vijayanarayana K, Padma G M Rao, Nimmy Chacko, Kishore G S, Udupa N.

Aphrodisiac activity of Geyenaphro: A poly herbal formulation in rats.

Pharmacologyonline, 2010, 1, 607-613.

79. Manthan D Janodia, N Udupa.

Indian medical plants: Patenting and ethical issues.

The Pharma Review, Mar-Apr 2010, 93-99.

80. Hemal A Bhuva, Suvarna G Kini.

Synthesis, anticancer activity and docking of some substituted benzothiazoles as tyrosine kinase inhibitors.

Journal of Molecular Graphics and Modelling, 2010, 29(1), 32-37.

81. K Rajendran, Kishore Gan Sam, K K Srinivasan, Annie Shirwaiker.

Short term antdiabetic studies on alcoholic root extract of Pseudarthria viscida. Linn.

International Journal of Research in Pharmaceutical Sciences, 2010, 1(2), 382-385.

- 82. Ajay Pise, Shilpa Pise, D Sreedhar, Manthan J, Virendra Ligade, N Udupa. Nanotechnology in nutraceuticals: A novel Approach. The Pharma Review, May-Jun 2010, 43-45.
- 83. V P Veerapur, K R Prabhakar, Vipan Kumar Parihar, Punit Bansal, K K Srinivasan, K I Priyadarsini, M K Unnikrishnan.

Antidiabetic, hypolipidaemic and antioxidant activity of *Dodonaea viscosa* aerial parts in streptozotocin-induced diabetic rats.

International Journal of Phytomedicine, 2010, 2(1), 59-70.

84. I S R Nidhiya, K S R Pai, C Mallikarjuna Rao.

Free radical scavenging activity of extracts of young prop roots of *Ficus bengalensis*. Pharmacologyonline, 2010, 2, 299-307.

85. Bhagath Kumar Potu, Muddanna S Rao, Gopalan Kutty Nampurath, Mallikarjuna Rao Chamallamudi, Soubhagya Ranjan Nayak, Huban Thomas,

Anti-osteoporotic activity of the petroleum ether extract of Cissus quadrangularis Linn, in ovariectomized Wistar rats.



Chang Gung Medical Journal, 2010, 33(3), 252-257.

86. Santhepete N Manjula, Mruthunjaya Kenganora, Vipan K Parihar, Suryakant Kumar, Pawan G Nayak, Nitesh Kumar, Karkala Sreedhara Ranganath Pai, Chamallamudi Mallikarjuna Rao.

Antitumor and antioxidant activity of *Polyalthia longifolia* stem bark ethanol extract. Pharmaceutical Biology, 2010, 48(6), 690-696.

87. Dev Prakash, Krishnamurthy Bhat, Raghavendra Shetty, Parveen Chaudhary, Sriram Pathak, Amitabha Ghosh.

Quantification of quetiapine in human plasma by reverse phase high performance liquid chromatography.

Arzneimittelforsehung, 2010, 60(11), 654-659.

88. Vijaya Dwaraka Vasantharaju S G, Latif Jamadar, Syed Sajjad Hussen, D Sreedhar, N Udupa.

Combinational products: A regulory review.

International Journal of Pharmaceutical Sciences Review and Research, 2010, 5(1), 52-60.

89. Daisy P A, Nagappa A N, Udupa N, Vadhiraja B M.

Advances in management of breast cancer treatment.

The Pharma Review, Sep-Oct 2010, 164-170.

90. D Sreedhar, Manthan D Janodia, Virendra S Ligade, Ajay G Pise, N Udupa.

Global drug safety monitoring systems: Marching forward to minimize drug related health hazards.

The Pharma Review, Sep-Oct 2010, 59-63.

91. Vamshi Krishna Tippavajhala, Madhusudan Rao Yamsani.

Electrophoretic estimation of insulin: A novel approach to an older technique.

International Journal of Current Pharmaceutical Research, 2010, 2(4), 19-23.

92. Hemal A Bhuva, Renuka R Parmar, Suvarna G Kini.

Synthesis and cytotoxic activity of some novel substituted 2-phenyl-1,3-benzothiazoles.

Journal of Pharmacy Research, 2010, 3(5), 980.

93. Suvarna G Kini, Anil Chandra Bhat, Zhiqiang Pan, Franck E Dayan.

Synthesis and antitubercular activity of heterocycle substituted diphenyl ether derivatives.

Journal of Enzyme Inhibition and Medicinal Chemistry, 2010, 25(5), 730-736.

94. Shalini Sharma, Shaila Lewis.

Taste masking technologies: A review.

International Journal of Pharmacy and Pharmaceutical Sciences, 2010, 2(2), 6-13.



95. Dhirendra Kumar, Vivek Dave, Shaila Lewis, Brajesh Parmar, Kavita R Gajbhiye, Sarvesh Paliwal.

Design and evaluation of sustained release matrix once daily formulation of stavudine.

International Journal of Drug Delivery, 2010, 2(2), 125-134.

96. Vivek Dave, Dhirendra Kumar, Shaila Lewis, Sarvesh Paliwal.

Ethosome for enhanced transdermal delivery of aceclofenac.

International Journal of Drug Delivery, 2010, 2(1), 81-92.

97. Chandrashekar K S, Prassana K S.

Lack of analgesic activity of petroleum ether extract of *Bauhinia racemosa* Lam in rats and mice.

Journal of Pharmaceutical Negative Results, 2010, 1(1), 22-23.

98. Chandrashekar K S, Prassana K S.

Anti-inflammatory potential of flavone glycoside from ethanol extract of the aerial parts of the plant *Leucas lavandulaefolia*.

Der Pharma Chemica, 2010, 2(4), 21-24.

99. K P Lata, H N Girish, C S Sreedhara, P Basavaraj.

Antinociceptive and anti-inflammatory effects of tubers of Gloriosa supperba Linn.

Advances in Pharmacology and Toxicology, 2010, 11(1), 111-117.

100. Chandrashekar K S, Prassana K S.

Antimicrobial Activity of Bauhinia purpuria Linn.

International Journal of Applied Biology and Pharmaceutical Technology, 2010, 1(2), 231-233.

101. Chandrashekar K S, Prassana K S, Ajay T.

Anti-inflammatory activity of *Moringa oleifera* stem bark extracts against carrageenen induced rat paw edema.

Journal of Chemical and Pharmaceutical Research, 2010, 2(3), 179-181.

102. Chandrashekar K S, Prassana K S.

Antimicrobial activity of Pongamia pinnata leaves.

International Journal of Medicobiological Research, 2010, 1(1), 18-20.

103. Chandrashekar K S, Prassana K S.

Analgesic activity of *Michelia champaca* root bark extract.

International Journal of Biomedical Research and Analysis, 2010, 1(1), 1-2.

104. R Lobo, Richa Agrawal, Kirti S Prabhu, A A Shirwaikar, Mamtha Ballal, Nipun Dashora, Vijay Sodde, Annie Shirwaikar.



Development and validation of a stability-indicating HPTLC method for analysis of hesperin in pharmaceutical dosage form.

Journal of Pharmacy Research, 2010, 3(7), 1648-1651.

105. Jayshree B S, Brajesh Porwal, Yogendra Nayak, Vijay Kumar D,

Antibacterial of newly synthesised pyridinyl coumarin derivatives.

Pharmacologyonline, 2010, 1, 190-199.

106. Seru Ganapaty, Desaraju Venkat Rao, Steve Thomas Pannakal.

A phenithyl bromo ester from Citharexylum fruticosum.

Natural Product Communications, 2010, 5(3), 399-402.

107. Anil Kanaujia, Rajeev Duggar, Steve Thomas Pannakal, Satyapal Singh Yadav, Chandra Kant Katiyar, Vinay Bansal, S Anand, S Sujatha, B S Lakshmi.

Insulinomimetic activity of two new gallotannins from the fruits of *Capparis moonii*. Bioorganic and Medicinal Chemistry, 2010, 18(11), 3940-3945.

108. G B Thippeswamy, D Vijay Kumar, B S Jayashree, M A Sridha, J Shashidhara Prasad.

1-(2-Hydr-oxy-5-methyl-phen-yl)-3-(3-methylthiophen-2-yl)prop-2-en-1-one.

Acta Crystallographic Section E: Structure Reports Online, 2010, 66(Pt 6), o1385.

109. Girish R Bankar, Gopalan Kutty Nampurath, Pawan G Nayak, Shoumyo Bhattacharya.

A possible correlation between the correction of endothelial dysfunction and normalization of high blood pressure levels by 1,3,4-oxadiazole derivative, an L-type Ca²⁺ channel blocker in deoxycorticosterone acetate and N^G-nitro-L-arginine hypertensive rats.

Chemico-Biological Interactions, 2010, 183(2), 327-331.

110. Amit Kunwar, P Bansal, S Jaya Kumar, P P Bag, P Paul, N D Reddy, L B Kumbhare, V K Jain, R C Chaubay, M K Unnikrishnan, K I Priyadarsini.

In vivo radioprotection studies of 3,3'-Diselenodipropionic acid (DSePA), a selenocystine derivative.

Free Radical Biology and Medicine, 2010, 48(3), 399-410.

111. I K Makhija, H Vignesh, K S Chandrashekar, L Richard, K S Prasanna.

Isolation of 3b-16a-dihydroxy-5-cholesten-21-al, n-docosanoic acid and stigmasterol from petroleum ether extract of stem bark of *Michelia champaca*.

Archives of Applied Science Research, 2010, 2(6), 344-348.

112. Kunal Saxena, Manthan D Janodia, D Sreedhar, V S Ligade, Ajay Pise, N Udupa.

European patent system: An overview.

The Pharma Review, Mar-Apr 2010, 61-63.



113. M P Sathisha, Srinivasa Budagumpi, Naveen V Kulkarni, Gurunath S Kurdekar, V K Revankar, K S R Pai.

Synthesis, structure, electrochemistry and spectral characterization of (Dglucopyranose)-4-phenylthiosemicarbazide metal complexes and their antitumor activity against Ehrlich Ascites Carcinoma in Swiss albino mice.

European Journal of Medicinal Chemistry, 2010, 45(1), 106-113.

114. Gupta P D, Nayak Usha Y, Pushkala K.

Darkside of the night light: Implication in breast cancer.

Journal of Cell and Tissue Research, 2010, 10(1), 2173-2184.

115. D Sreedhar, Manthan D Janodia, Virendra S Ligade, Ajay G Pise, N Udupa.

Counterfeit medicines: Global problem requires a global approach.

The Pharma Review, Jul-Aug 2010, 41-45.

116. Ajay G Pise, Shilpa Pise, D Sreedhar, Manthan J, Virendra L, and N Udupa.

New avenues in pharmacy education.

The Pharma Review, Nov-Dec 2010 page 137-138.

117. D Sreedhar, Manthan D Janodia, Virendra S Ligade, Ajay G Pise, N Udupa.

Combination product, co-packaged formulation, fixed dose combination, poly pill similarities and differences.

International Journal of Community Pharmacy, 2010, 3(1), 12-15.

118. Lingappa B, Sujith K V, Adithya Adhikari, Satheesha Rai N, Vijayanarayana K, Balakrishna Kalluraya.

One-pot synthesis of pyrimidinothiazolidinones and their anti-inflammatory and antimicrobial studies.

Phosphorus, Sulfur, and Silicon and the Related Elements, 2010, 185(3), 501-508.

119. Geetha Rao C G, Vijayanarayana K, Vipin K V, Subrahmanyam E V S, Satyanarayana D.

Enhancement of bioavailability of carbamazepine through formulation of a solid dispersion based suspension.

Pharmacologyonline, 2010, 1, 530-536.

120. Sushant Kamath, Vijayanarayana K, Prashanth Shetty D, Prerana Shetty.

Evaluation of genotoxic potential of aspartame.

Pharmacologyonline, 2010, 1, 753-769.

121. Vijayanarayana K, Rashmi S Rodrigues, Prerana Shetty, Sucheta Rai.

Toxicological studies of alcoholic extract of *Curculigo orchioides* on albino rats.

Pharmacologyonline, 2010, 1, 574-579.

122. Prabhu Prabhakara, Marina Koland, Vijayanarayana K, Harish N M, Shankar G, Mohd Gulzar Ahmed, Narayana Charyulu R, Satyanarayana D.



Preparation and evaluation of transdermal patches of papaverine hydrochloride.

International Journal of Research in Pharmaceutical Sciences, 2010, 1(3), 259-266.

123. K S Girisha, B Kalluraya, Vijayanarayana K, Padmashree.

Synthesis and Pharmacological study of 1-acetyl/propyl-3-aryl-5-(5-chloro-3methyl-1-phenyl-1H-pyrazol-4-yl)-2-pyrazoline.

European Journal of Medicinal Chemistry, 2010, 45(10), 4640-4644.

124. Prabhakara Prabhu, Nitish Kumar, Ganesh Dhonge, Vijayanarayana K, Marina Koland, Harish NM, Narayana Charyulu R.

Preparation and evaluation of liposomes of brimonidine tartrate as an ocular drug delivery system.

International Journal of Research in Pharmaceutical Sciences, 2010, 1(4), 502-508.

125. Prabhu P, Nitish Kumar R, Koland M, Harish N M, Vijayanarayana K, Dhondge G, Charyulu RN.

Preparation and evaluation of nano-vesicles of brimonidine tartrate as an ocular drug delivery system.

Journal of Young Pharmacists, 2010, 2(4), 356-361.

126. Veerapur V P, Prabhakar K R, Kandadi M R, Srinivasan K K, Unnikrishnan M K.

Antidiabetic activity of *Dodonea viscosa* aerial parts in high-fat diet and low dose streptozotocin-induced type-2 diabetic rats.

Pharmaceutical Biology, 2010, 48(10), 1137-1148.

127. Richard Lobo, K S Chandrshakar, Jaykumar B, Mamatha Ballal.

In vitro antimicrobial activity of Clerodendrum viscosum (Vent).

Der Pharmacia Lettre, 2010, 2(6), 257-260.

128. Qumre Alam, Vijayarnarayana K, D Satyanarayana.

Evaluation of extrogenic activity of alcoholic extracts of fruits of Solanum xanthocarpum using percentage vaginal cornification and vaginal opening as parameters of assessment.

Pharmacologyonline, 2010, 3, 495-502.

129. Sachin K Singh, K K Srinivasan, K Gowthamarajan, G B Narayan.

Development and validation of discriminatory dissolution procedure for poorly soluble glyburide.

Asian Journal of Pharmaceutics, 2010, 4(4), 205-212.

130. D Dhayabaran, E Jeyaseeli Florance, K Nandakumar, A Puratchikody.

Anxiolytic and anticonvulsant activity of alcoholic extract of heart wood of *Cedrus* deodara Roxb. inrodents.

Journal of Medicinal Plants Research, 2010, 4(14), 1374-1381.



131. G Pitchaiah, G L Viswanatha, R Srinath. K Nandakumar, D Dayabaran, E J Florance.

Anxiolytic and anticonvulsant activity of aqueous extract of stem bark of Erythrina variegata in rodents.

International Journal of PharmTech Research, 2010, 2(1), 40-48.

132. G B Thippeswamy, D Vijay Kumar, B S Jayashree, M A Sridhar, J Shashidhara Prasad.

1-(2-Hydr-oxy-5-methyl-phen-yl)-3-(3-methylthiophen-2-yl)prop-2-en-1-one.

Acta Crystallographica Section E: Structure Reports Online, 2010, 66(Pt 6), o1385.

133. Gollapalle Lakshminarayana Shastry Viswanatha, Santhosh Kumar Vaidya. Ramesh C, Nandakumar Krishnadas, Srinath Rangappa.

Antioxidant and antimutagenic activities of bark extract of *Terminalia arjuna*.

Asian Pacific Journal of Tropical Medicine, 2010, 3(12), 965-970.

134. R Kumanan, S Manimaran, Khan Saleemulla, S P Dhanabal, M J Nanjan.

Screening of bark of Cinnamomum tamala (Lauraceae) by using α-amylase inhibition assay for anti-diabetic activity.

International Journal of Pharmaceutical and Biomedical Research, 2010, 1(2), 69-72

135. Radhakrishnan Rajesh, Sudha Vidyasagar Subin Johnson, Sonika Singh, Shreekant Sharma.

Highly active antiretroviral therapy induced cutaneous adverse drug reactions in patients with human immunodeficiency virus infection.

Pharmacologyonline, 2010, 1(3), 101-118.

136. Chandrashekar K S, Prassana K S, H Vignesh.

Phytochemical studies of stem bark of Michelia champaca Linn.

International Research Journal of Pharmacy, 2010, 1(1), 243-246.

137. Manthan D Janodia, Preeti Shah, Bipasha Chakraborty, D Sreedhar, Ajay P, Ligade V, N Udupa.

Medical device vigilance.

The Pharma Review, Nov-Dec 2010, 95-98.

138. Kunal Saxena, Patil Harshad, Kushal Shah, S Poojee, A N Nagappa.

Indian Bayh Dole: Is it relevant or negligent?

The Pharma Review, Mar-Apr 2010, 47-60.

139. Anananth Naggappa Naik, Aruna Kumari Narava, Murali Krishna, Pooja Upadhyay, Soujanya Yarlagadda.

Export potential of herbal drugs in India.

The Pharma Review, May-Jun 2010, 88-92.

140. Anantha Naik Nagappa.



Counterfeiting of pharmaceuticals: Scourge of modern health care and economy. The Pharma Review, Jul-Aug 2010, 66-71.

Chapters in Books:

2013

- 1. Chapter 34: Camellia Sinensis (Tea) in the Prevention of UV-Induced Carcinogenesis: A Mechanistic Overview Bioactve Dietary Factors and Plant Extracts in Dermatology, 2013, 367-384 (ISBN: 978-1-62703-166-0) Princy Louis Palatty, Manjeshwar Shrinath Baliga, Anatappa Govindaraju Rajeev, Raghavendra Haniadka, Harshith P. Bhat, Karkala Shreedhara Ranganath Pai, Manoj P Rai, Nikku Mathew Geevarughese and Rajesh Arora. Nutrition and Health Seriec Editor: Adrianne Bendich, Humana Press, New York
- 2. Chapter 13: Antidiabetic, Antihyperlipidemic and Antioxidant Effects of the Flavonoids. M K Unnikrishnan, Veeresh Veerapur, Yogendra Nayak, Piya Paul Mudgal and Geetha, Mathew. Polyphenols in Human Health and Disease. Polyphenols in Human Health and Disease.

2012

- 3. Princy Louis Palatty, Manjeshwar Shrinath Baliga, Anatappa GOvindaraju Rajeev, Raghavendra Haniadka, Harshith P. Bhat, Karkala Shreedhara Ranganath Pai, Manoj P Rai, Nikku Mathew Geevarughese and Rajesh Arora, Chapter 34: Camellia Sinensis (Tea) in the Prevention of UV-Induced Carcinogenesis: A Mechanistic Overview Bioactve Dietary Factors and Plant Extracts in Dermatology, Ed: Ronald Ross Watson and Sherma Zibadi, Nutrition and Health Seriec Editor: Adrianne Bendich, Humana Press, New York 2013, 367-384 (ISBN: 978-1-62703-166-0)
- 4. Ranjith Kumar Averineni, Gopal Venkatesh Shavi, Om Prakash Ranjan, Praful Balavant Deshpande, Gurram Aravind Kumar, Usha Yogendra Nayak, Meka Sreenivasa Reddy, Nayanabhirama Udupa. Formulation of Gliclazide Encapsulated Chitosan Nanoparticles: In Vivo Evaluation. NanoFormulation, 2012, 77-85. Publisher Royal Society of Chemistry, London, (ISBN: 978-1-84973-378-6).

2011

5. P D Gupta, N Udupa, Application of Nanotechnology in Health Sciences, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India(ISBN 978-93-80018-02-1)



- T. T. Angel, P. Upadhyay, N Udupa, Nanobiotechnology and its Facade, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 7. Karthik, C. M. Rao, N. Udupa, Materials for preparation of nanocarrier systems, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 8. R. V. Kulkarni, S. Mutalik, N. Udupa, Smart Polymers as drug carriers in nanotechnology, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- O.P. Ranjan, M. S. Reddy, N. Udupa, Nanosuspensions: A novel technology, in drug delivery, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 10. N. Maliyakkal, N. Udupa, Role of nanotechnology in treatment of central nervous system disorders, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 11. M. D. Janodia, N. udupa, Patenting of nanotechnology, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 12. D. Sreedhar, N. Udupa, Regulations of nanotechnology products, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 13. V. S. Ligade, A. G. Pise, Nanotechnology in cosmeceuticals, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 14. G. Pise, V. S. Ligade, N. Udupa, Nanotechnology in neutraceuticals, Nanotechnology in Healthcare, Edited by P D Gupta, N Udupa, S P Publications, 2011, Jaipur, India.
- 15. Naseer Maliyakkal, K.S.R Pai, Nanotechnology in health Care, (Chapter 31 Nanotechnology Application in Cancer), Dr. P.D. Gupta and Dr. N.Udupa, S.P.Publictions, Jaipur, 2011, page no 443-448,ISBN: 978-93-80018-02-1.

2010

- 16. D Sreedhar, R Thiyagu, M D Janodia, Virendra S Ligade and Dr N Udupa. Pharmacovigilence – Obligations of Pharmaceuitical Companies, book Chapter 22 of Elements of Pharmacovigilance. 2010, Page 308-329. Published by Kongposh Publications Pvt. Ltd., New Delhi. (ISBN- 978-81-90626-42-2)
- 17. Manjeshwar Shrinath Baliga, Ponemone Venkatesh, Shantala Bellary, Manjeshwar Poonam Baliga-Rao, Karkala Sreedhara Ranganath Pai, Ravindranath Shanbhag,



Meda Nagaraja Setty, Herbal Medicine: A Cancer Chemopreventive and Therapeutic Perspective, (Chapter 32. Ultraviolet Radiation-induced Skin Damage and Carcinogenesis: Preclinical Efficacy of Camellia sinensis (Tea), Ed: Rajesh Arora. Jaypee BrothersMedical Publishers (P) Ltd,. 2010, Page No 486-512. ISBN: 978-81-8448-841-

18. Manjeshwar Shrinath Baliga, Harshith P Bhat, Denzil Corda Johnson, Ankit Paresh Mehta, Shaun Mathew Kandathil Karkala Sreedhara Ranganath Pai, Chamalamudi Mallikarjuna Rao, Rajesh Arora., Herbal Medicine: A Cancer Chemopreventive and Therapeutic Perspective (Chapter 38. Ayurvedic Rasayana Drug Triphala as a Novel Anticancer, Chemopreventive and Radioprotective Agent: Mechanistic Insights)Ed: Rajesh Arora. JaypeeBrothers Medical Publishers (P) Ltd, 2010, Page No 599-615. ISBN: 978-81-8448-841-8.

• Edited Books:

1. Nanotechnology in health Care, (Chapter 31 Nanotechnology Application in Cancer), Dr. P.D. Gupta and Dr. N.Udupa, S.P.Publictions, Jaipur, 2011, ,ISBN: 978-93-80018-02-1.

• Books with ISBN with details of publishers:

- 1. Dr N Udupa & Dr M Sreenivasa Reddy, (2014) An Insight into Industrial Pharmacy, Prism Books Pvt. Ltd., ISBN: 978-81-7286-740-9.
- 2. Dr N Udupa & Dr Srinivas Mutalik, (2014) Recent Trends in Novel Drug Delivery, Prism Books Pvt. Ltd., ISBN: 978-81-7286-742-3.
- 3. Dr N Udupa & Dr A N Nagappa, (2014) Fundamentals of Pharmaceutical Care, Prism Books Pvt. Ltd.,ISBN: 978-81-7286-741-6.
- 4. N Udupa 'Exploring Nanotechnology in Healthcare, (2013) Manipal University Press, ISBN 978-93-82460-11-4
- 5. Concepts in Chronopharmacology, Edited by Dr N Udupa and Dr P D Gupta, Shyam Prakashan Publishers, Jaipur, India (ISBN: 978-93-80018096)
- 6. Nanotechnology in Healthcare, Edited by Dr P D Gupta and Dr N Udupa, Shyam Prakashan Publishers, Jaipur, India. ISBN: 978-93-80018-02-1.
- Pharmaceuticals, Cosmeceuticals and Nutraceuticals An overview of Regulations, Edited by Dr N Udupa and Harvinder Popli, ISBN 978-81-88739-83 1st Edition December 2010, Published by Career Publications, Nashik, Maharashtra
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 1046 Publications (Scopus)
- Impact Factor range / average : range: 1 to 7



• h-index: 44

23. Details of patents and income generated

Patents

- 1. An improved process for the preparation of flavonoids from ocimum sanctum (Krishna Tulsi) (Pathirisseri Umadevi, Adikesavan Ganasoundari and Keloth Kaitheri Srinivasan - Document No. 184300)
- 2. "Transdermal drug delivery device containing oral antidiabetic drug" (Product patent) document No. 207023)
- 3. "Biodegradable polymeric composition for the treatment of diabetes mellitus (Product patent) (patent No. 214342)"
- 4. "Mucoadhesive Buccal Composition containing nicotine useful for smoking cessation and a process for its preparation" (221428 23-06-2008)
- 5. "Bioadhesive drug delivery system containing parasympathomimetic agent for the treatment of xerostomia" (Patent No. 222658 dated 20-08-2008)
- 6. Pharmaceutical composition useful for the treatment of diseases caused by viruses and a process for its preparation(Patent No. 222692 dated 23-06-2008)"
- 7. "Biodegradable polymeric composition useful in the treatment of periodontitis" (Patent No. 223664 dated 19/09/2008)
- 8. "Biodegradable polymeric monolithic film useful for the restoration of the periodontium(Patent No. 223665 dated 19/09/2008)".

Patents Filed

- 1. Herbal Composition for improving anticancer activity, anti-inflammatory activity and protecting body from oxidative damage and the method of preparing the same.
- 2. Anti-inflammatory and analgesic activities of a non-ulcerogenic Novel synthetic molecule: 2-(4, 6-dihydroxy-2-mercaptophrindin-5-yl-)-2-hydroxy-1H-1dene-1,3 (2H)-Dione (DMPI) (2300/CHE/2010 dated 11-08-2010).
- 3. Antiinflammatory and analgesic activities of a non-ulcerogenic novel synthetic molecule: 2(4, 6-dihydroxy-2-mercaptophrinidin-5-yl) -2-hydroxy-1H-1dene-1,3(2H)-dione (DMPI).
- 4. Timed-release compression-coated tablet composition for chronotherapy of hypertension.
- 5. "A Noveltargeted Drug Delivery Sytem for Revastigmine in Liposomes and Nano Particles Forms For The Treatment Of Alzheimer's Disease" (Patent Application # 2541/DEL/2011 dated 5.9.2011)



- 6. A Novel Drug Delivery System for the effective treatment of hypertension.
- 7. Nanocrystals of naringin and its preparation (Appl No 1818/CHE/2014)

Income generated: Nil

24. Areas of consultancy and income generated

- -Formulation development
- -Analytical testing services
- -Preclinical animal testing
- -Community Pharmacy
- -Poison information center
- -Drug information center

Income generated: 2 laks/ year (Appox)

25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad

M K Unnikrishnan was awarded the JNCASR Visiting Fellowship for spending a three month term at Indian Institute of Science, Bangalore.

26. Faculty serving in

a) National committees:

- a) Dr. N Udupa is the member of National committee like Indian Pharmacopoeia Commission Ghaziabad, Ministry of Health & Family Welfare, Govt of India
- b) Dr. N Udupa: Executive Member, sub-committee constituted by PCI, New Delhi for the Pharm D programme
- c) Dr. N Udupa, Dr. C. Mallikarjuna Rao, Dr. J.V. Rao, Dr. Anantha Nagappa Naik Dr. Jayashree B.S. Dr. C.S. Shreedhara Dr. M.K Unnikrishnan and Dr. Chandrashekar K.S are the Inspectors of Pharmacy council of India.

b) International committees: Nil

c) Editorial Boards:

Many research papers have been published as a result of research facility at MCOPS. As a result many of our faculy members are recognized as editorial member of various research journals and reviewer for many national and international journals.

| | # | Name | Editorial board member | Reviewer |
|---|---|------------|---|---|
|] | 1 | Dr N Udupa | Controlled Release Society, India | International Journal of Pharmaceutics, |
| | | | Indian Journal Of Pharmaceutical Sciences | Drug Development and Industrial |



| # | Name | Editorial board member | Reviewer |
|---|---------------------------------|---|---|
| | | Indian Drugs | Pharmacy, Drug Delivery, |
| | | Pharmag Indian Journal of Pharmaceutical Education | Pharmaceutical Development and Technology, |
| | | and Research Pakistan Journal of Pharmaceutical Sciences | Journal of Microencapsulation, AAPS PharmSciTech, |
| | | Pharma Today. | Journal of Ethnopharmacology, |
| | | Pharma Link Pharma New Letter | Journal of Pharmaceutical Sciences, |
| | | Current Trends in Education. | Journal of Pharmacy and Pharmacology, |
| | | Drug Lines Indian Journal of Hospital | European Journal of Pharmaceutics and Biopharmaceutics, |
| | | Pharmacy International Journal of | Expert Opinions in Drug Delivery, |
| | | Community Pharmacy | Indian Journal of Pharmaceutical Sciences |
| 2 | Dr Srinivas Mutalik | Drug Invention Today (Executive editor) Journal of Pharmaceutics (Editorial board member) ISRN Pharmaceutics (Editorial board member) Journal of Chronotherapy and Drug Delivery (Editorial board member) The World Scientific Journal (Editorial board member) | Journal of Pharmaceutical Sciences Journal of Controlled Release, Pharmaceutical Research, International Journal of Pharmaceutics, Journal of Microencapsulation, Current Drug Delivery, AAPS PharmSciTech, Carbohydrate Polymers |
| 3 | Dr C Mallikarjuna Rao | Indian journal of Pharmaceutical Education and Research, Indian Journal of Pharmacology, International Journal of Community Pharmacy | Pharmaceutical Biology Indian Journal of Experimental Biology Indian Journal of Pharmacology |
| 4 | Dr Sreedhara Ranganath Pai K | International Journal of Community Pharmacy | Pharmaceutical Biology Indian Journal of Experimental Biology Indian Journal of Pharmacology |



| # | Name | Editorial board member | Reviewer |
|----|----------------------------|---|---|
| | | | Chinese journal of Integrated Medicine, Indian journal of Pharmaceutical Education and Research |
| 5 | Dr Anantha Nagappa Naik | Indian Journal of current pharmaceutical research Indian Journal of Pharmaceutical Education and Research | Indian Pharmaceutical Congress- Abstracts Reviewer. President of Association of community Pharmacist of India Reviewer for International Society for pharma- economics and Outcome research |
| 6 | Dr D Sreedhar | Journal of Education and Review, Thematic Journals, International Journal of Pharmaceutical and Allied Sciences Archives, International Journal of Community Medicine World Journal of Medicine and Medical Science | International Journal of Community Pharmacy, Indian Journal of Hospital Pharmacy Young Journal of Pharmacist, Health Affairs, International Journal of Educational Administration and Policy Studies, Value in Health, Science Journal of Business Management |
| 7 | Dr Raghu Chandrashekar | Evidence based Complementary and Alternative Medicine, Biological and Pharmaceutical Bulletin | 2 wom voor 12 waard gemeent |
| 8 | Dr Jesil Mathew A | Evidence based complementary and alternative medicineGuest Editor American Journal of Pharmacology and toxicology, Science Publications | |
| 9 | Dr N Sivagurunathan | African journal of Microbiology Research | |
| 10 | Dr M Manjunatha Setty | Editorial member for World research Journal of Medicinal and Aromatic Plants International Journal of Drug formulation and Research | |



| # | Name | Editorial board member | Reviewer |
|----|------------------------------|---|--|
| 11 | Dr Richard Lobo | BMC-CAM Pharmaceutical Crops | |
| 12 | Dr S G Vasantharaju | Member for the Journal Applied Biopharmaceutics and Pharmacokinetics. | |
| 13 | Mr Kanav Khera | Indian Journal of Hospital Pharmacy | |
| 14 | Mr John Preshanth Kumar P | Indian Journal of Hospital Pharmacy | |
| 15 | Dr B S Jayashree | International Journal of Community Pharmacy | |
| 16 | Dr Sreedharan | International Society for Pharmacoeconomics and out come Research (ISPOR) | |
| | | Kautilya's Society for Pharmacoeconomics and Outcome Research (KSPOR) | |
| | | Association of Community Pharmacy of India (ACPI) | |
| 17 | Mrs Leelavathy D Acharya | Indian Journal of Hospital Pharmacy(IJHP) | |
| 18 | Dr Surulivel Rajan M | Indian Journal of Hospital Pharmacy | |
| 19 | Mr Rajesh R | Indian Journal of Hospital Pharmacy | |
| 20 | Mr Sonal Sekhar M | Indian Journal of Hospital Pharmacy (Publication Committee Member) RIPER Drug and Poison Information Center (DPIC) Bulletin (Editorial advisory Board Member) | |
| 21 | Mrs Angela Treasa Alex | | Reviewer-BioMed Central Complementary and Alternative Medicine |
| 22 | Dr Krishnamurthy Bhat | | IJPER, Pharma Methods, Acta Chromatographia |
| 23 | Dr Prashant B Musmade | | Analytical Chemistry Insights International Journal of |



| # | Name | Editorial board member | Reviewer |
|-----|-----------------------|------------------------|--------------------------|
| | | | Biomedical Sciences |
| | | | Archiv der Pharmazie |
| | | | Biochemical Sciences. |
| | | | International Journal of |
| | | | Health & Allied Sciences |
| | | | British Journal of |
| | | | Pharmaceutical Sciences |
| 24 | Dr Suvarna G Kini | | European Journal of |
| 2-7 | Di Savana G Kini | | Medicinal Chemistry, |
| | | | Journal of Medicinal |
| | | | Chemistry and MCC |
| 25 | Dr Varadaraj Bhat G. | | Phytotherapy research, |
| 23 | Di Varadaraj Bilat G. | | National Academy Science |
| | | | Letters and IJPER |
| | | | |

- d) any other (please specify): BOS members of various universities, Scientific services committee of various pharmaceutical professional associations
- Dr. N Udupa, Dr.Srinivasa Reddy M and Dr. C Mallikarjuna Rao are the members of Scientific services committee of Indian Pharmaceutical Association
- The following are the BOS members of various universities.

| Sl.No | Name | BOS Member |
|-------|------------------------------|--|
| 1. | Dr M Sreenivasa Reddy | KUHS, Thrissur, Kerala, |
| 2. | Dr K B Koteshwara | Kuvempu University, Shimoga |
| 3. | Dr B S Jayashree | RGUHS, Bangalore, JSS University, Ooty |
| 4. | Dr M Manjunatha Setty | RGUHS, Bangalore |
| 5. | Dr C Mallikarjuna Rao | RGUHS, Bangalore, Sri Padmavathi Mahila Viswavidyalayam Tirupathi, |
| 6. | Dr N Gopalan Kutty | Kuvempu University, Shimoga |
| 7. | Dr Sreedhara Ranganath Pai K | Kuvempu University, Shimoga |
| 8. | Dr M K Unnikrishnan | External Member, Board of Studies (UG) Rajiv Gandhi University of Health Sciences, Karnataka |
| | | Member, Review Committee for monitoring progress of doctoral research at Nitte University (2012) |
| | | Member PhD protocol review committee, Manipal University, Manipal (2011) |
| 9. | Dr N Udupa | Director of Research (Health Sciences) Manipal University, Manipal. Board of Studies, Banaras Hindu |
| | | University, |



| Sl.No | Name | BOS Member |
|-------|-----------------------|---|
| | | Board of Studies, Mangalore University, Mangalore Board of Studies, Rajiv Gandhi University, Bangalore |
| | | Board of member Mysore University, Mysore |
| | | Board of Member Kuvempu University, Shimoga |
| 10. | Dr Krishnamurthy Bhat | RGUHS, Bangalore, Ahmadabad University, Ahmadabad |
| 11. | Dr S G Vasantharaju | RGUHS, Bangalore |
| 12. | Dr J Venkata Rao | M.G University, Kottayam, Kerala. |
| | | Kalasalingam University, Krishnankoil, Tamilnadu |

27. Faculty recharging strategies

Research incentives, financial assistance to attend conferences by Manipal University

28. Student projects

- percentage of students who have done in-house projects including interdepartmental projects: 70%
- percentage of students doing projects in collaboration with other universities / industry / institute: 30%

29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows
- Students

2014

- 1. Mr Vamshi Krishna T, Department of Pharmaceutics Achieved second best oral presentation award for presenting "Formulation and evaluation of multiparticulate dosage forms of rifampicin and isoniazid with improved rifampicin stability" at "National Conference on Innovations and Trends in Pharmaceutical Sciences", Nirmala College of Pharmacy, Mangalagiri, Guntur, Andhra Pradesh on March 29, 2014
- 2. Dr M K Unnikrishnan, Department of Pharmacy Practice was awarded with Cold Spring Harbor Laboratory fellowship (\$535.00 USD) for attending and presenting poster at the 79th Cold Spring Harbor Symposium on Quantitative Biology:



- Cognition, Meetings & Courses Program, New York, U.S. during 28 May 2 June, 2014
- 3. Dr Rekha Shenoy, Department of Pharmacology received the "Second Prize" in scientific poster presentation in NCADDD at Trichy in July 2014.
- 4. Dr K S Chandrashekar, Department of Pharmacognosy has won the 2nd prize in poster presentation at Vatayana – 2014, National seminar on Neuro – Degenerative Conditions and Nuero-Lesions held at Bangalore on August 15, 2014.
- 5. Dr Usha Y Nayak, Department of Pharmaceutics won first prize for poster preseantation in the International Conference on Innovations and Future Reseach Dimensions on Anobio Pharmaceutical Technology during Ocober 7-8, 2014
- 6. Dr Usha Y Nayak, Department of Pharmaceutics awarded "First Prize in poster presentation" for the paper entitled 'Development & evaluation of Risperidone liposomes for brain targeting' in the TEQIP II & DBT sponsored International Conference on the Innovations & Future Research Dimensions on Nanobio Pharmaceutical Technology held at the Dept of Pharmaceutical Technology (Centre for Excellance in Nanobio Translational Research), Anna University, BIT Campus, Tiruchirapalli during October 7-8, 2014.
- 7. Dr Richard Lobo, Department of Pharmacognosy won the third prize for the poster presentation during the National Seminar on Medicinal Plants/Dravyaguna "Hastaamalaka 2014" organized by Muniyal Institute of Ayurveda Medical Sciences, Manipal held on November 12, 2014.
- 8. Dr Srinivas Mutalik, Department of Pharmaceutics attended as Keynote speaker in the 1st International conference on Pharmaceutics and Pharmaceutical sciences held at, Pullman Surabaya City Centre, Indonesia, during November 14 – 15, 2014.
- 9. Dr Jayesh Mudgal, Department of Pharmacology has been awarded First Prize for poster presentation in the 4th National Conference of the Society of Biological Scientists of India (SOBSI) held during November 18 – 20, 2014 at Yenepoya University, Mangalore.
- 10. Dr Prashanth B Musmade, Department of Pharmaceutical Quality Assurance won the frist prize for the poster presentation during scientific sessions of 19th Annual National Convention of Association of Pharmaceutical Teachers of India on "Emerging Trends in Pharmacy profession and education" held during November 28 - 30, 2014.
- 11. Dr Shaila A Lewis, Department of Pharmaceutics won the second prize for the poster presentation during scientific sessions of 19th Annual National Convention of Association of Pharmaceutical Teachers of India on "Emerging Trends in



- Pharmacy profession and education" in the subject Pharmacology held during November 28 30, 2014.
- 12. Dr Shaila A Lewis, Department of Pharmaceutics bagged Best poster award for the poster entitled "Quercetin as CYP3A4 inhibitor for improved oral bioavailability of Felodipine" at APTICON 2014 on the theme "Emerging trends in Pharmacy profession and education" organized by Pune Region Pharmacy Institution and APTI on November 28-30, 2014 at Pune, Maharashtra.
- 13. Dr Usha Y Nayak, Department of Pharmaceutics awarded "First Prize in poster presentation" entitled, Nanotechnology in Anti-HIV Therapy, A poster competition for "AIDS FREE INDIA-HYPE or HOPE" event organized by community development committee, Manipal University Association of Pharmacy Students in Collaboration with ISPOR, MUSC, held on November 30, 2014 (World Aids Day).
- 14. Dr Anup Naha, Department of Pharmaceutics Appointed as Chief Coordinator of Manipal University Voluntary Service Organisation
- 15. Dr Jayesh Mudgal, Department of Pharmacology received "First Prize" in scientific poster presentation in the 4th National Conference of the Society of Biological Scientists of India (SOBSI) held duringm November 18 -20, 2014 at Yenepoya University, Mangalore.
- 16. Dr S G Vasantharaju, Deaprtment of Pharmaceutical Quality Assurance received Certificate of Appreciation from Dr P D Sethi Annual 2013 for the research paper
- 17. Dr S G Vasantharaju received Best Research Paper Award for year 2014 organised by Association of Pharmaceutical Teacher's of India (APTI's)
- 18. Dr Srinivas Mutalik, Department of Pharmaceutics has served as Poster Author in the Poster Walkway of Discovery at "6th Bangalore INDIA NANO 2013".
- 19. Dr K S Chandrashekar, Dr Girish Pai and Ms Daksha Gupta received certificate of Merit in Dr P D Sethi Annual Award 2013 for the paper entitled Invitro Antidiabetic activity of Pentacyclic Tritrapenoids and Fatty acid Esters from Bauhinia Purpurea.

20. Dr Anup Naha, Department of Pharmaceutics has received Best Paper Award for the poster entitled Formulation and In vitro Evaluation of self-Nanoemulsifying Drug Delivery System (SNEDDS) of Gliclazide under professional poster in DUPHAT held in Dubai during March 10 - 12, 2013. The Paper was co-authored by Dr M Sreenivasa Reddy and Dr N Udupa.



- 21. Dr Anantha Nagappa Naik, Department of Pharmacy Management received APP Academic Excellence Award in 2nd APP Annual National Convention held on March 17, 2013 at Nasik.
- 22. Dr Saleemullah Khan, Department of Pharmacognosy was awarded the Inter Science Scholastic Award for the paper entitled "Isolation and characterization of oligomeric procyanidin-rich polyphenol fraction of Cinnamomum zeylanicum bark and its in vitro antidiabetic studies" for the category best presentation in the tract IJCPPT at the International Joint Conference on Control, Pharmacology and Pharmaceutical Technology held at Chandigarh on March 24, 2013.
- 23. Dr Krishnamurthy Bhat, Abilasha Gupta, ST Bhagawati, BS Muddukrishna, Jagadish PC of Department of Pharmaceutical Quality Assurance received Best Paper in Pharmaceutical Analysis for the article published in IJPER "Estimation of stavudine, lamivudine and nevirapine by Chemometric UV Spectroscopic Method" during APTI – 18th Annual National Convention, Rajahmundry, AP October 25 -27, 2013.
- 24. Dr V M Subrahmanyam, Department of Pharmaceutical Biotechnology secured First prize for the Research Paper entitled "Curcumin loaded Nano-lipospmes: optimization of formulation conditions using design of experiment" during APTI – 18th Annual National Convention, Rajahmundry, AP October 25 - 27, 2013.
- 25. Dr Srinivas Mutalik, Department of Pharmaceutics has been awarded with prestigious "Young Pharmacy Teacher of the Year 2013" award by Association of Pharmacy Teacher of India (APTI) in 18th APTI National Convention held at Rajahmundry, A P during October 25 - 27, 2013. Dr Mutalik has also received Award for Research Publication (ARP) by VGST (Vision Group on Science and Technology), Department of IT, BT and S&T, Government of Karnataka for the year 2012-13.
- 26. Dr Usha Y Nayak, Department of Pharmaceutics has received Second prize for the Poster entitled "Gastro Retentive Pulsative Release Lercanidipine HCL formulations: Development, Evaluation in Vivo Buoyancy and Pharmacokinetic study" during International Humboldt Kolleg on the Bench to Bedside Translational Research Potential Benefits of Interdisciplinary collaboration November 15 - 17, 2013.
- 27. Dr C S Shreedhara, Department of Pharmacognsoy has received 1st place for the poster entitled "Preparation and nanoformulation of Tripala extract and evaluation of its in vitro antioxidant and cytotoxic potential" during the World Congress



- organised by International Society for nature and Health Care Inc , USA during December 16 - 18, 2013.
- 28. Mr Madhavan Nampoothiri, Department of Pharmacology was selected as one of the winners for a travel grant in the category "Awards for investigators from developing countries in the amount of USD 1000 & free congress registration fee " During XX World Congress on Parkinson's Disease and Related Disorders, Geneva, Switzerland.
- 29. UGC has nominated Dr Manthan D Janodia, Department of Pharmacy Management to visit USA under 300 Roman Fellows for Post Doctoral Studies in USA under Indo-US 21st Century Knowledge initiative for a period of one year from August 2013.
- 30. Dr N Udupa, former Principal MCOPS and present Director of Research (health Sciences), Manipal University and Dr M K Unnikrishnan (Professor and Head, Department of Pharamcy Practice) were awarded the prestigious Dr T M A Pai Endowment Chair for their contribution to academics and research. Under this, meritorious postgraduate students will be able to pursue their doctoral studies.

- 31. Dr. N.Udupa: Prof C J Shishoo Award in October 2012 for his research in pharmaceutical Sciences initiated by Association of Pharmaceutical Teachers of India (APTI), October 2012.
- 32. Dr. N.Udupa: Acharya P. C. Ray Gold Medal Award for great achievement and service to Profession of Pharmacy by Indian Pharmaceutical Association (IPA), November 2012.
- 33. Dr. N.Udupa: Schroff Memorial National Award for Contribution as a scientist and drug researcher by Indian Hospital Pharmacists Association (IHPA), December 2012.
- 34. Dr. M.K Unnikrishnan received, Teacher of the year award for Excellence in Teaching and Research 2012.
- 35. Dr. M.K Unnikrishnan received, Indian National Science Academy Travel Award for Attending and delivering an invited talk at the 16th Evolutionary Biology Meeting, Marseilles, France, 18th to 21st September 2012.
- 36. Dr. Shaila Angela Lewis, Associate Professor, Department of Pharmaceutics, MCOPSreceived the Best Poster Award for her poster entitled "Formulation and Evaluation of an Antidiabetic and Antihypertensive in a single dosage form" under category of professional poster in DUPHAT(Dubai International Pharmaceuticals



- & Technologies Conference & Exhibition)held in Dubai during March 12 -14, 2012.
- 37. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Outstanding Student Chapter Award - Third Best Student Chapter Globally to Manipal College of Pharmaceutical Sciences, Manipal University.
- 38. Yogendra Nayak, Vijay Mor and M.K. Unnikrishnan: Indian Journal of Pharmaceutical Education and Research (IJPER) Best Research Paper published in 2011. Prof. B.M.Mithal Memorial Award for Pharmaceutical Education, October 2012.
- 39. Chirag Dhingra, Sherin Babykutty, S.D. Vachala and K.S.R. Pai. In vitro evaluation of the apoptotic potential of novel pyrimidine analogs. Department of Pharmacology, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal – 576104, Karnataka, India. Presented at 64th IPC, Chennai, December 7-9, 2012. Received 2nd Prize in poster presentation.
- 40. Praveen KS, Y Rajesh, VM Subrahmanyam, J Venkata Rao. Screening Of Soil Samples For Isolation Of Cyclodextrin Glycosyltransferase Producing Microorganisms. Department of Pharmaceutical Biotechnology, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal – 576104, Karnataka, India. Presented at 64th IPC, Chennai, December 7-9, 2012. Received 2nd Prize in poster presentation.
- 41. Vachala SD. Docking, Synthesis and Biological Evaluation of some novel 5substituted-1,3,4-thiadiazol-2-amines ad their Schiff base. Presented at Diabetes mellitus and Cancer (Dia-Can' 12), DBT-CSIR sponsored International Conference at Annamalai University from December 14-16, 2012.(Best Oral Presentation Award).
- 42. Annual Best Research Paper Award in Pharmaceutical Sciences of Manipal University instituted by Dr N Udupa, Principal, MCOPS, Manipal for the year 2011-2 to Dr A. Ranjith Kumar.
- 43. Jagtap D. "Studies on Optimization of production parameters for improving the yield of microbial secondary metabolite with microbicidal and cytocidal activity." Department of Pharmaceutical Biotechnology, MCOPS, Manipal. Best Paper selected for Oral presentation during 64th IPC, Chennai, December 7-9, 2012.
- 44. Dr Srinivas Mutalik received Best M Pharm Dissertation Award: M. Pharm dissertation (Curcumin loaded nanoparticulate drug delivery system for the treatment of inflammatory bowel disease; Student: Neelam Suthar) has been received Ist Runner-up prize in "All India Level Rajnibhai V Patel Best M. Pharm.



- Thesis Competition" conducted by Troikaa Pharmaceuticals Limited, Ahemedabad during 2012-13.
- 45. Dr Srinivas Mutalik received Award for Best Research Paper 2012-13; Awarded by Vision Group for Science and Technology (VGST), Department of Science and Technology, Government of Karnataka State, India.
- 46. Dr Srinivas Mutalik received Young Scientist Award in 5th ICMPHP (International Conference on Medicinal Plants and Herbal Products) conducted in Manipal from 25-27, January 2013.
- 47. Dr Srinivas Mutalik received Best Poster Award in 5th IAPST National Convention, held at Manipal on 5th Nov 2012.

- 48. Dr. N Udupa received the Pharmacy Teacher of the year award for the year 2008-09 was conferred by 54th Indian Pharmaceutical Congress Trust, Pune in the month of June 2010.
- 49. Dr N Udupa, Principal and Professor, Department of Pharmacy Management received Prestigious 8th STARS Award of American Association of Government College of Pharmacy (Bengaluru) Alumni, New York, USA for "Excellence in Academic Research" for the year 2011.
- 50. Dr Udupa also received Talented Scientist Award in recognition of his outstanding contribution in the field of Pharmaceutical Sciences at International level during 3rd International Conference on Medicinal Plants and Herbal Products held at University of Colombo, Sri Lanka during December 19-21, 2011.
- 51. Dr. M.K Unnikrishnan received, Prof. B.M. Mithal Memorial Award for Best Paper published in IJPER 2011.
- 52. S N Manjula, QIP Research Scholar won the Best Poster Award in XLIV IPSCON- 2011 held at Kasturba Medical College, Manipal during December 19-21, 2011
- 53. The poster presented by Ms Sahiti D, Mr Rama Krishna of IV Pharm D students & Dr Ananthan Nagappa Naik, Professor, Department of Pharmacy Management has won the second prize in Community Pharmacy section of FIP 2011 held at Hyderabad during September 3 - 8, 2011.
- 54. Jyothsna M, M Pharm Part II student of MCOPS bagged the third prize at the final of the National Elocution Competition 2011 held during the 63rd Indian Pharmaceutical Congress at Bangalore on December 16, 2011. She also won the first prize in the Manipal University Elocution Competition on the topic,



"Preventing Substance Abuse in the Campus, a Way Forward", held in October 2011. She also secured 14th position in the Pharmacy Talent Search Exam (PTSE) 2011 and qualified for the award of scholarship.

2010:

- 55. Dr. M.K Unnikrishnan received, Visiting Academic: University of Southern Queensland, Toowoomba, Queensland July 29th to September 23rd 2010.
- 56. Dr. M.K Unnikrishnan received, Visiting Scientist: Centre of Contemporary Studies, Indian Institute of Science, Bangalore, June 14th to June 19th, 2010.
- 57. Dr. M.K Unnikrishnan received, 2010 Sri Subbayya Teacher And Research Students (STARS) award for Excellence in Academic Research by Association of the American Govt College of Pharmacy (Bengaluru) Alumni, New York USA.
- 58. Three of our students Mr. Vidhan Chandra Roy, Mr. Upendra Pratap Singh and Mr. P. Vedavyas also attended the 69th International Congress of FIP held at Istanbul from September 03 to September 09, 2009. Mr. Vidhan presented his work that was related to pictograms. This work was appreciated for the publication by Indian Pharmacopoeia Commission is interested to include Mr. Vidhan's work in Indian National Formulary.
- 59. Ms. Shyamali received Prof. M.L. Schroff Medal for having secured the highest grade in the final B.Pharm. Examination held in March 2009. The award was given to her during 62nd Indian Pharmaceutical Congress held in Manipal from December 17-19, 2010. The award includes Medal, Certificate & Cheque.
- 60. Mr. A. Karthik, PhD scholar from Manipal College of Pharmaceutical Sciences, Manipal Received 2010 ADDF Young Investigator scholarship awarded by the Alzheimer's drug discovery foundation, United states. This scholarship was awarded during 4th Drug Discovery Neurodegeneration conference to be held at Houston, Texas on February 1-2, 2010. This scholarship recognizes the early achievements of young investigators.
- 61. Ms.Rama M, Pham.D. (PB) student, Dept of Pharmacy Practice won the best papers award for the paper entitled "Drug Utilization Pattern in Patients with renal Failure in Nephrology Unit of Tertiary care Hospital" in poster category in the Indian Pharmaceutical Association Convention 2010 was held in Chennai at Sri Ramachandra University from March 12-14, 2010.
- 62. First Prize for Poster Presentation at the "National Symposium on Immunology Today-Recent Developments in Health and Disease", under the aegis of Indian



Immunology Society, held at the Department of Studies in Biochemistry, University of Mysore, Manasagangothri, Mysore, November 14th to 15th 2011.

Doctoral / post doctoral fellows 2014

- 63. Ms R Revathi, Dr Suvarna G Kini, Dr K Sreedhara R Pai, Dr G Arun Kumar received "certificate of appreciation" in the category of Health Sciences, at Manipal University. Poster entitled "Design and Development of Novel Piperidone Derivatives as Potential Antitubercular and Anti-HIV Agents". Research Scholar Poster Presentations held on January 3, 2014
- 64. Ms Atulya M, Ms R Revathi R Rajappan and Mr Muthu Kumar A received "Certificate of Appreciation" in connection with the poster presentations held on January 3, 2014 in the category of Health Sciences.
- 65. Mr A Muthukumar Bagged 'Best Presentation Award' for making an oral presentation on 'Fabrication and evaluation of 3D scaffold' at 'Manipal Research Colloquium', Manipal, held on April 11-12, 2014.
- 66. Mr Prateek Jain, was selected to receive a Foreign travel grant from CSIR, New Delhi to attend the 5th FIP Pharmaceutical Sciences World Congress 2014, Australia during April 13 16, 2014.
- 67. Ms Zenab Attari Bagged 'Best Paper Presentation Award' for making an oral presentation on paper entitled 'Enhanced solubility and bioavailability of pioglitazone nanosuspension' at '3rd International Conference NANOCON 014', Pune, held on October 14-15, 2014.
- 68. Mr Ramanath K V & Dr K Sreedhar R Pai received Best Poster award at 3rd International Conference and Exhibition on Pharmacovigilance and Clinical Trails held on October 27-29, 2014 in OMICS groups conferences, Hyderabad.
- 69. Mr Muhammad Mubeen, Dr Suvarna G. Kini, Dr K Sreedhara R Pai received First Prize for poster presentation in the research scholar category entitled "Design, Docking studies, Synthesis and Biological evaluation of benzothiazole derivatives" at 4th National conference of SOBSICON 2014 on Molecular Biology in Diagnosis and Management of Communicable and Non communicable Diseases Held at Yenaoya University, Deralakatte, Mangalore during November 18 20, 2014.
- 70. Ms Pallavi K and Mr Jagani Hitesh Vittalbhai, Research Scholars of MCOPS were selected for the award of "Kundapur Mohan abd Lata Bhandarkar's merit-cummeans scholarship for PhD candidates" for the year 2013-14.



- 71. Mr Prateek Jain, a Research Scholar of MCOPS was selected to receive a travel grant from AMGEN to attend the 2013 AAPS National Biotechnology Conference in San Diego, California during May 20-22, 2013 The travel award consists of \$ 500 00
- 72. Mr Uday Venkat Mateti, Research Scholar of MCOPS was selected as a winner of a "2013 Student Travel Grant" for the ISPOR 18th Annual International Meeting during May 18-22, 2013 in New Orleans, LA USA He was awarded complimentary registration and short courses
- 73. Ms Pallavi K (Research Scholar under Dr Srinivas Mutalik) has received First prize in Poster session during APTI - 18th Annual National Convention, Rajahmundry, AP October 25-27, 2013
- 74. Mr Sai Balaji received Prime Minister's fellowship for Doctoral Research of Rs 45,800/- per month
- 75. Mr Muttu Kumar A, Ms Revathi R Rajappan and Ms Atulya M received a "Certificate of Appreciation" in connection with poster presentation held on 3rd January 2014
- 76. Ms Pallavi K, Mr Jagani Hitesh Vittalbhai have been selected for the award of "Kundapur Mohan and Lata Bhandarkar's merit –cum-means scholarship for PhD candidates" for the year 2013-14.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year 2014: Total 10 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the yearl Dec 2014 in MCOPS, Manipal

Year 2013: Total 17 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the yearl Dec 2013 in MCOPS, Manipal

Year 2012: Total 21 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the yearl Dec 2012 in MCOPS, Manipal

Year 2011: Total 16 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the Year 2011 in MCOPS, Manipal

Year 2010: Total 19 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the Year 2010 in MCOPS, Manipal



10 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the Year 2014 in MCOPS, Manipal

| Sl. | Tout | Date and Europe | Davidiai and a |
|-----|---|--|--|
| # | Topic | Date and Funding agency | Participants |
| 1. | Clinical Skills for Pharm D Students | January 6 - 7, 2014 Forty-four Pharm D students, mostly from Gujarat participated in the seminar in addition to the local participants | Teachers, students |
| 2. | Crusade against neoplasia and challenges in targeting tumor-specific nuclear machinery | January 21 - 23, 2014 AICTE sponsored seminar cum workshop | Teachers, students |
| 3. | Nanomedicines: Risk and Benefit Ratio | Janaury 24 - 25, 2014 AICTE sponsored seminr cum workshop | Teachers, students |
| 4. | Pharmacoeconomics, Outcomes Research and Pharmaceutical care guidelines for India | Febraury 12, 2014 International Society for Pharmacoeconomics and Out Come Research (ISPOR) sponsored National Symposium | Resource persons form industry participated in this event. |
| 5. | National Professor and a former Vice Chancellor of Manipal University Dr M S Valiathan exhorted the postgraduate students and researchers to publish their good work in Indian journals rather than in high-impact international journals | March 12, 2014 15th Annual Postgraduate Pharmacology Lecture Update | Teachers, students |
| 6. | Management of Innovative Drug Development | June 16- 28, 2014 AICTE sponsored 1st Quality Improvement Programme | Pharmacy Teachers |
| 7. | Discovery, Development and Design of Drugs from Nature | July 14 – 26, 2014 AICTE sponsored 2nd Quality Improvement Programme | Pharmacy Teachers |
| 8. | Frontiers in Pharmacology of Drug research & recent trends in Pharmacy Practice | January 5-17, 2015 AICTE sponsored 3rd Quality Improvement Programme | Pharmacy Teachers |
| 9. | Healthy Mother And Happy Child | Nutritional Awareness Event organized by Community Development Committee during September 3 – 4, 2014 | Teachers, students |
| 10. | PharmD-Pedia | September 13, 2014 One day exhibition on PharmD (Doctor of Pharmacy) jointly organized by PharmD students' forum, | Students |



| Manipal and Academic council, | | |
|-------------------------------|------------|--|
| MAPS (Manipal | University | |
| Pharmacy | Students | |
| Association) | | |

17 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the Year 2013 in MCOPS, Manipal :

| Sl. # | Торіс | Date and Funding agency | Participants |
|----------|---|--|--------------------|
| 1 | Manipal IPC Commemoration Symposium 2013 | February 14, 2013, | Teachers, students |
| 2 | Seven experts from industries visit MCOPS to deliver guest lectures : | February 14, 2013, Industry-Institute Interaction at MCOPS | Teachers, students |
| 3 | Leads from Natural and Synthetic Sources | June 3 – 15, 2013 AICTE- sponsored Quality Improvement Programmes | Teachers, students |
| 4 | Biosimilars- Technologies and Prospects | June 17 – 29, 2013 AICTE- sponsored Quality Improvement Programmes | Teachers, students |
| 5. | Production to Prescription – Opportunities for Innovation | July 1 – 13, 2013 AICTE- sponsored Quality Improvement Programmes | Teachers, students |
| 6. | Second Annual Convention of the Consortium of Progressive Indian Pharmaceutical Associations | July 12 – 13, 2013 IPA | Teachers, students |
| 7. | Innovative Drug Delivery Approaches and Regulatory Implications in Cosmeceuticals and Nutraceuticals | August 22 - 24, 2013 ICMR-sponsored three-day Seminar | Teachers, students |
| 8. | Pharmaceutical Regulations in Developing Countries at MCOPS: Faculty Development Programme (FDP) was held at Manipal College of Pharmaceutical Sciences | October 14 – 26, 2013. AICTE-sponsored Faculty Development Programme | Teachers, students |
| 9. | A three-day Entrepreneurship Development Programme | October 21- 23, 2013, Entrepreneurship Development Cell (EDC) | Teachers, students |
| 10. | Industry Institute Interaction | October 24 – 26, 2013 | Teachers, students |



| | | Trademark, Patents and Copyrights. | |
|-----|---|---|--------------------|
| 11. | Food as Medicine | October 26, 2013 Indo- Queensland Biotechnology Project Fund & Department of Pharmacy Practice | Teachers, students |
| 12. | Together We Delve | PharmaQuora November 23 - 24, 2013 | Teachers, students |
| 13. | Nanoparticle Drug Delivery- A more effective therapeutic solution? | December 9 and 11, 2013 Indo-UK Seminar was sponsored by Royal Society- UK and DST- India | Teachers, students |
| 14. | training programme was aimed at apprising the doctoral candidates and research scholars of the various advanced research techniques | between 3 June and 2 July 2013 Summer School for Research Scholars | Teachers, students |
| 15. | Advanced Techniques in Drug Delivery | June 17 – 22, 2013 Dr TMA Pai Endowment Chair of Manipal University | Teachers, students |
| 16. | Nano-based Drug Delivery System | October 15 – 19, 2013, TMA Pai Endowment Chair | Teachers, students |
| 17. | Benefit of M Pharm Regulatory Affairs students | 7th February 2013, Lorenz Life Sciences, India Pvt Ltd, Chennai conducted one-day Workshop | Teachers, students |

21 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the Year 2012 in MCOPS, Manipal

| Sl. # | Торіс | Date and Funding agency | Participants |
|----------|--|---------------------------------|--|
| 1 | Manipal IPC Annual Commemoration Symposium | January 27, 2012 | Dr. B Suresh (President, Pharmacy Council of India and Vice Chancellor of JSS University, Mysore), Dr. MNA Rao (Director, R&D, Divi's Lab, Hyderabad), Mr. Jatish N Shet (Shrishti Labs, Bangalore), Dr. Amit Khanna (Novertis, Hyderabad) and Mr. S G Biligiri, (President, KDPM, Bangalore were the main speakers. |
| 2 | National Seminar by Indian Society of | Indian Society of Nanosciences, | Dr. H Vinod Bhat inaugurated the |



| | Nanosciences | January 27, 2012 | programme in the presence of Mr. M V Kamath (Honorary Director, Manipal Institute of Communication, Manipal), Dr P. Chandra Sharma (Senior Scientist G & Associate Dean – PhD Programme, Sree Chitra Tirunal Institute for Medical Sciences & Technology (SCTIMST), hiruvananthapuram) and Dr. P D Gupta (Adjunct Professor, MCOPS) |
|---|---|--|---|
| 3 | The Annual Industry Institute Interaction of the Industry Institute Partnership Cell (IIPC) | AICTE, New Delhi January 27, 2012 | Resource persons form industry participated in this event. |
| 4 | MCOPS Alumni Meet | MCOPS, January 28, 2012 | the faculty of MCOPS, several outstation alumni |
| 5 | National Seminar by Association of Community Pharmacists of India (ACPI), Association of Practicing Pharmacists and Clinical Pharmacologists (APPCP), and International Society of Pharmacoeconomics and Outcome Research (ISPOR),. | Manipal Chapter January 28, 2012 | Dr. Atmaram Pawar (Vice Principal & Head, Bharati Vidyapeeth University, Poona College of Pharmacy, Pune) and Dr. Arun Garg (General Secretary, IPGA) |
| 6 | 27 th Annual Convention of Indian Pharmacy Graduates' Association on "Future of Pharmacy Professionals: 2020" | Manipal UniversityJanuar y 28-29, 2012 | Dr. K Ram Narayan (Vice Chancellor, Manipal University) inaugurated the convention in the presence of Dr. Arun Garg, Mr. S L Nasa, Dr. B Suresh and Mr. M V Kamath. |
| 7 | The 48 th Annual Conference of Indian Hospital Pharmacists' Association (IHPA) on "Advancing Skills for Future Practice" was held at Manipal College of Pharmaceutical Sciences | Manipal University February 18 – 19, 2012 | The conference was inaugurated by Dr. H Vinod Bhat (Pro-Vice Chancellor, Manipal University), Mr. M V Kamath (Honorary Director, Manipal Institute of Communication), Dr. R R Pulgaonkar (Medical Superintendent, Kasturba Hospital), Mr. S L Nasa |



| | | | (President, IHPA) and Mr. A K Adhikari (Treasurer, | |
|------------------|---|--|---|--|
| 8 | A two-day Annual Convention of Indian Pharmaceutical Association (IPA) theme "Excellence in Pharma Profession." | Manipal Colleg of Pharmaceutical Sciences durir March 17-1 2012 | the Silver Jubilee of IPA Manipal Branch. | |
| 9 | National workshop on "Conducting Population-Based Clinical Outcomes Research" | International Society Pharmacoecono mics ar Outcome Research (ISPOR) India Karnataka chapter. Apr 19, 2012 | in the presence of Dr. N Udupa (Principal, MCOPS). | |
| 10 | Ssymposium on "Infectious Diseases" | ICMR April 21, 2012 | Dr. K Ram Narayan (Vice Chancellor, Manipal University) was the Chief Guest and Dr. Arunachalam Kumar (Dean, KS Hegde Institute of Medical Sciences, Mangalore) was the Guest of Honour. | |
| 11 | 1st Annual Convention of Consortium of Progressive Indian Pharmaceutical Associations of Manipal on "Excellence in Pharma Research, Technology, Profession and Practice" during 7 – 8 July 2012 | | Dr. H Vinod Bhat (Pro Vice Chancellor, Manipal University) inaugurated the convention in the presence of veteran journalist Mr. M V Kamath. The convention was marked by lectures from several eminent resource persons on topics of relevance to pharmacists and their profession. | |
| | QIP and Summer Training Programme at MCOPS | | | |
| 13 (3 QIP) | Two-week long Quality improvement programme | AICTE, New Delhi, 28 May to 8 July 2012. | Pharmacy teachers from different parts of India | |
| 16 | The XI Summer Training programme | May 28, 2012 (1 month) | For postgraduate students, co- ordinated by Dr. P D Gupta and Dr. N Udupa. More than 50 PG students, mainly drawn from | |



| | | T | _ |
|----|---|--------------------|--|
| | | | MCOPS, participated in this |
| | | | month-long course. |
| 17 | National Workshop in PK/PD, "Pharmacokinetic and Pharmacodynamic models: Concepts and applications" | August 23–25, 2012 | Pharmacy teachers of India Research students. The workshop was conducted by Department of Pharmacy Practice, MCOPS, Manipal. |
| 18 | 17 th Annual National | Manipal | The convention attracted |
| 10 | Convention of the | University | pharmacy teachers and |
| | Association of the | October 12 | postgraduate students from |
| | Pharmaceutical | - 14, 2012 | pharmacy colleges across India. |
| | Teachers of India. | 1., 2012 | pharmacy coneges across maia. |
| | "Road map for | | |
| | strengthening Pharma | | |
| | Education in Changing | | |
| | Scenario" | | |
| 19 | 5 th Annual National | Manipal | IAPST is an association that |
| | Convention of Indian | University, | promotes research in |
| | Association of | November | pharmaceutical sciences and |
| | Pharmaceutical | 4, 2012 | technology |
| | Scientists and | | |
| | Technologists (IAPST) | | |
| | "Gateway to | | |
| | Excellence in Pharma | | |
| | Research and | | |
| | Development by 2020". | | |
| 20 | Workshop on Nuclear | November | Teachers and PhD students |
| | Magnetic Resonance: | 26 – 28, | |
| | Concepts & | 2012 | |
| | Interpretation of | | |
| | Spectra | | |
| 21 | 5 th International | Manipal | Biological Scientists from |
| | Conference on | University, | different part of the country |
| | Medicinal Plants and | January 25- | |
| | Herbal Products | 27, 2013. | |

16 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the Year 2011 in MCOPS, Manipal

| Sl No. | Торіс | Date and funding agency | Participants |
|-----------|--|---|--------------------------------|
| 1 | Workshop on "Clinical Pharmacokinetics: Concepts and Applications" | ICMR, New Delhi February 4 - 5, 2011. | Pharmacy teachers and students |
| 2 | Industry Institute Interaction programme | AICTE, New Delhi | Staffs of MCOPS and |



| | | March 11, 2011. | representatives from Industries |
|----|---|---|--|
| 3 | Alumni meet MCOPS, Manipal | March 12, | MCOPS alumni, Dr M N A Rao and Mr Kiran Shankar were the Chief Guests. |
| 4 | 63 rd IPC on in Bangalore | 16 th December 2011 | MCOPS alumni |
| 5 | AAPS Annual Meeting and Exposition held at Washington DC, USA | October 2011. | MCOPS alumni |
| 6 | Alumni Meet of 1979-1983 B Pharm batch: | The alumni Day was celebrated on 10 and 11 December 2011 at MCOPS | Around 40 alumni, many along with their families attended the meet. |
| 7 | The first Manipal IPC Commemoration Symposium, "Pharmaceutical Education and Research". | March 12, 2011 | MCOPS Staff and students |
| 8 | APTI Sponsored workshop on "Training Teachers for Tomorrow's Need | APTI, Bangalore 28 th February to March 12, 2011 | Pharmacy teachers of India |
| 9 | 3 days National Seminar on "Emerging Trends in Nanoparticle Characterization Techniques need for Harmonization | AICTE, New Delhi May 2 - 4, 2011. | Pharmacy teachers and students |
| 10 | Quality Improvement Programmes on "Challenges in Translational Research" | AICTE, New Delhi June 1-14, 2011. | Pharmacy teachers different parts of the country |
| 11 | National Workshop was organized by Association of Community Pharmacists of Indian on | June 11, 2011. | Teachers and students |



| | "Community Pharmacists & Patient Healthcare: an International Perspective" | | |
|----|---|--|--|
| 12 | National Workshop organised by Kautilya's Society for Pharmacoeconomics and Outcomes Research Pharmacoeconomics and Pharmacoeconomics and Pharmacovigilance: Emerging Opportunities in India" | June 12, 2011. | Teachers and students |
| 13 | QIP on "Biologicals: Concepts to Clinic" | AICTE Sponsored held during June 15- 28, 2011 | Pharmacy teachers from different parts of the country |
| 14 | 10 th Summer Training Course on "Scope of Biopharmaceuticals" | Manipal University June 1-30, 2011 | For postgraduate students, coordinated by Dr. P D Gupta and Dr. N Udupa. |
| 15 | Annual Workshop on "Research Methodology and Literature Search" | MCOPS, August 10 – 11, 2011. | For postgraduate students |
| 16 | DST-India and Royal society – UK sponsored India –UK Scientific Seminar scheme on "Biomaterials as Drug Delivery Matrices" | Manipal College of Pharmaceutical Sciences and School of Pharmacy and Biomolecular Sciences, University of Brighton, UK. | Staff and students |

19 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the Year 2010 in MCOPS, Manipal

| SI # | Торіс | Date and funding agency | Participants |
|---------|-------|-------------------------|--------------|
|---------|-------|-------------------------|--------------|



| 1 | Pharmfest 2010" was organized by the Students' Council of the Academic year 2009-10 in association with IPA, IPGA, ACPI and IHPA (Manipal branches) and Manipal College of Pharmaceutical Sciences on | February 7, 2010. The theme of the conference was "Changing face of pharmacy in India - Are we ready? | Students and staff |
|---|---|---|---|
| 2 | A one-day workshop under the aegis of the Industry-Institute Partnership Cell (IIPC) of Manipal College of Pharmaceutical Sciences | AICTE, New Delhi February 26, 2010 | Dr Shibu Chakrabarty (Consultant for formulation R&D), Dr K. G Rajendran (Adjunct Professor, MCOPS), Dr George Patani (Research Director, INGA Laboratory, Mumbai), Dr Sunil Kumar Agarwal (Sandoz) and Mr Dhiraj Chopra (Milipore). And MCOPS Staffs |
| 3 | The 42nd IPC Commemoration Lecture was delivered on | 27 February 2010. | Dr G N Singh, Director, Indian Pharmacopoeial Commission (IPC) was the speaker. Mr S L Nasa (President, Indian Hospital Pharmacists' Association) was the Chairman and Dr Ajit Shirodkar was the Co-Chairman for the session |
| 4 | The Alumni Meet of Manipal College of Pharmaceutical Sciences | in MCOPS on February 27, 2010. | About forty alumni including ten Distinguished Alumni were present on the occasion. Mr Kiran Shankar (Vice President, BPRL) |
| 5 | Staff Development Programme on " Pharmaceutical Regulations in Developing Countries " | AICTE New Delhi March 15-28, 2010 | Pharmacy Teachers from different parts of the India |
| 6 | National Seminar on "Customer Relationship Management in Pharmaceutical Industry | AICTE New Delhi, March 29-31, 2010 | Pharmacy teachers and students |



| 7 | Summer training course in Biopharmaceuticals | Manipal University June 1-30, 2010 | PG students |
|----|--|--|-----------------------------------|
| 8 | Quality Improvement Programme on "Biotechnological products in Cancer therapy-an update" | AICTE New Delhi June 1-14, 2010. | Pharmacy teachers from India |
| 9 | Quality Improvement Programme on " Biotechnological products in Cancer therapy-an update " | AICTE New Delhi, June 15-28, 2010 | Pharmacy teachers from India |
| 10 | one day seminar on "Introduction to Concepts in Rational Drug Use" | Department of Pharmacy Practice, MCOPS, Manipal University and Drug Action Forum–Karnataka (DAF-K), All India Drug Action Network (AIDAN) jointly organized July 20, 2010. | Staff and students |
| 11 | Nobel update | Pharmacy Practice department Jointly Organised on November 27, 2010. | Staff and students |
| 12 | Quality Improvement Programme on " Pharmacists for Better Health: Challenges ahead | AICTE New Delhi December 1-14, 201 | Pharmacy teachers from India |
| 13 | Pre-Congress Workshop to the 62nd IPC "Emerging Trends in Pharmacy Practice" | Indian Hospital Pharmacists Association, New Delhi was held on December 15, 2010 | Pharmacy teachers and students |
| 14 | Workshop on "Research Process and Writing a Scientific Paper" was organized | ICMR, New Delh on December 15-16, 2010 | Staff and students |
| 15 | Alumni Meet | December 16, 2010 | Alumni of MCOPS |
| 16 | 62nd Indian Pharmaceutical Congress | Manipal University December 17-19, | Delegates from all over the world |



| | 2010, was organized | 2010 | |
|-----|-------------------------|-----------------|--------------------|
| | with the theme: | | |
| | Pharmacists for Better | | |
| | Health care on | | |
| 17 | National level | DBT, New Delhi | Staff and students |
| * ′ | symposium: Drug | was held on | |
| | Information services in | December 18-19, | |
| | India | 2010 | |
| 18 | National level | DST, New Delhi | Staff and students |
| | symposium: Application | December 18-19, | |
| | and future prospects of | 2010 | |
| | siRNA | | |
| 19 | National level | CSIR, New Delhi | Staff and students |
| | symposium: | December 18-19, | |
| | Pharmacokinetics and | 2010 | |
| | pharmacodynamics | | |

31. Code of ethics for research followed by the departments

MCOPS has a research committee that meets often to discuss the progress in research. The committee is composed of the following recommendations by the committee and its implementation:

- 1. The Research Committee has stipulated guidelines for screening abstracts submitted to conferences, chiefly for ensuring quality and ethical standards.
- 2. Students should submit manuscripts for scrutiny before submission to journals.
- 3. Periodic workshops are conducted for increasing the awareness among staff and students regarding issues of scientific misconduct.
- 4. Weekly journal club discusses novel ideas and disseminates latest developments in research
- 5. The research committee proactively encourages teachers to submit research proposals to funding agencies regularly. Guidance is provided for novices making an attempt to prepare proposals to various funding agencies.

32. Student profile course-wise:

| Name of the Course | Applications received | Selected | | Pass Pe | rcentage |
|---------------------------|-----------------------|----------|--------|---------|------------------------|
| (refer to question no. 4) | | Male | Female | Male | Female |
| B Pharm (2009-10) | 10935 | 35 | 52 | 95 | 97 |
| Pharm D (2008-09) | 32 | 7 | 22 | | First batch in 2013-14 |
| M Pharm (2011-12) | 2688 | 69 | 58 | 100 | 100 |



| Name of the Course | Applications received | Selected | | Pass Percentage | |
|---------------------------|-----------------------|----------|--------|-----------------|--------|
| (refer to question no. 4) | | Male | Female | Male | Female |
| B Pharm (2010-11) | 7387 | 52 | 49 | 36 | 50 |
| Pharm D (2009-10) | 5910 | 19 | 11 | 16 | 12 |
| M Pharm (2012-13) | 1291 | 69 | 57 | 70 | 53 |

33. Diversity of students : (Year 2012-13)

| Name of the Course (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| B Pharm | | 5 | 85 | 10 |
| M Pharm | 20 | 00 | 75 | 05 |
| Pharm D | | 10 | 75 | 15 |
| Pharm D PB | 05 | 00 | 95 | 00 |

Diversity of students: (Year 2013-14)

| Name of the Course (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| B Pharm | - | 30 | 56 | 14 |
| M Pharm | 21 | 11 | 89 | 0 |
| Pharm D | - | 17 | 76 | 07 |
| Pharm D PB | 33 | 0 | 83 | 17 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give



details category-wise.

GPAT -All India Council for Technical Education, New Delhi conducted the Graduate Pharmacy Aptitude Test (GPAT-), an all India Examination for the admission in Master's Programme in Pharmacy (M. Pharm).

| Year | Number appeared | Number passed | Percentage of pass |
|---------|-----------------|---------------|--------------------|
| 2009-10 | 37 | 27 | 73 |
| 2010-11 | 50 | 45 | 90 |
| 2011-12 | 40 | 35 | 87 |
| 2012-13 | 40 | 27 | 68 |
| 2013-14 | 62 | 28 | 45 |

35. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | 80 |
| PG to M.Phil. | NA |
| PG to Ph.D. | 10 |
| Ph.D. to Post-Doctoral | 5 |
| Employed | |
| Campus selection | 85 |
| Other than campus recruitment | 10 |
| Entrepreneurs | 5 |

36. Diversity of staff

| Percentage of faculty who are graduates | | |
|--|-----|--|
| of the same university | 27% | |
| from other universities within the State | 43% | |
| from universities from other States | 30% | |
| from universities outside the country | - | |



37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period

Ph.D Awarded from 2008 to Dec 2014= **75**

| Sl.No | Name | Sl.No | Name |
|-------|----------------------------|-------|-----------------------------------|
| 1 | Dr G.Subramanian | 41 | Dr S G Vasantharaju |
| 2 | Dr Prabhakar K R | 42 | Dr Virendra S Ligade |
| 3 | Dr M Manjunath Setty | 43 | Dr Aruna Sudheendra Theerthahalli |
| 4 | Dr S Lakshmana Prabhu | 44 | Dr Sivagurunathan |
| 5 | Dr Mahalaxmi R | 45 | Dr Punit Bansal |
| 6 | Dr Vipan Kumar | 46 | Dr Daisy PA |
| 7 | Dr I S R Punitha | 47 | Dr Piya Paul Mudgal |
| 8 | Dr Jimmy Jose | 48 | Dr S D Vachala |
| 9 | Dr H N Aswathram | 49 | Dr Anup Naha |
| 10 | Dr Anshu Rathi | 50 | Dr. Salimullah Khan |
| 11 | Dr Narayana Swamy | 51 | Dr. M. Naseer |
| 12 | Dr Richard Lobo | 52 | Dr. Faizal P |
| 13 | Dr Manthan D Janodia | 53 | Dr. Aravind Kumar |
| 14 | Dr Kishore Gnan Sam | 54 | Dr. Prapul Deshpande |
| 15 | Dr Dinesh Kumar C | 55 | Dr. Leelavathy Acharya |
| 16 | Dr Sudheer Moorkoth | 56 | Dr. TNV Ganesh |
| 17 | Dr Alex Joseph | 57 | Dr Jayesh Mudgal |
| 18 | Dr Ranjith Kumar A | 58 | Dr Anoop Kishore |
| 19 | Dr Prashant B Musmade | 59 | Dr Rajesh |
| 20 | Dr D Sreedhar | 60 | Dr. Sidharth Sankar Kar |
| 21 | Dr Usha Yogendra Nayak | 61 | Dr. Nitesh Kumar |
| 22 | Dr Machender Reddy Kandadi | 62 | Dr. V. Rajesh |
| 23 | Dr S N Manjula | 63 | Dr. Girish Thunga |
| 24 | Dr Kirthi S Prabhu | 64 | Dr. Syed Sajjad Hussen |
| 25 | Dr Alok Sharma | 65 | Dr. Kranthi Prashanth Musmade |



| 26 | Dr S A Manohar Reddy | 66 | Dr. Om Prakash Ranjan |
|----|--------------------------|----|--------------------------|
| 27 | Dr D Vijay Kumar | 67 | Dr. Dhirendra B. Sanghai |
| 28 | Dr Rekha R Shenoy | 68 | Dr. R.S. Jeyaprakash |
| 29 | Dr Jesil Mathew | 69 | Dr. Vijayanarayana K |
| 30 | Dr G Dayanand Reddy | 70 | Dr. Anil T M |
| 31 | Dr Shiram M Pathak | 71 | Dr Atulya M |
| 33 | Dr Sreedharan | 72 | Dr Geetha Mathew |
| 34 | Dr Karthik A | 73 | Dr K Vijaya Bhaskar |
| 35 | Dr P Vasanth Raj | 74 | Dr K Narayanan |
| 36 | Dr Gopal Shavi | 75 | Dr Vamshi Krishna T |
| 37 | Dr Bhide Prashant Jivaji | | |
| 38 | Dr Thiyagu R | | |
| 39 | Dr Ajay G Pise | | |
| 40 | Dr Yogendra Nayak | | |
| 41 | Dr Surulivel Rajan | | |

38. Present details of infrastructural facilities with regard to

- a) Library: The library operates on online public access catalogue and provides weblinks to online subscriptions such as Science Direct, Proquest, Bentham, Delnet, Inflibnet etc. The archives consist of bound volumes of the bulk of high impact journals. Libraries are equipped with reading rooms and is kept open 365 days of the year till 10.30 PM. Several crores were spent on journal subscriptions. A WiFi enabled internet connection enhances utilization of laptops. The university has provided excellent infrastructure to the libraries and created a conducive environment for students to sit and read various books and journals. The university has ensured that there are sufficient copies of books available in the library. Most of the online journals are available on the intranet of the university.
- b) Internet facilities for staff and students: Every faculty member of the department is provided with a laptop and round the clock internet access. Besides, a state-of-art computer lab with a sitting capacity of 40 has been built in the college for all the needs of the faculty and students. Apart from that, each department has got around 12 desktops with internet access for the PG and research needs.
- c) Total number of class rooms: UG: 10. Lecture halls are acoustically designed with built in audio-visual units. The Interact hall complex has adequate facility for holding conferences and seminars.



- d) Class rooms with ICT facility: MCOPS has provided a laptop to every faculty member with adequate training for the effective use of these tools. The university encourages faculty to use various audio-visual aids during lectures. All lecturer halls are provided with fixed LCD projectors with good acoustics in order to enhance teaching-learning experience of the students.
- e) Students' laboratories: Well-equipped laboratories have been built for the needs of students at UG and PG level separately. Every student gets sufficient space and equipment to perform experiments individually. Trained technicians assist the students for proper utilization of these facilities.
- f) Research laboratories: esearch laboratories are well-equipped with state-of-art instruments which are periodically calibrated and maintained under the supervision of TBS India Telematic and Biomedical Services Pvt. Ltd. (http://www.tbs-india.com).
- 39. List of doctoral, post-doctoral students and Research Associates: Ph D students
- a) from the host university (Manipal University)

| S1 # | Name | Department |
|------|---|---------------------|
| 1. | Mr Pawan G Nayak | Pharmacology |
| 2. | Ms Sukriti Nigam (MU) | Pharm Chemistry |
| 3. | Mr Reddy Neetinkumar (SERB-DST) | Pharmacology |
| 4. | Mr Jagani Hitesh Vitthal (CSIR) | Pharm Biotechnology |
| 5. | Mr Asim Priyendu (CSIR) | Pharmacy Management |
| 6. | Mr Devkar Raviraj Anand (INSPIRE) | Pharmacognosy |
| 7. | Ms Shilpee (MU) | Pharmacology |
| 8. | Ms Zenab Attari (MU) | Pharmacology |
| 9. | Mr Uday Venkat Mateti (MU) | Pharmacy Practice |
| 10. | Mr Grandhi V Ramalingayya (MU) | Pharmacology |
| 11. | Mr Mradul Tiwari (MU) | Pharm Biotechnology |
| 12. | Mr Prateek Jain (INSPIRE) | Pharm Biotechnology |
| 13. | Mr Deepak Bhere (MoU) | Pharmacology |
| 14. | Mr Magith Thambi (Dr TMA PAI Endowment Chair - Dr Unnikrishnan | Pharmacy Practice |
| 15. | Ms Bhavana B Bhat (MU) | Pharmacy Management |
| 16. | Ms Nimmy Kumar (SERB) | Pharmacognosy |
| 17. | Mr Anuraag Muralidharan (INSPIRE) | Pharm Biotechnology |



| 18. | Mr Karthik Gourishetti (DST) | Pharmacology |
|-----|------------------------------------|---------------------|
| 19. | Ms Aswathi Hegde (BIRAC) | Pharmaceutics |
| 20. | Mr Subhankar Biswas (MU PhD) | Pharmacology |
| 21. | Ms Sanchari Basu Mallik (MU PhD) | Pharmacology |
| 22. | Ms Varsha Prabhu (MU PhD) | Pharmacy Practice |
| 23. | Ms Jyothsna M (ICMR) | Pharmaceutics |
| 24. | Mr Vivek Ghate M (MU PhD) | Pharmaceutics |
| 25. | Ms Elizabeth Mary Mathew (MU PhD) | Pharm Q A |
| 26. | Mr Aditya Kiran G (DBT) | Pharm Biotechnology |
| 27. | Mr Ashutosh Prasad Tiwari (MU PhD) | Pharm Chemistry |

b) from other universities :

| S1 # | Name | Department |
|------|--|--------------------------|
| 28. | Muhammad Mubeen (QIP) | Pharm Chemistry |
| 29. | Mr H V Keerthi Prashanth (QIP) | Pharmacology |
| 30. | Mr Rupesh K Shirodkar (QIP) | Pharmaceutics |
| 31. | Ms Pallavi K (DBT) | Pharmaceutics |
| 32. | Mr Chethan G H (DBT) | Technical Assistant |
| 33. | Ms Shoja M H (DST-INSPIRE) | Pharmacology |
| 34. | Ms Cinu Thomas A (QIP) | Pharm Chemistry |
| 35. | Mr A Muthu Kumar (MU) | Pharmaceutics |
| 36. | Mr S Ayyadurai (QIP) | Pharm Biotechnology |
| 37. | Ms R Revathi(MU) | Pharm Chemistery |
| 38. | Mr Chandra Sekhar Misra (DBT) | Pharmacology |
| 39. | Mr K V Ramanath (QIP) | Pharmacy Practice |
| 40. | Mr Kiran Avadhani (Queensland University | Pharmaceutics |
| 41. | Ms Seena K X (QIP) | Pharmacognosy |
| 42. | Mr Amol Baban Khade (QIP) | Pharmaceutical Chemistry |
| 43. | Mr Alkesh Kumar Lokhande(QIP) | Pharmacy Practice |
| 44. | Ms Chonkar Ankita Deepak (Dr TMA | Pharmaceutics |



| | Pai Endowment Chair) | |
|-----|--|---------------------|
| 45. | Ms Renuka Suresh Managuli (DST-INSPIRE) | Pharmaceutics |
| 46. | Ms Bhavana B Bhat (MU) | Pharmacy Management |
| 47. | Ms Akhila HS (DST-INSPIRE) | Pharmacy Practice |
| 48. | Mr P Picheswara Rao (Dr TMA Pai Endowment Chair) | Pharmacology |
| 49. | Ms Lavanya Kondapalli (DST) | Pharmaceutics |
| 50. | Ms Aarti Abhishek Shah (MU PhD) | Pharmacology |
| 51. | Mr Abhishek Shah (MU PhD) | Pharmcognosy |

40. Number of post graduate students getting financial assistance from the university.

- Five students (financial assistance to attend conferences)
- 210 students (Received Rs.10,000/- each as fee waiver)
- 210 students (contingency grant of Rs.8,000/- each for their dissertation work)

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Need assessment is a major driver of the curriculum. Whenever special areas are identified, special programmes are conducted for developing specialized curricular needs. For instance, Pharmacokinetics /Pharmacometrics, which was recently identified as a major curricular need by the department of Pharmacy Practice, was the subject of a full-fledged CPE conducted for the benefit of students

42. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. Regular meetings are conducted, in which the curriculum is a major topic of discussion. Teaching -learning- evaluation parameters are calibrated periodically against standards and goals set by departments.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, Students evaluate teachers every year based on set parameters in an objective fashion. The feedback obtained is critical for annual performance appraisal of teachers. Variable pay incentives are partly dependent on student evaluation of teachers. The "Good Teacher Award" instituted by the college is a major motivating force for constant improvement.

c. alumni and employers on the programmes offered and how does the



department utilize the feedback?

Yes. Through Alumni Cell and annual alumni meets, feedback regarding the syllabus and the curriculum content are taken. All these feedbacks are reviewed in an objective manner and required changes are incorporated through discussion at various levels.

43. List the distinguished alumni of the department (maximum 10)

| Sl.No | Name | Position |
|-------|----------------------------------|---|
| 1 | Padmashree B.R.Shetty | CEO-New Medical center, Abu Dhabi, UAE |
| 2 | Padmashree Girish Kasaravalli | Renowed film maker and swarna kamal awardee |
| 3 | Dr. Murali K Divi | Managing Director, DIVIs Laboratories, Hyderabad |
| 4 | Dr. Sreejayan Nair | Director, Biomedical Sciences PhD Program, Director, Center for Cardiovascular Research and Alternative Medicine (C-CRAM) University of Wyoming, Laramie, USA |
| 5 | Mr. V Brahmaji | Managing Director, Halls Drugs, Chain of Pharmacies NJ USA |
| 6 | Mr. Ramprasad | Vice President-Global operations, Mylan, USA |
| 7 | Dr. Bobby George | Vice President, Reliance clinical research, Mumbai |
| 8 | Dr. George Pathani | Director, Inga Laboratories, Mumbai |
| 9 | Dr. A Raja Naresh | Head, International Marketing-UK, Orchid Pharma, India |
| 10 | Dr. Siddarth Sarma | Associate Professor, Dept. Molecular BioPhysics, IISc, Bangalore |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.



MCOPS has a reputation for conducting the maximum student enrichment programmes in the campus. For instance, the current academic year has already witnessed more than four Conferences, QIP programmes. MCOPS is AICTE approved center for QIP, three QIP programmes of 15 days duration each are conducted annually on a regular basis. Besides, the institution has conducted several invited lectures, Workshops, Radio talks, in addition to cultural programmes, sporting events, athletic meets, alumni reunion etc. (Refer Q, No 30 for details)

Year 2014: Total 10 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the yearl Dec 2014 in MCOPS, Manipal

Year 2013: Total 17 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the yearl Dec 2013 in MCOPS, Manipal

Year 2012: Total 21 Workshops / Seminars/ Conferences/ Alumni Meet were conducted during the yearl Dec 2012 in MCOPS, Manipal

45. List the teaching methods adopted by the faculty for different programmes.

Didactic Lectures, Laboratory based Practical experiments, Case Studies, Seminars, Group Discussions, CPE, Quality Improvement Programmes, Research Projects, Fieldwork (Eg. Interacting with patients, pharmacies, health care workers, Interviewing Eminent visitors) Journal clubs, Discussion groups, Written Assignments, Literature Search exercises and preparing Reviews, Quizzes, Preparing Instructional materials (Eg. Posters, Patient Information Leaflets, Power point presentations, Lab manuals) Editorial assignments related to Student Newsletters, Proofreading, Composing, Layout designs, etc.,

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

MCOPS is an ISO certified ISO 9001:2008 and ISO 14001:2004 institution. Thus, the QMS of the ISO ensure that programme objectives are met through checks and balances

47. Highlight the participation of students and faculty in extension activities.

The Association of Community Pharmacist of India www.acpi.in is a national association involving in promotion of pharmacist in the public health. The pharmacist globally well recognized as health care professional involving in patient safety and ensuring efficacy of treatment. However in India, pharmacists are not participating in health care delivery. There role is mainly restricted to Industrial pharmacy and dispensing of medicine. There is need to encourage wide spread participation of pharmacist in health care activities. Association of community pharmacist of India has conducted fallowing programs involving the student's voluntary participation. Community care in the matter of Diabetes, Hypertension and Obesity from year 2008



onwards every year. Pharmaceutical care program for Diabetes Mellitus for 150 patients, Patient education program in disease, Public lectures, Pulse Polio, Eradication of filarial by distribution of CBZ tablets, Monthly check up for Hypertension for staff and students of MCOPS

Kuatilya's Society for Pharmacoeconomic and outcome research: This is a national professional body involved in promotion of research activities in the area pharmacoeconomic and outcome research. Pharmacoeconomic and outcome research is fundamental to evaluate the therapeutics not only from the point of expenditure and patient comfort. There is need to evaluate and document value of all the treatments. KSPOR is an affiliate to ISPOR international and involved in conducting the research in the area of Cancer, Rheumatoid Arthritis, Cardiovascular conditions, Infectious disease and HIV.

The ISPOR student chapter was declared as one of the best student chapter by ISPOR international as one best student chapter for 2012. ISPOR India is involved in promoting research and student leadership development. Mr. Deshpande, Prof A N Nagappa, Dr N. Udupa, Mr. T M Anil Mr. Pradeep Murgundi has participated and presented research papers in the ISPOR Scientific meetings held in Phuket, Mexico, Madrid, Washington and Taipie. ISPOR student chapter is involved in social work and blood donation camp.

48. Give details of "beyond syllabus scholarly activities" of the department.

Journal Club, Summer School, I2C (Innovate to communicate club), annual Nobel update, Pharmacology lecture update, CPE, IPC Commemoration annual symposium, Industry Institute Interaction Programme, Pharmfest, Pharmacy quiz etc

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI) and ISO 9001 and 14001 by TUV Rheinland

Manipal College of Pharmaceutical Sciences provides pharmaceutical education leading **Undergraduate** degree (B.Pharmacy) **Postgraduate** (M.Pharmacy), Doctor of Pharmacy (Pharm D), Pharm D Post Baccalaureate. All includes Research activities (PhD).

- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
 - Published over 1000 peer reviewed articles in reputed national and international journals of high impact
 - Produced over 100 doctorates
 - Published over 10 books and contributed chapters



• Publishing journals (Pharmag, International Journal of Community Pharmacy and International Journal Hospital Pharmacy)

Eight patents

- 1. An improved process for the preparation of flavonoids from ocimum sanctum (Krishna Tulsi) (Pathirisseri Umadevi, Adikesayan Ganasoundari and Keloth Kaitheri Srinivasan - Document No. 184300)
- 2. "Transdermal drug delivery device containing oral antidiabetic drug" (Product patent) document No. 207023)
- 3. "Biodegradable polymeric composition for the treatment of diabetes mellitus (Product patent) (patent No. 214342)"
- 4. "Mucoadhesive Buccal Composition containing nicotine useful for smoking cessation and a process for its preparation" (221428 23-06-2008)
- 5. "Bioadhesive drug delivery system containing parasympathomimetic agent for the treatment of xerostomia" (Patent No. 222658 dated 20-08-2008)
- 6. Pharmaceutical composition useful for the treatment of diseases caused by viruses and a process for its preparation(Patent No. 222692 dated 23-06-2008)"
- 7. "Biodegradable polymeric composition useful in the treatment of periodontitis" (Patent No. 223664 dated 19/09/2008)
- 8. "Biodegradable polymeric monolithic film useful for the restoration of the periodontium (Patent No. 223665 dated 19/09/2008)".

Patents Filed

- 1. Herbal Composition for improving anticancer activity, anti-inflammatory activity and protecting body from oxidative damage and the method of preparing the same.
- 2. Anti-inflammatory and analgesic activities of a non-ulcerogenic Novel synthetic molecule: 2-(4, 6-dihydroxy-2-mercaptophrindin-5-yl-)-2-hydroxy-1H-1dene-1,3 (2H)-Dione (DMPI) (2300/CHE/2010 dated 11-08-2010).
- 3. Antiinflammatory and analgesic activities of a non-ulcerogenic novel synthetic molecule: 2(4, 6-dihydroxy-2-mercaptophrinidin-5-yl) -2-hydroxy-1H-1dene-1,3(2H)-dione (DMPI).
- 4. Timed-release compression-coated tablet composition for chronotherapy of hypertension.
- 5. "A Novel targeted Drug Delivery Sytem for Revastigmine in Liposomes and Nano Particles Forms For The Treatment Of Alzheimer's Disease" (Patent Application # 2541/DEL/2011 dated 5.9.2011)

Other achivements:



- Iontophoresis for diagnosis of cystic fibrosis
- Laid the foundation for BA/BE studies at MCOPS which eventually lead into a clinical research organization (Acunova)
- Herbal Mouth Wash formulation was developed and sold to a pharmaceutical company (WINTAC)
- DHPO, an experimental AMPK activator is listed in Merk Catalogue as laboratory probe
- Simple method of estimation of Insulin by HPLC
- Successfully conducted Indian Pharmaceutical Congress three times (1971, 1990 and 2010) and provided a platform for scientific knowledge transfer.
- Contributed to scientific services

51. Future plans of the department.

- To develop a small scale manufacturing unit for herbal formulations
- To develop self-sustaining cGMP pilot plant
- To expand scope of clinical research with overseas collaborations
- To develop center of excellence for research in cytokine related disorders
- To develop new molecules for tropical/rare and orphan diseases
- To strengthen the research endeavors in microbial origin drug discoveries and cell based therapies
- To offer end to end analytical solution to small scale pharmaceutical industry
- strengthen consultancy services in pharmaceutical marketing and administration

52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- 1) Rank: Ranked number one among private institutes
- 2) Campus: Residential Campus with multicultural cosmopolitan outlook.
- 3) Infrastructure: State-of-the-art facilities for teaching and learning.
- 4) Faculty: Experienced, well qualified and dedicated.
- 5) Research: Strong research background with excellent publication history
- 6) Alumni: Support from strong alumni worldwide

Weaknesses

EVALUATIVE REPORT OF THE DEPARTMENT



- 1) Regulatory restrictions are taking away the academic freedom.
- 2) Geographical isolation: Far from pharmaceutical industry and other related industries; hence suboptimal placement.
- 3) Dichotomy in regulatory control (AICTE and PCI).
- 4) Funding from the government organizations is limited.

Opportunities

- 1) To become number one college amongst all pharmacy colleges in India.
- 2) Interdisciplinary and integrated research to facilitate drug discovery and development, patent and commercialize.
- 3) To improve quality of the students.
- 4) Consultancy services
- 5) To establish a chair

Challenges

- 1) Stay in the number one position.
- 2) To fight against unhealthy competition from mushrooming pharmacy colleges.
- 3) To attract global talent.
- 4) To affiliate with globally reputed universities.
- 5) To commercialize the technologies/new molecules developed.



ANNEXURE NO. HS 1

Manipal University Admissions 2013 - Courses offered

| Institution / Department | Courses | Eligibility |
|---|---|--|
| | M Sc Physics (Photonics) | Candidates must have passed Bachelors degree with a minimum of 55% marks in any of the following areas •B.Sc. in Physics •B.Tech. in Electronics/Electrical/Material Science/ Applied Physics. |
| Department of Atomic and | M Sc Physics (Nanoscience & Technology) | Candidate must have passed Bachelors Degree with a minimum of 55% marks in any of the following areas |
| Molecular Physics, Manipal | MSc Biophysics | B.Sc. in Physics B.Tech. in Chemical Engineering/Biomedical Engineering, Material Science/Applied Physics. |
| | PG Diploma in Photonics | The candidate must have passed MSc in Physics/Applied Physics/Masters in any area of physical sciences or BE / BTech / MTech (Applied Physics) with a minimum of 50% marks in aggregate. |
| | M Sc Chemistry | The candidate must have passed B Sc with Chemistry as major subject with a minimum of 50% marks in aggregate. |
| Department of Sciences, Manipal | M Sc Applied Mathematics & Computing | The candidate must have passed B Sc with Mathematics as major subject with a minimum of 50% marks in aggregate. |
| | M Sc Physics | The candidate must have passed B Sc with Physics as major subject with a minimum of 50% marks in aggregate. |
| Department of Advanced Pharmaceutical Sciences, Manipal | M Sc in Advanced Pharmaceutical Sciences | B Pharm from an institution approved by the Pharmacy council of India with minimum of 50% marks in aggregate. |
| Department of Commerce, Manipal | BBM e-Banking & Finance BBM Financial Markets BBM Professional BBM Logistics & Supply Chain | Pass in 10+2, A Level, IB, American 12th grade or equivalent with a minimum of 50% marks in aggregate. |
| | M Com Logistics & Supply Chain | The candidate must have a bachelor's degree in Management or Commerce from a recognized university. They should have secured not less than 50% marks in aggregate. |



| Department of Geopolitics & International Relations, Manipal | MA Geopolitics and International Relations | The candidate must have a Bachelors Degree in any discipline from a recognized University with minimum of 50% marks in aggregate. |
|--|--|--|
| | MA in National Security Studies | The candidate must have a Bachelors Degree in any discipline from a recognized University with minimum of 50% marks in aggregate. |
| | Post Graduate Diploma in Gandhian & Peace Studies | Any graduate with Arts/Science/Commerce with a minimum of 50% marks aggregate. Candidates who are willing to do full-time course as well as part-time (by choosing a particular module of one's own interest) are eligible to apply for the course. |
| Department of Public Health, Manipal | Masters in Public Health | The candidate must have a Bachelors degree in Medicine, Dentistry, Nursing, Allied Health, Life Science from a recognized University with a minimum of 60% marks in aggregate. |
| | Masters in Social Work | The candidate must have a Bachelors degree in any discipline from a recognized university with a minimum of 50% marks in aggregate. |
| | Master in Hospital Administration | The candidate must have a bachelor's degree in MBBS / BDS / BAMS / BHMS / BNYS / BPT/B Sc Nursing (Basic or Post Basic) /B Pharm / B Sc in Allied Health Sciences /Bachelor degree in Arts / Commerce /Science / Law from a recognized university with a minimum of 50% marks in aggregate. |
| | Certificate Course in Public Health | Candidates must have passed bachelors degree in any Health Sciences subject |
| | Certificate Course in Global Health | including Medicine, Dental Sciences, Nursing, Allied Health Sciences, Life Sciences and mainstream Science graduates are also eligible. |
| Department of Statistics, Manipal | Certificate Course in Biostatistics, Epidemiology & Research Methodology | The candidates must have passed graduation in health science professional courses (MBBS, BPT, BASLP, B Pharm, B Sc Nursing etc) or post graduation in health science related non professional courses (M Sc Anatomy, Physiology, Biochemistry etc) or students doing their internship after completion of undergraduate course work. |
| | M Sc Biostatistics | The candidates must have passed B Sc Statistics/B Sc Mathematics or BE/B Tech or BCA/B Sc Computer Science or any other graduation having minimum 2 years learning of Mathematics and Statistics with a minimum of 50% marks in aggregate. |



| | I | 1 |
|-----------------------|---|--|
| | Bachelor of Audiology & Speech Language Pathology | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry and English with Biology or Mathematics as optional subjects with a minimum of 45% marks taken together in Physics, Chemistry and any one of the optional subjects. |
| | Bachelor of Medicine & Surgery | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English with a minimum of 55% marks in Physics, Chemistry and Biology taken together. DATE OF BIRTH: Should fall on or before 31.12.96 |
| | Bachelor of Physiotherapy | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Biology with a minimum of 45% marks taken together in Physics, Chemistry and Biology. |
| | B Sc Medical Radiotherapy Technology | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Mathematics with a minimum of 45% marks in Physics, Chemistry and Mathematics taken together. |
| | DNB Urology | The candidates must have passed MS General Surgery. |
| | DNB | The candidates must have passed MD |
| Kasturba Medical | Gastroenterology | General Medicine. |
| College, Mangalore | DNB Psychiatry Primary | The candidates must have passed MBBS. |
| | DNB Psychiatry Secondary | The candidates must have passed MBBS and DPM. |
| | Master of Audiology & Speech Language Pathology | The candidates must have passed BSLH/BASLP from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013 |
| | MD Anaesthesiology MD Anatomy MD Biochemistry | Pass in MBBS degree recognized by Medical Council of India. |
| | MD Brochemstry MD Dermatology MD General Medicine MD Microbiology | INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible. |
| | MD Paediatrics MD Pathology MD Pharmacology MD Physiology | Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year. |
| | MD Radio-diagnosis MS General Surgery MS Obstetrics & Gynaecology | REGISTRATION: Candidates should have obtained permanent registration with Medical Council or any of the State Medical Council or should obtain the same within one month |
| | MS Ophthalmology | from the date of admission. |



| | MC Outle and die | |
|------------------|-----------------------------|---|
| | MS Orthopaedic | |
| | Surgery | |
| | MS | |
| | Otorhinolaryngology | |
| | PG Diploma – | |
| | Anaesthesiology | |
| | PG Diploma – Child | |
| | Health | |
| | PG Diploma – | |
| | Clinical Pathology | |
| | PG Diploma – | |
| | Dermatology | |
| | PG Diploma – | |
| | Obstetrics & | |
| | Gyaenocology | |
| | PG Diploma – | |
| | Ophthalmology | |
| | PG Diploma – | |
| | Orthopaedics | |
| | PG Diploma – | |
| | Otorhinolaryngology | |
| | MPT Cardio- | |
| | pulmonary Sciences | The candidates must have passed BPT from a |
| | MPT Community | recognized University with a minimum of |
| | Based Rehabilitation | 50% marks in aggregate. |
| | MPT Neurosciences | INTERNSHIP: Completed or completing |
| | MPT Orthopaedics | their compulsory internship on or before |
| | MPT Paediatrics | 15.08.2013 |
| | Physiotherapy | 13.00.2013 |
| | M Sc Medical – | The candidate must have passed B Sc with at |
| | | least one subject of Biological Sciences or |
| | Anatomy M Sc Medical – | BAMS or MBBS or BHMS or BPT or B |
| | | Pharm or any other professional graduates |
| | Biochemistry M.S.a. Madical | from a recognized University. B Sc graduates |
| | M Sc Medical – | with Physics and Chemistry optionals, could |
| | Microbiology M.S.a. Madical | be considered for admission to M Sc |
| | M Sc Medical – | Biochemistry course. |
| | Pharmacology | Candidates must have obtained not less than |
| | M Sc Medical – | 50% marks in aggregate at the qualifying |
| | Physiology | examination. |
| | | Pass in 10+2, A Level, IB, American 12th |
| | | grade or equivalent with Physics, Chemistry, |
| | Bachelor of Medicine | Biology and English with a minimum of 55% |
| | & Surgery | marks in Physics, Chemistry and Biology |
| | & surgery | , |
| Vootumbo Madiaal | | |
| Kasturba Medical | DM Condinter | Should fall on or before 31.12.96 |
| College, Manipal | DM Navyala av | MD in General Medicine or Paediatrics from |
| | DM Control of the land | a college recognized by the Medical Council |
| | DM Gastroentrology | of India. |
| | DM Nephrology | Permanent registration with Medical Council of India. |
| | 1 0, | |
| | M Ch Cardiothoracic | MS in General Surgery from a college |



| | Curgory | recognized by the Medical Council of India |
|----------|------------------------------|--|
| - | Surgery M.Ch. Nouro Surgery | recognized by the Medical Council of India. Permanent registration with Medical Council |
| - | M Ch Neuro Surgery | of India. |
| | M Ch Paediatric | of filula. |
| - | Surgery | |
| - | M Ch Urology | |
| - | MD Anaesthesiology | |
| | MD Anatomy | |
| | MD Biochemistry | |
| | MD Community | |
| | Medicine | |
| | MD Dermatology | |
| | MD Forensic | |
| | Medicine | |
| | MD General | |
| | Medicine | |
| | MD Hospital | |
| <u> </u> | Administration | |
| <u> </u> | MD Microbiology | |
| <u> </u> | MD Paediatrics | |
| | MD Pathology | |
| | MD Pharmacology | Dogg in MDDC dogges managized by Medical |
| | MD Physiology | Pass in MBBS degree recognized by Medical Council of India. |
| | MD Psychiatry | Council of india. |
| | MD Radio-diagnosis | INTERNSUID: Condidates completing their |
| | MD Radio-therapy | INTERNSHIP: Candidates completing their |
| | MD Pulmonary | compulsory rotating internship on or before 30.04.2013 are eligible. |
| | Medicine | 30.04.2013 are engine. |
| | MD | Candidates completing internship after |
| | (Immunohematology | 30.04.2013 are not eligible for admission in |
| | & Blood Transfusion) | this academic year. |
| | MS General Surgery | tins academic year. |
| | MS Obstetrics & | REGISTRATION: Candidates should have |
| | Gynaecology | obtained permanent registration with Medical |
| Ţ | MS Ophthalmology | Council or any of the State Medical Council |
| Ī | MS Orthopaedic | or should obtain the same within one month |
| | Surgery | from the date of admission. |
| Ī | MS | 1 on the date of administration |
| | Otorhinolaryngology | |
| ļ | PG Diploma – | |
| | Anaesthesiology | |
| ļ | PG Diploma – Child | |
| | Health | |
| ļ | PG Diploma – | |
| | Clinical Pathology | |
| ļ | PG Diploma – | |
| | Dermatology | |
| ļ | PG Diploma – | |
| | Obstetrics & | |
| | Gyaenocology | |
| | PG Diploma – | |
| | Ophthalmology | |
| ļ | PG Diploma – | |
| | | |



| Orthopaedics | |
|---|--|
| PG Diploma – | |
| _ | |
| Otorhinolaryngology PG Diploma – | |
| ± | |
| Psychiatry Parking | |
| PG Diploma – Radio- | |
| diagnosis | |
| M Phil Psychiatric Social Work | The candidates must have passed full time MSW (Social Work) from a recognized University with a minimum of 55% marks in aggregate of the Masters Degree course as a whole. |
| M Sc Medical – | The candidate must have passed B Sc with at |
| Anatomy | least one subject of Biological Sciences or |
| M Sc Medical – | BAMS or MBBS or BHMS or BPT or BP |
| Biochemistry | harm or any other professional graduates |
| M Sc Medical – | from a recognized University. B Sc graduates |
| Microbiology | with Physics and Chemistry optionals, could |
| M Sc Medical – | be considered for admission to M Sc |
| Pharmacology | Biochemistry course. |
| M Sc Medical – Physiology | Candidates must have obtained not less than 50% marks in aggregate at the qualifying examination. |
| M Sc Medical – Clinical Embryology | The candidates who have completed their B Sc with Reproduction, Zoology, Microbiology, Biochemistry, Biotechnology, Bioscience or Physiology as one of the subjects are eligible. Candidates must have obtained not less than 60% marks in aggregate at the qualifying examination. |
| M Sc Yoga Therapy | Graduates in any discipline are eligible. Candidates must have obtained not less than 50% marks in aggregate at the qualifying examination. |
| Post Graduate Certificate Course in Panchakarma | Candidates must have a bachelor's degree in Ayurveda from a recognized university and completed the compulsory rotatory internship. |
| Fellowship in Clinical Genetics | Pass in Post Graduate Degree (MD /MS/DNB) in Paediatrics/Medicine/Obstetrics & Gynaecology. |
| Fellowship in | Pass in Post Graduate Degree (MD/DNB) in |
| Neonatology | Paediatrics. |
| Fellowship in | Pass in Post Graduate Degree (MD General |
| Diabetes | medicine) or equivalent. |



| | | The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate. |
|--|---|--|
| School of Information Science, Manipal | M Sc Tech (Embedded Systems) | BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (Embedded Systems) Lateral Entry. |
| | M Sc Tech (Medical Software) | The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (Medical Software) Lateral Entry. |
| | | The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate. |
| | M Sc Tech (VLSI Design) | BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics or any other relevant branches of Engineering degree for those seeking admission to M Sc Tech (VLSI Design) Lateral Entry. |
| | M Sc Tech (VLSI System Design & Verification) - Whizchip | The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate. BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics or any other relevant branches of Engineering degree for those seeking admission to M Sc Tech (VLSI System Design & Verification) Lateral Entry. |
| | M Sc Tech (IT Management) | The candidate must have passed BE/B Tech in any branch of Engineering with a minimum of 50% marks in aggregate. |



| M Sc Tech (Computing Technology & Virtualization) | The candidate must have passed BSc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate. BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those |
|---|---|
| | Instrumentation Engineering for those seeking admission to M Sc Tech (Computing Technologies & Virtualization) Lateral Entry. |
| | The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate. |
| M Sc Tech (Embedded Systems and Wireless Technology) | BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (Embedded Systems and Wireless Technology) Lateral Entry. |
| | The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate. |
| M Sc Tech (High Perfomance Computing) | BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (High Performance Computing) Lateral Entry. |
| Dual Degree – M Sc Tech (Embedded Systems & Instrumentation) ESIGELEC | Candidates must have passed BE/B Tech in Computer Science, Electronics & Communication, Electrical & Electronics, Information Science, Bio medical Engineering, Instrumentation or any other relevant branches in Engineering with a minimum of 55% marks in aggregate. |
| Dual Degree - Lancaster University, UK | Candidates must have passed BE/B Tech in Computer Science, Information Science, Information Technology, Electronics & |
| Dual Degree - Edinburg Napier University, UK | Communication, Electrical & Electronics, Telecommunication, Medical Electronics, Biomedical Engineering or equivalent branches in Engineering with a minimum of 60% marks in aggregate. |



| | Dual Degree - GroepT International University College, Belgium | Candidates must have passed BE/B Tech in Computer Science, Information Science, Information Technology, Electronics & Communication, Electrical & Electronics, Telecommunication, Medical Electronics, Biomedical, Mechatronics or any equivalent branches in Engineering with a minimum of 60% marks in aggregate. |
|---|--|---|
| | M Sc in Information Science | B Sc in Computer Science/Information Science/Mathematics/Electronics/Physics/Ch emistry/BCA with minimum 50% aggregate marks Equivalent qualifications from Universities outside India are also considered. |
| | Bachelor of Audiology & Speech | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry |
| | Language Pathology BSc Clinical Optometry | and English with Biology or Mathematics as optional subjects with a minimum of 45% marks taken together in Physics, Chemistry and any one of the optional subjects. |
| School of Allied Health Sciences, Manipal | Bachelor of Occupational Therapy Bachelor of Physiotherapy B Sc Cardivascular Technology B Sc Medical Imaging Technology B Sc Medical Laboratory Technology B Sc Respiratory Therapy B Sc Nuclear Medicine Technology B Sc Renal Replacement Therapy & Dialysis Technology B Sc Perfusion Technology | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Biology with a minimum of 45% marks taken together in Physics, Chemistry and Biology. |
| | B Sc Medical Radiotherapy Technology | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Mathematics with a minimum of 45% marks in Physics, Chemistry and Mathematics taken together. |
| | B Sc Health Information Administration | Pass in 10+2, A Level, IB, American 12th grade or equivalent with any Science/Arts/Commerce groups with a minimum of 45% marks in aggregate. |



| Г | | |
|---|---|---|
| | Bachelor of Health Sciences (BHSc)- Twining program | Pass in 10+2, A Level, IB, American 12th grade or equivalent examination with a minimum of 75% marks in Physics, Chemistry, Mathematics, Biology and 60% in English OR an IELTS with score band of 6. |
| | Master of Audiology & Speech Language Pathology | The candidates must have passed BSLH/BASLP from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013 |
| | MOT Developmental Disabilities MOT Hand & Musculoskeletal conditions MOT Neuro Rehabilitation MOT Mental Health & Psychosocial Rehabilitation | The candidates must have passed BOT/B Sc OT/BOTh from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013. |
| | MPT Cardio- pulmonary Sciences MPT Community Based Rehabilitation MPT Neurosciences MPT Orthopaedics MPT Paediatrics Physiotherapy | The candidates must have passed BPT from a recognized University with a minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013 |
| | MPT (Dual Degree) - Sports & Clinical Biomechanics | The candidates must have passed BPT with a minimum of 50% marks and IELTS with score band of 7 in aggregate from a recognized University. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013 |
| | MRT Adult Respiratory Care MRT Neonatal & Paediatric Respiratory Care | The candidates must have passed BSc RT from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013. |
| | M Sc Hospital & Health Information Administration | The candidates must have passed any Bachelors degree from a recognized University with minimum of 50% marks. |
| | M Sc Medical Imaging Technology | The candidates must have passed B Sc MIT of 3 years regular course from any University recognized by UGC with a minimum of 50% marks in aggregate+1 year compulsory internship or clinical experience. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013 |



| M Sc Medical Radiation Physics | Candidates must have passed B Sc with Physics as major or B Sc with Physics as one of the major subjects from any University recognized by UGC in English medium. Candidates must have obtained not less than 60% marks in aggregate. |
|---|---|
| M Sc Medical Laboratory Technology - Clinical Biochemistry M Sc Medical Laboratory Technology - Microbiology & Immunology | The candidates must have passed B Sc MLT/BMLT from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013. |
| M Sc Nuclear Medicine Technology | The candidates must have passed B Sc in Nuclear Medicine (BNMT) with DNMT or Diploma in Medical Radio Isotopes Techniques (DMRIT) from BARC or PG Diploma in Nuclear Medicine Technology or B Sc in Medical Imaging Technology (B Sc MIT) /equivalent or B Sc with Mathematics/ Physics /Chemistry/ Biology as major subject from a recognized University with minimum of 50% marks in aggregate. |
| Master of Optometry | The candidates must have passed B Sc Optometry from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013. |
| M Sc Renal Replacement therapy & Dialysis Technology | Candidates must have passed B Sc RRT & DT from a recognized University with a minimum of 50% marks in aggregate. INTERNSHIP: Candidates should be completed or completing their compulsory internship on or before 15.08.2013 |
| M Sc Echocardiography | The candidates must have passed B Sc Cardiovascular Technology/Cardiac Care with a minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013. |
| M Sc Cardiac Cath & Intervention Technology | The candidates must have passed B Sc Cardiovascular Technology OR diploma in Cardiovascular Technology with a minimum of 3 year experience and 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013. |



| | Lateral M Sc Nuclear Medicine Technology | Post-graduate Diploma holders in Nuclear Medicine Technology (DNMT/DMRIT) approved by Atomic Energy Regulatory Board, Mumbai subject to the condition that the degree will be awarded only when they attend and pass the following three additional papers along with the second year theory papers:1) Mathematics in Nuclear Medicine2) Computers in Nuclear Medicine3) Biomedical Engineering The candidates must have passed fulltime |
|--|--|---|
| | M Phil Clinical Psychology | MA Psychology or M Sc Psychology from a recognized University with a minimum of 55% marks in aggregate in the Master Degree course as a whole. |
| | B Sc Perfusion Technology | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, |
| | B Sc Medical Imaging Technology | English and Biology with a minimum of 45% marks taken together in Physics, Chemistry and Biology. |
| Manipal Health Systems, Bangalore | M Sc Hospital & Health Information Administration MPT Cardio- | The candidates must have passed any Bachelors degree from a recognized University with minimum of 50% marks. The candidates must have passed BPT from a |
| | pulmonary Sciences MPT Community Based Rehabilitation MPT Orthopaedics MPT Neurosciences | recognized University with a minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013 |
| | Bachelor of Dental Surgery | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 55% marks in Physics, Chemistry and Biology taken together. |
| Manipal College of Dental Sciences, Mangalore | MDS Conservative Dentistry & Endodontics MDS Oral and Maxillofacial Surgery MDS Oral Pathology & Microbiology MDS Orthodontics & Dentofacial Orthopaedics MDS Paedodontics & Preventative dentistry MDS Periodontology MDS Prosthodontics & Crown and Bridge MDS Public Health Dentistry MDS Oral Medicine and Radiology | Pass in BDS degree or equivalent degree recognized by Dental Council of India. INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible. Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year. REGISTRATION: Candidates should have obtained permanent registration with Dental Council of India or any of the State Dental Council or should obtain the same within one month from the date of admission. |



| | Post Graduate Diploma Dental Materials | |
|--|---|--|
| | Bachelor of Dental Surgery | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 55% marks in Physics, Chemistry and Biology taken together. |
| | Post Graduate Certificate Course in Aesthetic Dentistry Post Graduate Certificate Course in Oral Implantology Post Graduate Certificate Course in Laser Dentistry | Pass in BDS from any institution recognized by the Dental council of India. |
| Manipal College of Dental Sciences, Manipal | MDS Public Health Dentistry MDS Conservative Dentistry & Endodontics MDS Oral and Maxillofacial Surgery MDS Oral Medicine and Radiology MDS Oral Pathology & Microbiology MDS Orthodontics & Dentofacial Orthopaedics MDS Paedodontics & Preventative dentistry MDS Periodontology MDS Prosthodontics & Crown and Bridge Post Graduate Diploma in Dental Materials | Pass in BDS degree or equivalent degree recognized by Dental Council of India. INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible. Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year. REGISTRATION: Candidates should have obtained permanent registration with Dental Council of India or any of the State Dental Council or should obtain the same within one month from the date of admission. |
| School of Nursing, Bangalore | B Sc Nursing | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 45% marks taken together in Physics, Chemistry, Biology and English.DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible. |
| | Post Basic Diploma in - Neonatal Nursing Post Basic Diploma in - Oncology Nursing Post Basic Diploma | Pass in B Sc/PB B Sc Nursing/ GNM recognized by Indian Nursing Council and a minimum of 55% marks in aggregate. |



| | in - Operation Room | |
|---|--|--|
| | Nursing | |
| School of Nursing, Mangalore | B Sc Nursing | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 45% marks taken together in Physics, Chemistry, Biology and English. DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible. |
| | B Sc Nursing | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 45% marks taken together in Physics, Chemistry, Biology and English. DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible. |
| | PB B Sc Nursing | Pass in GNM after 10+2 or equivalent examination preferably with Science subjects. Candidates should be a registered Nurse and registered Midwife or equivalent with any State Nursing Registration Council. Candidates should have completed their GNM course on or before 31.05.2013. |
| Manipal College of Nursing, Manipal | Post Basic Diploma in - Cardio Thoracic Nursing Post Basic Diploma in - Critical Care Nursing Post Basic Diploma in - Emergency & Disaster Nursing Post Basic Diploma in - Psychiatric /Mental Health Nursing Post Basic Diploma in - Neonatal Nursing Post Basic Diploma in - Neuro Science Nursing Post Basic Diploma in - Nurse Practitioner in Midwifery Post Basic Diploma in - Oncology Nursing Post Basic Diploma in - Oncology Nursing Post Basic Diploma in - Operation Room Nursing Post Basic Diploma | Pass in B Sc/PB B Sc Nursing/ GNM recognized by Indian Nursing Council and a minimum of 55% marks in aggregate. |



| | Rehabilitation | |
|-------------------|-------------------------------------|--|
| | Nursing | |
| | Tursing | The candidate must have passed M Sc |
| | 3.5 70.113.7 | Nursing recognized by Indian Nursing |
| | M Phil Nursing | Council with at least 60% marks in |
| | | aggregate. |
| | M Sc Community | Pass in B Sc/PC B Sc/PB B Sc Nursing |
| | Health Nursing | recognized by Indian Nursing Council with |
| | M Sc Medical | minimum of 55% marks in aggregate. |
| | Surgical Nursing | |
| | M Sc Obstetrics & | EXPERIENCE: The applicants must have 1 |
| | Gynaecology Nursing | year of experience as on 31.07.2013 after B |
| | M Sc Child Health | Sc Nursing in a hospital of at least 100 beds |
| | (Paediatric) Nursing | or in a community health programme or in a |
| | M Sc Psychiatric | school or college of Nursing. PB B Sc degree |
| | (Mental Health) | holders need to have one year experience |
| | Nursing | either before or after Post Basic B Sc Nursing |
| | <i>-</i> | degree. |
| | | Pass in 10+2 with Physics, Chemistry and |
| | | English with Mathematics or Biotechnology |
| | Bachelor of | or Computer Science or Biology as optional subjects. |
| | Pharmacy | Candidates who have passed 10+2 from |
| | | national open school are not eligible for |
| | | admission under the Pharmacy Act. |
| | | Diploma holders in Pharmacy from an |
| | Lateral B pharm | Institution recognized by the Pharmacy |
| | Euterar D pharm | Council of India. |
| | | Pass in 10+2 examination with Physics, |
| | | Chemistry and English with Mathematics or |
| | Pharm D Pharm D Post Baccalaureate | Biology as optional subjects / D Pharm or |
| | | any other equivalent qualification recognized |
| | | by the Pharmacy Council of India. |
| Manipal College | | Candidates who have passed 10+2 from |
| of Pharmaceutical | | national open school are not eligible for |
| Sciences, | | admission under the Pharmacy Act |
| Manipal | | DATE OF BIRTH: Should be on or before |
| • | | 31.12.96 |
| | | BP harm from an institution recognized by the Pharmacy Council of India with |
| | | minimum of 50% marks in aggregate. |
| | M Pharm | minimum of 50% marks in aggregate. |
| | Pharmaceutical | |
| | Administration | |
| | M Pharm | |
| | Pharmaceutical | D. Dhama from an institution accession 11 |
| | Biotechnology | B Pharm from an institution recognized by |
| | M Pharm | the Pharmacy Council of India with minimum of 50% marks in aggregate. |
| | Pharmaceutical | minimum of 50% marks in aggregate. |
| | Chemistry | |
| | M Pharm | |
| | Pharmaceutical | |
| | Marketing | |



| | T | |
|----------------|--|--|
| | M Pharm | |
| | Pharmaceutical | |
| | Quality Assurance | |
| | M Pharm | |
| | Pharmaceutics | |
| | M Pharm | |
| | Pharmacognosy | |
| | M Pharm | |
| | Pharmacology | |
| | | |
| | M Pharm Drug | |
| | Regulatory Affairs | |
| | M Pharm Pharmacy | |
| | Practice | |
| | M Pharm Industrial | |
| | Pharmacy | |
| | | Pass in 10+2, A Level, IB, American 12th |
| | BA Journalism & | grade or equivalent and a minimum of 45% |
| | Communication | marks in aggregate. Arts group subjects will |
| | | be the preferred qualification. |
| | | Candidates with a pass in 10+2 or those |
| | | pursuing B Sc with Mathematics as one of |
| | Certificate in | the subjects or students of 3 years Diploma in |
| | Animation | Engineering. Computer knowledge, |
| | Technology | proficiency in Mathematics and good |
| | | , |
| | | communication skills are essential. |
| | | The candidate must have a bachelor's degree |
| | MA Communication | in any discipline from a recognized |
| | | university and a minimum of 50% marks in |
| | | aggregate. |
| School of | | The candidate must have a bachelor's degree |
| Communication, | Post Graduate Diploma in Corporate Communication | in any discipline which is of 3 or more years |
| Manipal | | of duration after 10+2 examination from a |
| | | recognized university and a minimum of 50% |
| | | marks in aggregate. |
| | PG Diploma in Film Art | The candidate must have completed a |
| | | bachelor degree course in any stream (which |
| | | is of three or more years' duration after the |
| | | 10+2 examination) from any recognized |
| | | university, having secured not less than 50% |
| | | of marks in the aggregate of the total marks |
| | | prescribed. |
| | | 1 |
| | | The candidate must have a bachelor's degree |
| | Masters in Film Art and Film Making | in any discipline which is of 3 or more years |
| | | of duration after 10+2 examination from a |
| | | recognized university and a minimum of 50% |
| | | marks in aggregate. |
| School of | | The candidate must have a bachelor's degree |
| Management, | | in any discipline from a recognized |
| Manipal | 1,110/1 | university. They should have secured not |
| | | less than 50% marks in aggregate. |
| School of | M Co Dogganagativa | The candidates must have passed B Sc with |
| Regenerative | M Sc Regenerative | at least one subject of Biological Sciences or |
| Medicine, | Medicine | MBBS or B Pharm or BV Sc or BE |
| | 1 | <u> </u> |



| Bangalore | | Biotechnology or any other professional |
|------------------------------------|---|---|
| S | | graduate programme from a recognized |
| | | university and a minimum of 60% marks in |
| | M Phil Regenerative Medicine | aggregate. The candidates must have passed M Sc in any branch of Life sciences / MSC in Biotechnology/M Pharm/MBBS /MV Sc / MDS/ MD/M Sc in Regenerative Medicine/ Clinical Embryology and other paramedical course with a minimum of 50% marks in aggregate. |
| | Post Graduate Diploma in Regenerative Medicine & Stem Cells | The candidates must have passed Bachelors in Life sciences/B Tech/BE in Biotechnology/Biomedical/ MBBS /BDS / BV Sc and Allied Health Science from a recognized university and a minimum of 60% marks in aggregate. |
| | Bachelor of Architecture | Candidates must have a minimum of 40% marks in the All India National Aptitude Test in Architecture (NATA) conducted by Council of Architecture (COA) and must have passed any one of the following courses with a minimum of 50% marks in aggregate: • 10+2 with Mathematics and English as compulsory subjects OR • 3 years Diploma after 10 years of schooling (any stream) recognized by Central/State Government with Mathematics and English as compulsory subjects |
| Faculty of Architecture Planning & | Bachelor of Design (Fashion Design) Bachelor of Science (Fashion Design- Couture) | Pass in 10+2 or 3 years Diploma by the Central/State Government or equivalent qualification from any Board |
| Design, Manipal | Bachelor of Arts (Interior Design) | |
| | Master of Architecture (Advanced Design) | The candidates must have passed B Arch or its equivalent as approved by Council of Architecture with a minimum of 50% marks in aggregate. |
| | Executive Master of Architecture (Advanced Design) | The candidates must have passed B Arch or its equivalent as approved by Council of Architecture with a minimum of 50% marks in aggregate. |
| | Diploma in Fashion Design | Pass in 10+2 or 3 years Diploma by the Central/State Government or equivalent qualification from any Board |
| | Certificate in Fashion Design and Information Technology | Pass in 10+2 or 3 years Diploma by the Central/State Government or equivalent qualification from any Board |



| | D.T. 1 A | |
|--|---|--|
| Manipal Institute of Technology, Manipal | B Tech Aeronautical Engineering B Tech Automobile Engineering B Tech Biomedical Engineering B Tech Biotechnology Engineering B Tech Chemical Engineering B Tech Civil Engineering B Tech in Computer & Communication Engineering B Tech Electrical & Engineering B Tech Electrical & Electronics B Tech Electronics & Communication B Tech Industrial & Production Engineering B Tech Information Technology B Tech Instrumentation and Control Engineering | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Mathematics and English as compulsory subjects along with Chemistry or Biotechnology or Biology or any technical vocational subjects (Automobile Technology, Air Conditioning and Refrigeration Technology, Computer Science, Dairying Technology, Electrical Technology, Geospatial Technology, IT Application, Structure and Fabrication Technology)as optional subjects with a minimum of 50% marks taken together in Physics, Mathematics and any one of the optional subjects. |
| | B Tech Mechanical Engineering | |
| | B Tech Mechatronics | |
| | B Tech Printing | |
| | Technology | |
| | Lateral B Tech | 3 years Diploma in Engineering granted by the Board of Technical Examination of a Sate Government or B Sc with Mathematics as one of the subjects or equivalent qualification with a minimum of 50% marks in aggregate. |
| | Master of Computer Applications | The candidate must have a bachelor's degree in any discipline from a recognized university. In addition, candidates must have studied Mathematics/Statistics/Computer Science as one of the subjects in 10+2 (PUC) level or Mathematics/Statistics in bachelor's degree. They should have secured not less than 50% marks in aggregate. Candidates who have obtained their bachelors degree through Distance Learning mode must have at least 3 years work experience in the related field after obtaining bachelors degree. |



| Master of Computer Application (MCA)- Lateral Entry | Candidate should have studied BCA or B Sc Computer Science or B Sc Information Technology from a recognized University. They should have secured not less than 50% marks in aggregate. Candidates who have obtained their bachelors degree through Distance Learning mode must have at least 3 years work experience in the related field after obtaining bachelors degree. |
|--|---|
| M Tech in Advanced Thermal Power & Energy Systems M Tech in Astronomy & Space | The candidates must have passed the following courses with a minimum of 50% marks in aggregate. ADVANCED THERMAL POWER & |
| Engineering M Tech in Biochemical Engineering M Tech in | ENERGY SYSTEMS: BE/B Tech or AMIE or equivalent in Mechanical or Industrial & Production or Manufacturing Science or Automobile Engineering. |
| Biomedical Engineering M Tech in Chemical Engineering M Tech in Computer | ASTRONOMY & SPACE ENGINEERING: BE/B Tech or AMIE in Aeronautical Engineering, Electrical Sciences-Electrical /Electronics/Instrumentation/Mechatronics. |
| Aided Mechanical Design & Analysis M Tech in Computer Science & Information Security | BIO-MEDICAL ENGINEERING: BE/B Tech or AMIE or equivalent in Bio-medical or Medical Electronics or Electrical & Electronics or Electronics & Communication or Electronics & Telecommunication or |
| M Tech in Computer Science & Engineering M Tech in | Instrumentation Engineering. BIOCHEMICAL ENGINEERING: BE / B Tech or AMIE or equivalent in |
| Construction Engineering & Management M Tech in Control Systems | Biotechnology, Chemical Engineering, Pharmaceutical Technology, Bio-Chemical Engineering, Bio Process Engineering. CHEMICAL ENGINEERING: BE/B Tech or |
| M Tech in Digital Electronics & Advanced Communication M Tech in Energy | AMIE in Chemical Engineering/Bio-Chemical Engineering/Petroleum Engineering/Environmental Engineering/Bio Process Engineering/Bio Technology/ Pharmaceutical Technology. |
| Management, Auditing & Lighting M Tech in Engineering Management M Tech in Environmental | COMPUTER AIDED MECHANICAL DESIGN & ANALYSIS: BE/B Tech or AMIE or equivalent in Mechanical or Industrial & Production or Mechatronics or Manufacturing Science or Automobile Engineering. |
| Engineering M Tech in Industrial Biotechnology | COMPUTER SCIENCE & ENGINEERING: BE/B Tech or AMIE or equivalent in |



| M Tech in Industrial | Computer Science or Electronics & |
|---------------------------------|---|
| Pollution & Control | Communication or Electrical & Electronics |
| M Tech in | or Electronics & Telecommunication or |
| Manufacturing | Telecommunication Engineering or |
| Engineering & | Instrumentation Engineering or Information |
| Technology | Technology. |
| M Tech in | |
| Microelectronics | COMPUTER SCIENCE & INFORMATION |
| MTech in Network | SECURITY: BE/B Tech or AMIE or |
| Engineering | equivalent in Computer Science or |
| MTech in Power | Electronics & Communication or Electrical |
| Electronic Systems & | & Electronics or Electronics & |
| Control | Telecommunication or Telecommunication |
| MTech in Printing & | Engineering or Instrumentation Engineering |
| Media Engineering | or Information Technology. |
| MTech in Software | |
| Engineering | CONSTRUCTION ENGINEERING & |
| | MANAGEMENT: BE/B Tech or AMIE or |
| | equivalent in Civil Engineering or |
| | Architecture. |
| | |
| | CONTROL SYSTEM: BE/B Tech or AMIE |
| | or equivalent in Electrical Sciences or |
| | Electronics or Instrumentation or |
| | Mechatronics. |
| | DIGITAL ELECTRONICS AND ADVANCED COMMUNICATIONS: BE / B Tech or AMIE or equivalent in Electronics & Communication/Electrical & Electronics/Electronics & Instrumentation/ |
| | Telecommunication Engineering. |
| MTech in Structural Engineering | ENERGY MANAGEMENT, AUDITING & LIGHTING: BE/B Tech or AMIE or equivalent in Electrical & Electronics or Electronics & Communication or Instrumentation. |
| | ENGINEERING MANAGEMENT: BE/B |
| | Tech or AMIE in any branch of Engineering. |
| | Teen of Thirtie in any oranen of Engineering. |
| | ENVIRONMENTAL ENGINEERING: |
| | BE/B Tech or AMIE in Civil/Chemical |
| | Engineering/Ceramic |
| | Technology/Mechanical/Metallurgy/Mining/ |
| | Environmental/Bio-Chemical |
| | Engineering/Bio-Technology. |
| | |
| | INDUSTRIAL BIOTECHNOLOGY: BE/B |
| | Tech or AMIE or equivalent in |
| | Biotechnology or Chemical Engineering or |
| | Pharmaceutical Technology or Biochemical |



| | Engineering or Bioprocess Engineering. |
|---|---|
| | INDUSTRIAL POLLUTION CONTROL: BE/B Tech or AMIE or equivalent in Chemical Engineering, Mechanical Engineering, Biotechnology or Civil Engineering. |
| | MANUFACTURING ENGINEERING & TECHNOLOGY: BE/B Tech or AMIE or equivalent in Mechanical or Manufacturing or Industrial & Production or Mechatronics or Automobile Engineering or Production Engineering or Material & Metallurgy. |
| | MICROELECTRONICS: BE/B Tech or AMIE or equivalent in Electrical & Electronics, Electronics & Communication, Electronics & Telecommunication, Instrumentation & Control. |
| | NETWORK ENGINEERING: BE/B Tech or AMIE or equivalent in Computer Science or Electronics & Communication or Electrical & Electronics or Information Technology. |
| | POWER ELECTRONIC SYSTEMS & CONTROL: BE/B Tech or AMIE or equivalent in Electrical & Electronics or Electronics & Communication or Instrumentation & Control. |
| | PRINTING & MEDIA TECHNOLOGY: BE/B Tech or AMIE or equivalent in any branch of Engineering. |
| | SOFTWARE ENGINEERING: BE/B Tech or AMIE or equivalent in Computer Science and Engineering or Information Technology or Information Science and Engineering. |
| | STRUCTURAL ENGINEERING: BE/B Tech or AMIE or equivalent in Civil Engineering |
| M Tech in Network Engineering (Dual Degree) | The candidates must have passed BE/B Tech or AMIE or equivalent in Computer Science or Electronics and Communication or Electrical and Electronics or Information Technology course with a minimum of 50% marks in aggregate. |
| M Tech in Printing & Media Technology (Dual Degree) | The candidates must have passed BE/B Tech or AMIE or equivalent in any branch of Engineering course with a minimum of 50% |



| | | marks in aggregate. |
|--|---|---|
| | M Tech in Software Engineering (Dual Degree) | The candidates must have passed BE/B Tech or AMIE or equivalent in Computer Science and Engineering or Information Technology or Information Science and Engineering course with a minimum of 50% marks in aggregate. |
| School of Life Sciences, Manipal | B Sc Biotechnology | Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry and English with Biology or Biotechnology or Mathematics or any other Life Science subject as optional and a minimum of 55% marks taken together in Physics, Chemistry and any one of the optional subjects. |
| | M Sc in Bioinformatics | The candidates must have completed graduation in Basic Science / Life Science / Pharmaceutical Science / Medicine / Computer Science / Biomedical Engineering / Electronics / Biotechnology or other related Engineering Sciences and a minimum of 50% marks in aggregate. |
| | M Sc Medical – Biotechnology | Candidates must have passed Bachelors degree in any Life Science subject from a recognized university with a minimum of 50% marks in aggregate. |
| | M Sc Medical – Molecular Biology & Human Genetics | The candidate must have passed B Sc with at least one subject of Biological Sciences/BAMS/MBBS/BHMS/BPT/B Pharm or any other professional graduate programme from a recognized University with a minimum of 50% marks in aggregate. |
| | PG Diploma in Cellular and Molecular Diagnostics | The candidates must have completed bachelors or masters degree in Biotechnology/ Bioscience/ Agriculture/ Veterinary Science/ B pharm /M Pharm /MBBS/ BE/ B tech in Biomedical/ Biotechnology/Chemical with the minimum 50% marks in aggregate. |
| | Certificate Course in Bioinformatics | Students pursuing graduation in Basic Sciences / Life Sciences/ Pharmaceutical Sciences/ Medicine/ Computer Science/ Biomedical Engineering/ Electronics/Post Graduates/ PhD Scholars or Faculty. |
| Manipal School of Nursing, Manipal | Diploma in Nursing | The candidate should: • have passed with a minimum of 40% marks in aggregate in PUC Science/Arts/Commerce subjects from Karnataka PU Board as a regular candidate • be between 17-25 years of age • have knowledge of Kannada and English • be medically fit |



| | I | |
|--|--|---|
| Welcomgroup Graduate School of Hotel Administration, Manipal | Bachelor of Hotel Management | Pass in 10+2, A Level, IB, American 12th grade or equivalent preferably above 50% marks in aggregate. |
| | Bachelor of Hotel Management - Lateral Entry | 3 years diploma in Hotel Management or equivalent after 10+2 or equivalent, preferably above 50% marks in aggregate. A committee will award the equivalence to approve admissions. |
| | BA Culinary Arts | Pass in 10+2, A Level, IB, American 12th grade or equivalent preferably above 40% marks in aggregate. |
| | Bachelor of Hotel Management, Travel and Tourism | Pass in 10+2, A Level, IB, American 12th grade or equivalent. |
| Department of Culinary Arts & Allied Hospitality Studies, Manipal | M Sc Hospitality & Tourism Management | The candidates must have completed graduation from a recognized University. For candidates who have completed any degree other than Hotel Management are needed to enroll for a 'Bridge Programme' for three months concurrent to the commencement of Masters Programme. |
| | M Sc in Hospitality and Tourism Management (M Sc HTM [UCB]) | The candidates must have a Bachelors degree in any discipline from a recognized University and a minimum of 50% marks in aggregate. |
| | M Sc in Dietetics & Applied Nutrition | Candidates must have a bachelor's degree from a recognized university in Home Science / Nutrition / Dietetics/ Food science/Biology/Microbiology/Clinical Biochemistry/ Life Sciences or BNYS(Naturopathy) or BAMS (Ayurveda) or PG Diploma in Dietetics with a minimum of 50% marks in aggregate. |
| Department of European Studies, Manipal | Dual-degree Masters Program in European Studies and Management | The candidate must have passed bachelors degree in any discipline from a recognized university with a minimum of 50% marks in aggregate. |
| Department of Virus Research, Manipal | M Sc Clinical Virology | The candidates must have passed Bachelors degree in Life Sciences or BV Sc or B Sc Medical Laboratory Technology or MBBS or B Sc Biotechnology or B Sc Microbiology/Biochemistry/Zoology or any other related subjects preferably above 60% marks in aggregate or CGPA 6.5 at UG level. Training in human anatomy and physiology or experience in Virology/Clinical laboratory/Research will be given preference. |
| Department of Philosophy & Humanities, Manipal | MA in Philosophy MA in English MA in Sociology Integrated MA - PhD | The candidate must have passed bachelors degree in any discipline from a recognized university with a minimum of 55% marks in aggregate. |
| Department of Library & | Certificate Course in Library and | Pass in 10+2, A Level, IB, American 12th grade or equivalent with any Science / Arts / |



| Information | Information Science | Commerce group. |
|------------------|---------------------|--|
| Science, Manipal | | |
| | M Sc Library and | The candidate must have a bachelors degree |
| | Information Science | in B.A/B.Com/B.Sc/B.C.A/B.B.M etc. |
| | M Sc Library and | The candidate who have a Bachelor's degree |
| | Information Science | in Library and Information Science |
| | (Lateral Entry) | (B.L.I.Sc.; one year). |



Manipal Academy of Higher Education

manipal.edu, Madhav Nagar, Manipal - 576104, Karnataka, India Phone: 91 820 2922323 Fax: 91 820 2570062 E-mail: registrar@manipal.edu

www.manipal.edu