



प्रज्ञानं ब्रह्म



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# Evaluative Reports 2015

Vol. 2A

Health Sciences Program - KMC, Manipal

Submitted to

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



Submitted by

**Manipal Academy of Higher Education**

Manipal - 576 104, Karnataka

January 2016

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1. **Name of the Institution:** Kasturba Medical College, Manipal
2. **Year of establishment:** 1953
3. **Is the Department part of a school/faculty of the university?**  
Yes. A constituent college of MAHE, Manipal (a deemed to be University)
4. **Names of programs offered (UG, PG, PharmD, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.)**

Sl.NO.	Course
A	Undergraduate Medical Course:
1	MBBS
B	Postgraduate Degree / Diploma Course:
1	M.D. (Anatomy)
2	M.D. (Physiology)
3	M.D. (Biochemistry)
4	M.D. (Pharmacology)
5	M.D. (Pathology)
6	D.C.P. (Clinical Pathology)
7	M.D. (Microbiology)
8	M.D. (Community Medicine)
9	M.D. (Forensic Medicine)
10	M.D. (General Medicine)
11	M.D. (Paediatrics)
12	D.C.H. (Paediatrics)
13	M.D. (Dermatology, Venereology & Leprosy)
14	D.D.V.L.
15	M.D. (Hospital Administration)
16	M.D. (Psychiatry)
17	D.P.M. (Psychiatry)
18	M.D. (Radiotherapy)
19	M.D. (Radio Diagnosis)
20	D.M.R.D. (Radio Diagnosis)
21	M.D. (Anaesthesiology)
22	D.A. (Anaesthesiology)
23	M.S. (General Surgery)
24	M.S. (Obstetrics & Gynaecology)
25	D.G.O. (Obstetrics & Gynaecology)

26	M.S. (Orthopaedics)
27	D.Ortho. (Orthopaedics)
28	M.S. (Ophthalmology)
29	D.O. (Ophthalmology)
30	M.S. (Oto-Rhino-Laryngology)
31	D.L.O. (Oto-Rhino-Laryngology)
32	M.D. (Pulmonary Medicine)
33	M.D.(Immunohaemotology & Blood transfusion)
34	M.Ch(Paediatric Surgery)
35	M.Ch(Cardiothorasic Surgery)
36	M.Ch(Neuro Surgery)
37	M.Ch(Urology)
38	DM(Cardiology)
39	DM(Neurology)
40	DM(Gastroenterology)
41	DM(Nephrology)
C	Other postgraduate course:
42	M Sc. (Anatomy)
43	M Sc. (Physiology)
44	M Sc. (Biochemistry)
45	M Sc. (Microbiology)
46	M Sc. (Pharmacology)
47	M Sc. (Yoga Therapy)
48	M Sc. (Clinical Embryology)
49	M Phil (Psychiatric Social Work)
50	Certificate Course in Panchakarma
51	PhD
52	M.Sc. (Genetics counselling)
53	Certificate Program in Clinical Embryology

## 5. Interdisciplinary programs and departments/institutions involved

Faculty of some departments are engaged in teaching students of BDS of Manipal College of Dental Sciences.

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

There are no courses in collaboration with other universities, industries, foreign institutions

### 7. Details of programs discontinued, if any, with reasons

Nil

### 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

For Undergraduate Medical Degree programme the University examinations are held as per Medical Council of India regulations, i.e. at the end of 2<sup>nd</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 9<sup>th</sup> Semesters.

For PG programme the University examinations are held at the end of the course, i.e. at the end of 2 years for diploma courses and at the end of 3 years for degree & super-specialty courses.

### 9. Participation of the institution in the courses offered by other institutions

Institution is involved in teaching medical subjects to the BDS students of Manipal College of Dental Sciences, Manipal

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Designation	Sanctioned	Filled
• Professor/Additional Professor	38	108
• Associate Professor	99	102
• Assistant Professor/Lecturer	179	124
• Senior Resident	96	77
• Registrars	40	40
• Junior Resident	362	362
• Tutors	107	107
	921	920

### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

SL No	Name of the Faculty	Qualification	Designation	Department	No. of Years of Experience
1	Dr. Rohith K	MBBS, MD	Asst. Prof.	Anaesthesiology	06
2	Dr. Patil Nitin Tanajirao	MBBS, DA, DNB	Asst. Prof.	Anaesthesiology	01
3	Dr. Basavaraj Herekar	MBBS, MD	Asst. Prof.	Anaesthesiology	<01
4	Dr. Lokvendra Singh Budania	MBBS, MD	Asst. Prof.	Anaesthesiology	03
5	Dr. Lakshmi Shenoy	MBBS, MD	Asst. Prof.	Anaesthesiology	03
6	Dr. Amrut Rao K	MBBS, MD	Asst. Prof.	Anaesthesiology	02
7	Dr. Yogesh K Gaude	MBBS, DA, MD	Asst. Prof.	Anaesthesiology	01
8	Dr. Nanjangud Pawan R	MBBS, MD	Asst. Prof.	Anaesthesiology	<01
9	Dr. Ashish Kulshrestha	MBBS, MD	Asst. Prof.	Anaesthesiology	08
10	Dr. Shaji Mathew	MBBS, MD	Assoc. Prof.	Anaesthesiology	11
11	Dr. Shwethapriya R	MBBS, MD	Assoc. Prof.	Anaesthesiology	10
12	Dr. Malavika	MBBS, MD	Assoc. Prof.	Anaesthesiology	06
13	Dr. Arun Kumar HD	MBBS, MD	Assoc. Prof.	Anaesthesiology	06
14	Dr. K Gurudas Kini	MBBS, DA, MD	Professor	Anaesthesiology	31
15	Dr. Manjunath Prabhu	MBBS, MD	Professor	Anaesthesiology	20
16	Dr. Krishna HM	MBBS, MD, DNB	Professor	Anaesthesiology	11

17	Dr. Ramkumar V	MBBS, DA, MD	Professor	Anaesthesiology	29
18	Dr. Kailasnath Shenoy	MBBS, DA, MD	Professor	Anaesthesiology	28
19	Dr. Anitha N	MBBS, DA, MD	Professor	Anaesthesiology	23
20	Dr. Sandesh U	MBBS, DA, DNB	Senior Resident	Anaesthesiology	01
21	Dr. Nita Varghese	MBBS, MD	Senior Resident	Anaesthesiology	01
22	Dr. Rama Rani K	MBBS, MD	Senior Resident	Anaesthesiology	01
23	Dr. Madhu Rao	MBBS, MD	Senior Resident	Anaesthesiology	01
24	Dr. Siri Kandavar	MBBS, MD	Senior Resident	Anaesthesiology	01
25	Dr. Shriram Vaidhya	MBBS, MD, DNB	Senior Resident	Anaesthesiology	01
26	Dr. Goyal Kush Ashok Kumar	MBBS, DA, MD	Senior Resident	Anaesthesiology	<01
27	Dr. Bhavya P J	MBBS, DA, MD	Senior Resident	Anaesthesiology	<01
28	Dr. Priyanka G Kini	MBBS, MD	Senior Resident	Anaesthesiology	<01
29	Dr. Sagar M S	MBBS, MD	Senior Resident	Anaesthesiology	<01
30	Dr. Bharath K V	MBBS, MD	Senior Resident	Anaesthesiology	<01
31	Dr. Abhishek Rao Kordcal	MBBS, MD	Senior Resident	Anaesthesiology	<01
32	Dr. Ajith Kumar Paillai	MBBS, MD	Senior Resident	Anaesthesiology	<01
33	Dr. Archana Bhakta	MBBS, DA	Senior Resident	Anaesthesiology	10
34	Dr. Jayant K Navada	MBBS, DA	Senior Resident	Anaesthesiology	04
35	Dr. Roshan Kumar Shetty	MBBS, DA	Senior Resident	Anaesthesiology	01
36	Dr. Kumar M	M Sc, Ph D	Addl. Prof.		17



	R			Anatomy	
37	Dr. Vrinda Hari Ankolekar	MBBS, MD	Asst. Prof.	Anatomy	03
38	Dr. Anne D'Souza	MBBS, MD	Asst. Prof.	Anatomy	02
39	Dr. Arvind Kumar Pandey	M Sc, Ph D	Asst. Prof.	Anatomy	07
40	Dr. Chakravarthy Marxs	M Sc, Ph D	Asst. Prof.	Anatomy	09
41	Dr. Sneha Guruprasad Kalthur	MBBS, MS	Assoc. Prof.	Anatomy	10
42	Dr. Prasanna L C	MBBS, MD	Assoc. Prof.	Anatomy	06
43	Dr. B Prakash Babu	MSc, Ph D	Assoc. Prof.	Anatomy	28
44	Dr. Chandni Gupta	MBBS, MD	Assoc. Prof.	Anatomy	04
45	Dr. Mamatha H	MBBS, MD	Assoc. Prof.	Anatomy	04
46	Ms. Lydia S Quadros	MSc	Lecturer	Anatomy	05
47	Ms. Sushma R K	MSc	Lecturer	Anatomy	02
48	Dr. Antony Sylvan D'souza	MBBS, MS	Professor	Anatomy	13
49	Ms. Vanisri Nayak	MSc	Senior Grade Lecturer	Anatomy	07
50	Ms. Suhani Sumalatha M D'silva	MSc	Senior Grade Lecturer	Anatomy	07
51	Mr. R Huban Thomas	MSc	Senior Grade Lecturer	Anatomy	06

52	Dr. Madhusudhana Kamath	BAMS, MD (Ayu)	Asst. Prof.	Ayurveda	07
53	Dr. Sripathi Adiga H	BAMS, MD (Ayu)	Asst. Prof.	Ayurveda	05
54	Dr. Basavaraj S Hadapad	BAMS, MD (Ayu)	Assoc. Prof.	Ayurveda	14
55	Dr. Anupama V Nayak	BAMS, PG Dip in Panchakarm, MSc	Lecturer	Ayurveda	02
56	Dr. Krishna J Malagi	BSAM, MD (Ayu)	Professor	Ayurveda	14
57	Dr. Nalini K	MSc, PhD	Addl. Prof.	Biochemistry	24
58	Dr. Prashanth V	MBBS, MD	Asst. Prof.	Biochemistry	09
59	Dr. Varashree B S	MBBS, MD	Assoc. Prof.	Biochemistry	07
60	Dr. Ravindra Maradi	MBBS, MD	Assoc. Prof.	Biochemistry	5
61	Dr. Namitha Rao	MSc, PhD	Assoc. Prof.	Biochemistry	29
62	Dr. K Gopalakrishna	MSc, PhD	Assoc. Prof.	Biochemistry	27
63	Dr. Shivananda Baliga B	MSc, PhD	Assoc. Prof.	Biochemistry	22
64	Dr. Shobha U Kamath	MSc, PhD	Assoc. Prof.	Biochemistry	23
65	Dr. Padmanabha Udupa E G	MSc, PhD	Assoc. Prof.	Biochemistry	21
66	Dr. Revathi P Shenoy	MSc, PhD	Assoc. Prof.	Biochemistry	22
67	Dr. Krishnanand Prabhu RV	MBBS, MD	Assoc. Prof.	Biochemistry	12
68	Dr. Sudhakar Nayak S	MBBS, MD, Ph D, DNB	Professor	Biochemistry	32

69	Dr. Pragna Rao	MBBS, MD, Ph D	Professor	Biochemistry	25
70	Dr. Vinutha R Bhat	MSc, PhD	Selection Grade Lecturer	Biochemistry	17
71	Dr. Sunita Dinkar	MBBS, MS, MCh	Asst. Prof.	Cardio Thorasic Surgery	01
72	Dr. Vasudeva B Pai	MBBS, MS, MCh	Assoc. Prof.	Cardio Thorasic Surgery	01
73	Dr. Ganesh Kamath S	MBBS, MS, MCh	Professor	Cardio Thorasic Surgery	21
74	Dr. Naveen Chandra G S	MBBS, MD, DM	Asst. Prof.	Cardiology	01
75	Dr. Ashwal A J	MBBS, MD, DM	Asst. Prof.	Cardiology	<01
76	Dr. Hashir Kareem	MBBS, MD, DM	Assoc. Prof.	Cardiology	02
77	Dr. Tom Devasia	MBBS, MD, DM	Professor	Cardiology	07
78	Dr. Ranjan K S	MBBS, MD, DM	Professor	Cardiology	05
79	Dr. Padmakumar R	MBBS, MD, DNB, DM	Professor	Cardiology	13
80	Dr. Avinash Shetty	MBBS, MD	Addl Prof-cum Med. Officer (Rural H C)	Community Medicine	13
81	Dr. Sneha Deepak Mallya	MBBS, MD	Asst. Prof.	Community Medicine	02
82	Dr. Kirthinatha Ballala A B	MBBS, MD	Asst. Prof.	Community Medicine	02
83	Dr. Ashwini Kumar	MBBS, MD	Assoc. Prof-cum Med. Officer (Urban H C)	Community Medicine	11

84	Dr. Suma Nair	MBBS, MD	Assoc. Prof.	Community Medicine	10
85	Dr. George P Jacob	MBBS, MD	Assoc. Prof.	Community Medicine	08
86	Dr. Ranjitha S Shetty	MBBS, MD	Assoc. Prof.	Community Medicine	07
87	Dr. Muralidhar M K	MBBS, MD	Assoc. Prof.	Community Medicine	07
88	Dr. Chythra R Rao	MBBS, MD, DNB	Assoc. Prof.	Community Medicine	06
89	Dr. Sanjay M Pattanshetty	MBBS, MD	Assoc. Prof.	Community Medicine	04
90	Ms. Asha Kamath	M Sc, M Phil, Ph D	Assoc. Prof.(Biostatistics)	Community Medicine	19
91	Dr. Shashi Joyce Soans	MBBS, MD	Assoc. Prof.-cum-Epidemiologist	Community Medicine	16
92	Dr. Vinod Bhat H	MBBS, DCH, MD	Professor	Community Medicine	25
93	Dr. Pawan Kumar	MBBS, MD	Professor	Community Medicine	24
94	Dr. Veena G Kamath	MBBS, MD	Professor	Community Medicine	15
95	Dr. Ajay Bhandarkar	MBBS, MS	Asst. Prof.	ENT	03
96	Dr. GurshinderPal Singh Shergill	MBBS, MS	Asst. Prof.	ENT	03
97	Dr. Shalini S	MBBS, MS	Asst. Prof.	ENT	03
98	Dr. Rohit Singh	MBBS, MS, DNB	Assoc. Prof.	ENT	09
99	Dr. Deepak Ranjan Nayak	MBBS, MS	Professor	ENT	25
100	Dr. Balakrishnan R	MBBS, MS, DNB	Professor	ENT	22
101	Dr. Ashish	MBBS, MS	Senior	ENT	02

	Chandra Agarwal		Resident		
102	Dr. Poorvi V Sharma	MBBS, MS	Senior Resident	ENT	<01
103	Dr. Pavanchand Shetty	MBBS, MD	Asst. Prof.	Forensic Medicine	03
104	Dr. Ashwini Kumar	MBBS, MD	Asst. Prof.	Forensic Medicine	02
105	Dr. Haniel Larson D'Souza	MBBS, MD	Asst. Prof.	Forensic Medicine	02
106	Dr. Anitha S	MBBS, MD	Asst. Prof.	Forensic Medicine	01
107	Dr. Vinod C Nayak	MBBS, MD	Assoc. Prof.	Forensic Medicine	09
108	Dr. Prashantha Bhagavath	MBBS, MD, DNB	Assoc. Prof.	Forensic Medicine	07
109	Dr. Shankar M B	MBBS, MD	Assoc. Prof.	Forensic Medicine	05
110	Dr. Pradeep Kumar G	MBBS, DFM, MD	Professor & DEAN	Forensic Medicine	29
111	Dr. Vikram Palimar	MBBS, MD	Professor	Forensic Medicine	10
112	Dr. Girisha B	,MBBS, MD,DNB	Asst. Prof.	Gastroenterolog y	01
113	Dr. Shiran Shetty	MBBS, MD, DM	Assoc. Prof.	Gastroenterolog y	02
114	Dr. Ganesh Pai C	MBBS, MD, DM	Professor	Gastroenterolog y	21
115	Dr. Arun M S	MBBS, MD	Asst. Prof.	Hospital Administration	<01
116	Dr. P Naveen Kumar	MBBS, MD	Assoc. Prof.	Hospital Administration	04
117	Dr. Somu G	MBBS, MD	Professor	Hospital Administration	09
118	Dr. (Col) M Dayanand	MBBS, MHA	Professor & Med. Supdt.	Hospital Administration	16
119	Dr. Shamee Shastri	MBBS, MD	Assoc. Prof.	Immunohematol ogy & BT	06



120	Dr. Shivanand Bhat K	MLSC, PhD	Assoc. Prof.	KMC Health Science Library	03
121	Dr. Mahabaleshwar Rao	MLSC, PhD	Assoc. Prof.	KMC Health Science Library	03
122	Dr. Anju Shukla	MBBS, MD, DM	Asst. Prof.	Medical Genetics	<01
123	Dr. Girisha KM	MBBS, MD, DCH, DM	Professor	Medical Genetics	12
124	Dr. Karthik Udupa S	MBBS, MD, DM	Asst. Prof.	Medical Oncology	01
125	Dr. Joseph Thomas	MBBS, MD	Professor	Medical Oncology	30
126	Dr. Vasudeva Acharya	MBBS, MD	Addl. Prof.	Medicine	15
127	Dr. Weena Stanley	MBBS, MD	Asst. Prof.	Medicine	04
128	Dr. Ramamoorthi	MBBS, MD	Asst. Prof.	Medicine	4
129	Dr. Raghavendra Rao S	MBBS, MD	Asst. Prof.	Medicine	04
130	Dr. Karthik Rao N	MBBS, MD, DNB	Asst. Prof.	Medicine	3
131	Dr. Sanjay Kumar Singh	MBBS, MD	Asst. Prof.	Medicine	2
132	Dr. Yajnesh Kidiyoor	MBBS, MD	Asst. Prof.	Medicine	02
133	Dr. Ananth S Shenoy	MBBS, MD	Asst. Prof.	Medicine	02
134	Dr. Chandar Mohan Aggarwal	MBBS, MD	Asst. Prof.	Medicine	09
135	Dr. Lakshmi N Naik	MBBS, MD	Asst. Prof.	Medicine	11
136	Dr. Jayaprakash B	MBBS, MD	Assoc. Prof.	Medicine	12
137	Dr. Muralidhar Varma D	MBBS, MD	Assoc. Prof.	Medicine	12

138	Dr. Ragini Bekur	MBBS, MD	Assoc. Prof.	Medicine	10
139	Dr. Chandrashekar U K	MBBS, MD	Assoc. Prof.	Medicine	08
140	Dr. Shubha Sheshadri	MBBS, MD	Professor	Medicine	29
141	Dr. B A. Shastry	MBBS, MD	Professor	Medicine	27
142	Dr. Manjunath Hande	MBBS, MD	Professor	Medicine	27
143	Dr. Ram Bhat	MBBS, MD	Professor	Medicine	21
144	Dr. Raviraja Acharya	MBBS, MD, DNB	Professor	Medicine	20
145	Dr. Shivshankar K N	MBBS, MD	Professor	Medicine	18
146	Dr. Mukhyaprana Prabhu	MBBS, MD	Professor	Medicine	15
147	Dr. Kavitha Saravu	MBBS, MD	Professor	Medicine	15
148	Dr. Sudha Vidyasagar	MBBS, DCH, MD	Professor	Medicine	28
149	Dr. Ganesh V Shetty	MBBS, MD	Senior Resident	Medicine	01
150	Dr. Chandana S	MBBS, MD	Senior Resident	Medicine	01
151	Dr. Athish Shetty	MBBS, MD	Senior Resident	Medicine	<01
152	Dr. Shetty Hariprasad	MBBS, MD	Senior Resident	Medicine	01
153	Dr. Shipra Rai	MBBS, MD	Senior Resident	Medicine	<01
154	Dr Raja Ramesh N	MBBS, MD	Senior Resident	Medicine	<01
155	Dr. Sneha S	MBBS, MD	Senior Resident	Medicine	<01
156	Dr. Megha Pai	MBBS, MD	Senior Resident	Medicine	<01

157	Dr. Sai Madhuri Boppana	MBBS, MD	Senior Resident	Medicine	<01
158	Dr. Anil Kumar Mannava	MBBS, MD	Senior Resident	Medicine	<01
159	Dr. Sharath Madhyasta	MBBS, MD	Senior Resident	Medicine	<01
160	Dr. Mohan V B	MBBS, MD	Senior Resident	Medicine	<01
161	Dr. Nitin Bhat	MBBS, MD	Senior Resident	Medicine	<01
162	Dr. Shashidhar Reddy	MBBS	Senior Resident	Medicine	<01
163	Dr. Kiran Chawla	MBBS, MD	Addl. Prof.	Microbiology	10
164	Dr. Mridula M	MBBS, MD	Asst. Prof.	Microbiology	02
165	Dr. Padmaja A Shenoy	MBBS, MD	Asst. Prof.	Microbiology	02
166	Dr. Barnini Banerjee	MBBS, MD	Asst. Prof.	Microbiology	02
167	Dr. Renuka Anegundi	MBBS, MD	Asst. Prof.	Microbiology	<01
168	Mr. Prakash P Y	M Sc, PhD	Asst. Prof.	Microbiology	09
169	Dr. Shashidhar V	MBBS, MD	Assoc. Prof.	Microbiology	07
170	Dr. Vishnu Prasad	M Sc, PhD	Assoc. Prof.	Microbiology	17
171	Dr. Vinay Khanna	MBBS, MD	Assoc. Prof.	Microbiology	04
172	Ms. Seema Shetty	MSc	Lecturer	Microbiology	04
173	Dr. Vandana K E	MBBS, MD	Professor	Microbiology	13
174	Dr. Chiranjay Mukhopadhyay	MBBS, MD, PDCC	Professor	Microbiology	13
175	Dr. Darshan R	MBBS, MD, DM	Asst. Prof.	Nephrology	<01

176	Dr. M Ashok Bhat	MBBS, MD, DM	Assoc. Prof.	Nephrology	10
177	Dr. Shankar Prasad N	MBBS, MD, DM, DNB	Assoc. Prof.	Nephrology	02
178	Dr. Ravindra Prabhu A	MBBS, MD, DM	Professor	Nephrology	14
179	Dr. Aakash Shetty	MBBS, MD, DM	Asst. Prof.	Neurology	<01
180	Dr. Amit Sitaram	MBBS, MD, DM	Asst. Prof.	Neurology	<01
181	Dr. Aparna Pai	MBBS, MD, DM	Professor	Neurology	07
182	Dr. Kurupath Radhakrishnan	MBBS, MD, DM, MNAMS	Professor	Neurology	24
183	Dr. Lakshmi Prasad G	MBBS, MCh	Asst. Prof.	Neurosurgery	<01
184	Dr. Sunil Upadhyaya	MBBS, MS, M Ch	Assoc. Prof.	Neurosurgery	02
185	Dr. Vinod Kumar	MBBS, MS, MCh	Assoc. Prof.	Neurosurgery	02
186	Dr. Girish Menon	MBBS, MS, MCh, DNB	Professor	Neurosurgery	11
187	Dr. Guruprasad Kalthur	MSc, Ph D	Assoc. Prof.	Obstetrics & Gynaecology	09
188	Mr. Vikram Jeet Singh	MSc	Lecturer	Obstetrics & Gynaecology	<01
189	Ms. Shubhashree U	MSc	Lecturer	Obstetrics & Gynaecology	2
190	Ms. Sandhya Kumari M V	MSc	Lecturer	Obstetrics & Gynaecology	02
191	Dr. Sathisha Kumar Adiga	MSc, MCE, PhD	Professor	Obstetrics & Gynaecology	18
192	Dr. Sripad S Hebbar	MBBS, MD	Addl. Prof.	Obstetrics & Gynaecology	19
193	Dr. Jyothi Shetty	MBBS, MD	Addl. Prof.	Obstetrics & Gynaecology	19
194	Dr. Rekha	MBBS, MD	Asst. Prof.	Obstetrics & Gynaecology	01

195	Dr. Nisha Chauhan	MBBS, MS	Asst. Prof.	Obstetrics & Gynaecology	04
196	Dr. Praveena Vasudev Pai	MBBS, DNB, MD	Asst. Prof.	Obstetrics & Gynaecology	01
197	Dr. Neha Upadhyay	MBBS, MS	Asst. Prof.	Obstetrics & Gynaecology	04
198	Dr. Jayaraman Nambiar	MBBS, DGO, MD	Assoc. Prof.	Obstetrics & Gynaecology	16
199	Dr. Shyamala G	MBBS, MD	Assoc. Prof.	Obstetrics & Gynaecology	14
200	Dr. Prashanth Kumar Adiga	MBBS, MD	Assoc. Prof.	Obstetrics & Gynaecology	12
201	Dr. Akhila Vasudev	MBBS, MD, DNB	Assoc. Prof.	Obstetrics & Gynaecology	12
202	Dr. Sapana Amin	MBBS, MD, DNB	Assoc. Prof.	Obstetrics & Gynaecology	11
203	Dr. Deeksha Pandey	MBBS, MS	Assoc. Prof.	Obstetrics & Gynaecology	09
204	Dr. Sunanda Bharatnur	MBBS, MD	Assoc. Prof.	Obstetrics & Gynaecology	07
205	Dr. Roopa P S	MBBS, MS	Assoc. Prof.	Obstetrics & Gynaecology	06
206	Dr. Anjali M	MBBS, MS	Assoc. Prof.	Obstetrics & Gynaecology	06
207	Dr. Pratap Kumar Narayan	MBBS, DGO, MD	Professor	Obstetrics & Gynaecology	33
208	Dr. Muralidhar V Pai	MBBS, DGO, MD	Professor	Obstetrics & Gynaecology	25
209	Dr. Lavanya Rai	MBBS, DGO, MD	Professor	Obstetrics & Gynaecology	30
210	Dr. Vidyashree G Poojary	MBBS, MS	Senior Resident	Obstetrics & Gynaecology	<01
211	Dr. Shaweez Faizi	MBBS, DGO, MS	Senior Resident	Obstetrics & Gynaecology	<01
212	Dr. Aswathy Kumaran	MBBS, DGO, MS	Senior Resident	Obstetrics & Gynaecology	<01



213	Dr. Swati Kumari	MBBS, MS	Senior Resident	Obstetrics & Gynaecology	<01
214	Dr. Shikha Garg	MBBS, DGO	Senior Resident	Obstetrics & Gynaecology	<01
215	Dr. A Krishna Rao	MBBS, MS	Addl. Prof.	Ophthalmology	16
216	Dr. Sulatha Bhandary	MBBS, MS	Addl. Prof.	Ophthalmology	12
217	Dr. Shailaja S	MBBS, MS, DNB	Asst. Prof.	Ophthalmology	05
218	Dr. Manali Hazarika	MBBS, MS	Asst. Prof.	Ophthalmology	04
219	Dr. Santhish S	MBBS, MS	Asst. Prof.	Ophthalmology	11
220	Dr. Harsha H Shukla	MBBS, MS	Asst. Prof.	Ophthalmology	11
221	Dr. Chidanand Kulkarni	MBBS, MS, DNB, FRCS	Assoc. Prof.	Ophthalmology	10
222	Dr. Yogish Subraya Kamath	MBBS, MS	Assoc. Prof.	Ophthalmology	07
223	Dr. Vijaya Pai	MBBS, DOMS, MS	Professor	Ophthalmology	21
224	Dr. Lavanya G Rao	MBBS, DOMS, MS	Professor	Ophthalmology	17
225	Dr. Priyanka Ranjan Shetty	MBBS, MS	Senior Resident	Ophthalmology	<01
226	Dr. Raghuraj Kundangar	MBBS, MS	Asst. Prof.	Orthopaedics	04
227	Dr. Krishna Prasad	MBBS, D Ortho, MS	Asst. Prof.	Orthopaedics	03
228	Dr. Kumar Amerendra Singh	MBBS, MS	Asst. Prof.	Orthopaedics	05
229	Dr. Kumar Amerendra Singh	MBBS, MS	Asst. Prof.	Orthopaedics	02
230	Dr. Shaji P K	MBBS, MS	Asst. Prof.	Orthopaedics	02
231	Dr. Nishanth A	MBBS, MS	Asst. Prof.	Orthopaedics	02

232	Dr. Kanwarjot Singh Grover	MBBS, MS	Asst. Prof.	Orthopaedics	09
233	Dr. Hitesh H Shah	MBBS, MS, DNB	Assoc. Prof.	Orthopaedics	12
234	Dr. Monappa Naik A	MBBS, D Ortho., DNB	Assoc. Prof.	Orthopaedics	12
235	Dr Vivek Pandey	MBBS, MS	Assoc. Prof.	Orthopaedics	11
236	Dr. Ashwath Acharya	MBBS, MS	Assoc. Prof.	Orthopaedics	08
237	Dr. Sandeep Vijayan	MBBS, MS	Assoc. Prof.	Orthopaedics	07
238	Dr. S P Mohanty	MBBS, D Ortho., MS	Professor	Orthopaedics	34
239	Dr. K Sharath Kumar Rao	MBBS, D Ortho., MS	Professor	Orthopaedics	26
240	Dr. Kiran Kumar V Acharya	MBBS, MS	Professor	Orthopaedics	17
241	Dr. Shyamsunder Bhat N	MBBS, MS, DNB	Professor	Orthopaedics	14
242	Dr. Anil K Bhat	MBBS, MS	Professor	Orthopaedics	15
243	Dr. Amrath Raj B K	MBBS, MS	Senior Resident	Orthopaedics	01
244	Dr. Manindra Bhushan	MBBS, MS	Senior Resident	Orthopaedics	02
245	Dr. Sandesh Madi	MBBS, MS	Senior Resident	Orthopaedics	<01
246	Dr. Vinay C Kamble	MBBS, MS	Senior Resident	Orthopaedics	<01
247	Dr. Mahesh Kulkarni	MBBS, MS	Senior Resident	Orthopaedics	<01
248	Dr. Santosh Prabhu P	MBBS, DNB(Paed Surg)	Assoc. Prof.	Paediatric Surgery	07
249	Dr. Sandeep P T	MBBS, MS, MCh	Assoc. Prof.	Paediatric Surgery	06

250	Dr. Vijaya Kumar	MBBS, MS, MCh	Professor	Paediatric Surgery	16
251	Dr. Suneel C Mundkur	MBBS, DCH, DNB	Addl. Prof.	Paediatrics	14
252	Dr.Meenu	MBBS, MD	Asst. Prof.	Paediatrics	<01
253	Dr. Kalyan C Kakumani	MBBS, MD	Asst. Prof.	Paediatrics	<01
254	Dr. Jayashree P	MBBS, MD	Assoc. Prof.	Paediatrics	15
255	Dr. Prashanth B Naik	MBBS, MD	Assoc. Prof.	Paediatrics	06
256	Dr. Sonia Bhatt	MBBS, MD	Assoc. Prof.	Paediatrics	05
257	Dr .Nalini Bhaskaranand	MBBS, DCH, MD	Professor	Paediatrics	33
258	Dr. A Sriikiran	MBBS, MD	Professor	Paediatrics	16
259	Dr. Leslie E Lewis	MBBS, DCH, DNB	Professor	Paediatrics	16
260	Dr. Ramesh Bhat Y	MBBS, MD	Professor	Paediatrics	14
261	Dr. Pushpa Kini	MBBS, DCH, MD	Professor	Paediatrics	28
262	Dr. Sandeep Kumar B K	MBBS, MD	Senior Resident	Paediatrics	01
263	Dr. Abhishek Phadke	MBBS, DNB	Senior Resident	Paediatrics	01
264	Dr. Sowmya S	MBBS, MD	Senior Resident	Paediatrics	<01
265	Dr.Sandesh Kini B	MBBS, MD	Senior Resident	Paediatrics	<01
266	Dr. Geetha V	MBBS, MD	Addl. Prof.	Pathology	15
267	Dr. Bhavna Nayal	MBBS, MD	Asst. Prof.	Pathology	04
268	Dr. Gauri Salgaonkar	MBBS, MD	Asst. Prof.	Pathology	03
269	Dr. Deepak Nayak	MBBS, MD	Asst. Prof.	Pathology	01
270	Dr. Shalini Goel	MBBS, MD	Asst. Prof.	Pathology	03

271	Dr. Sushama Belurkar V	MBBS, MD	Assoc. Prof.	Pathology	12
272	Dr. Vidya Monappa	MBBS, MD, DNB	Assoc. Prof.	Pathology	09
273	Dr. Padmapriya J	MBBS, MD	Assoc. Prof.	Pathology	07
274	Dr. Ruchee Khanna	MBBS, MD	Assoc. Prof.	Pathology	07
275	Dr. Swathi Sharma	MBBS, MD	Assoc. Prof.	Pathology	06
276	Dr. Manna Valiathan	MBBS, MD	Professor	Pathology	20
277	Dr. Chetan Manohar	MBBS, MD	Professor	Pathology	19
278	Dr. Kanthilalatha Pai	MBBS, MD	Professor	Pathology	18
279	Dr. Mary Mathew	MBBS, DCH, MD	Professor	Pathology	17
280	Dr. Anuradha C K Rao	MBBS, MD	Professor	Pathology	17
281	Dr. Geetha T V	MBBS, MD	Professor	Pathology	26
282	Dr. Ranjini Kudva	MBBS, MD	Professor	Pathology	21
283	Dr. Smita Shenoy	MBBS, MD	Addl. Prof.	Pharmacology	10
284	Dr. Navin Ashok Patil	MBBS, MD	Asst. Prof.	Pharmacology	01
285	Dr. Supratim Datta	MBBS, MD	Asst. Prof.	Pharmacology	09
286	Dr. Bharti Chogtu Magazine	MBBS, MD	Assoc. Prof.	Pharmacology	10
287	Dr. Amberkar Mohan Babu	MBBS, MD	Assoc. Prof.	Pharmacology	07
288	Dr. Meena Kumari K	MBBS, MD	Assoc. Prof.	Pharmacology	07
289	Dr .Veena Nayak	MBBS, MD	Assoc. Prof.	Pharmacology	07

290	Dr. Shivaprakash G	MBBS, MD	Assoc. Prof.	Pharmacology	06
291	Ms. Swapna S	M Sc	Lecturer	Pharmacology	01
292	Dr. K Laxminarayana Baiyya	MBBS, MD, Ph D	Professor	Pharmacology	29
293	Dr. Shalini Adiga	MBBS, MD	Professor	Pharmacology	14
294	Dr. Dhiren D Punja	MBBS, MD	Asst. Prof.	Physiology	03
295	Dr. Pallavi LC	MBBS, MD	Asst. Prof.	Physiology	<01
296	Dr. Srinivasa J	MBBS, MD	Asst. Prof.	Physiology	12
297	Dr. Sanjay Kumar	MBBS, MD	Asst. Prof.	Physiology	05
298	Dr. Gautham Kundaje	MBBS, MD	Assoc. Prof.	Physiology	21
299	Dr. Krishnamoorthy Prabhu	MBBS, MD	Assoc. Prof.	Physiology	10
300	Dr. Kirtana M Pai	MBBS, MD	Assoc. Prof.	Physiology	07
301	Dr. Manjula SD	M Sc, PhD	Assoc Prof	Physiology	17
302	Dr. Vasanthaxmi	M Sc, PhD	Assoc. Prof.	Physiology	20
303	Mr. Snehunshu Adhikari	MSc	Lecturer	Physiology	06
304	Dr. Susan Benjamin	MBBS, MD	Professor	Physiology	32
305	Dr. Prakasa Rao Jonnakuty	MBBS, MD	Professor	Physiology	08
306	Dr Raghavendra Rao K	MBBS, MD	Professor	Physiology	22
307	Ms. Suchetha P Kumar	MSc	Selection Grade Lecturer	Physiology	24



308	Ms. Sanu Susan Jacob	MSc	Senior Grade Lecturer	Physiology	08
309	Mr. Sivakumar G	MSc	Senior Grade Lecturer	Physiology	06
310	Mr. Murali	M Sc	Tutor	Physiology	<01
311	Dr. N C Sreekumar	MBBS, MS, MCh	Professor & Had	Plastic Surgery	13
312	Dr. Rishikesh V Behera	MBBS, MD	Asst. Prof.	Psychiatry	03
313	Dr. Rajeshkrishna Bhandary	MBBS, MD	Asst. Prof.	Psychiatry	02
314	Dr. Ravindra	MBBS, MD	Asst. Prof.	Psychiatry	02
315	Dr. Avinash G Kamath	MBBS, MD	Asst. Prof.	Psychiatry	02
316	Dr. Sreejayan K	MBBS, MD	Assoc. Prof.	Psychiatry	06
317	Dr. Samir Kumar Praharaj	MBBS, DPM, MD	Assoc. Prof.	Psychiatry	04
318	Dr. Gunasagari Rao	MSW, MPhil, PhD	Assoc. Prof. in Psychiatric Soc. Worker	Psychiatry	28
319	Dr. Sinu E	MPhil, MSW, PhD	Asst Prof. in Psychiatry Social Work	Psychiatry	04
320	Dr. Thippeswamy	MSW, MPhil, PhD	Asst Prof. in Psychiatry Social Work	Psychiatry	<01
321	Mr. Praveena	MSW, MPhil	Lecturer in Psychiatry Social	Psychiatry	2

			Work		
322	Dr. Sripathy M Bhat	MBBS, DPM, MD, MNAMS	Professor	Psychiatry	28
323	Dr. PSVN Sharma	MBBS, DPM, MD	Professor	Psychiatry	30
324	Dr. Mahima Acharya	MBBS, MD	Senior Resident	Psychiatry	02
325	Dr. Nishanth Vemana	MBBS, MD	Senior Resident	Psychiatry	<01
326	Dr. Abhinav Pandey	MBBS, DPM	Speciality Medical Officer	Psychiatry	06
327	Dr. Arjuna H Satapute	MBBS, MD	Asst. Prof.	Pulmonary Medicine	01
328	Dr. Preetam Rajgopal Acharya	MBBS, DTCD, MD	Assoc. Prof.	Pulmonary Medicine	09
329	Dr. Manu Mohan K	MBBS, DNB	Assoc. Prof.	Pulmonary Medicine	08
330	Dr. Rahul Magazine	MBBS, DTCD, MD	Professor	Pulmonary Medicine	09
331	Dr. Aswini Kumar Mohapatra	MBBS, MD	Professor	Pulmonary Medicine	14
332	Dr. Sagar C	MBBS, DTCD, DNB	Senior Resident	Pulmonary Medicine	<01
333	Dr. Sandeep Kumar	MBBS, MD	Asst. Prof.	Radiodiagnosis & Imaging	03
334	Dr. Lakshmikanth H K	MBBS, MD	Asst. Prof.	Radiodiagnosis & Imaging	02
335	Dr. Balasubraman yam S	MBBS, MD	Asst. Prof.	Radiodiagnosis & Imaging	02
336	Dr. Anuragh Ayachit	MBBS, MD	Assoc. Prof.	Radiodiagnosis & Imaging	05
337	Dr. Satish Babu Maddukuri	MBBS, MD	Assoc. Prof.	Radiodiagnosis & Imaging	04

338	Dr. Smiti	MBBS, DNB	Professor	Radiodiagnosis & Imaging	11
339	Dr. Prakashini K	MBBS, MD	Professor	Radiodiagnosis & Imaging	08
340	Dr. Rajagopal KV	MBBS, MD	Professor & HOD	Radiodiagnosis & Imaging	17
341	Dr. Paruthikunnan M Samir	MBBS, MD	Senior Resident	Radiodiagnosis & Imaging	01
342	Dr. Nishith Shetty	MBBS, MD	Senior Resident	Radiodiagnosis & Imaging	01
343	Dr. Narayana Ramakrishna	MBBS, DNB	Senior Resident	Radiodiagnosis & Imaging	01
344	Dr. Sandip Pattanshetti	MBBS, MD	Senior Resident	Radiodiagnosis & Imaging	01
345	Dr. Poornima	MBBS, MD	Senior Resident	Radiodiagnosis & Imaging	01
346	Dr. Sanket	MBBS, DNB	Senior Resident	Radiodiagnosis & Imaging	<01
347	Dr. Swarna K	MBBS, DMRD	Senior Resident	Radiodiagnosis & Imaging	04
348	Ms. Jyoti	MSc	Lecturer In Med. Physics	Radiotherapy	04
349	Mr. Sarath S Nair	MSc	Lecturer In Med. Physics	Radiotherapy	<01
350	Dr. M S Vidyasagar	MBBS, DMRT, MD	Professor	Radiotherapy	32
351	Dr. Rajesh Kumar	MBBS, MD, DRM	Professor	Radiotherapy	13
352	Dr. Donald J Fernandes	MBBS, DMRT, MD	Professor	Radiotherapy	29
353	Mr. Srinidhi Chandragutti	MSc, DRP	Senior Grade Lecturer	Radiotherapy	10
354	Ms. Ramya	MSc	Senior Grade Lecturer	Radiotherapy	09

355	Dr. Anshul Singh	MBBS, MD	Senior Resident	Radiotherapy	01
356	Dr. Prahlad H Y	MBBS, MD	Senior Resident	Radiotherapy	<01
357	Dr. Anusha Reddy	MBBS, MD	Senior Resident	Radiotherapy	<01
358	Dr. Raghavendra Rao	MBBS, MD, DNB	Addl. Prof.	Skin & STD	15
359	Dr. Sudhir Nayak U K	MBBS, MD, DDVL	Asst. Prof.	Skin & STD	5
360	Dr. Smitha Prabhu	MBBS, DVD, MD	Assoc. Prof.	Skin & STD	11
361	Dr. Shrutakirthi D Shenoy	MBBS, DVD, MD	Professor	Skin & STD	27
362	Dr. Sathish Pai B	MBBS, DVD, MD	Professor	Skin & STD	19
363	Dr. Shricharith Shetty	MBBS, MD	Senior Resident	Skin & STD	02
364	Dr. Ivy Sandhu	MBBS, MD	Senior Resident	Skin & STD	01
365	Dr. Namitha Chatra	MBBS, MD	Senior Resident	Skin & STD	<01
366	Dr. Nawin Kumar	MBBS, MS	Asst. Prof.	Surgery	05
367	Dr. Anand H	MBBS, MS	Asst. Prof.	Surgery	01
368	Dr. Prashanth Tubachi	MBBS, MS	Asst. Prof.	Surgery	03
369	Dr. Deviprasad Shetty	MBBS, MS	Asst. Prof.	Surgery	03
370	Dr. Badareesh L	MBBS, MS	Asst. Prof.	Surgery	04
371	Dr. Sunil Krishna	MBBS, MS	Asst. Prof.	Surgery	03
372	Dr. Digvijoy Sharma	MBBS, MS	Asst. Prof.	Surgery	02
373	Dr. Aman Mahajan	MBBS, MS	Asst. Prof.	Surgery	08

374	Dr. Tushar Dani	MBBS, MS	Asst. Prof.	Surgery	02
375	Dr. Odaiyappan K	MBBS, MS, MRCS	Asst. Prof.	Surgery	02
376	Dr. Sharath S Honnani	MBBS, MS	Asst. Prof.	Surgery	01
377	Dr. Zubair Ahmed	MBBS, MS	Asst. Prof.	Surgery	01
378	Dr. Chethan K	MBBS, MS	Assoc. Prof.	Surgery	08
379	Dr. Dinesh B V	MBBS, MS	Assoc. Prof.	Surgery	07
380	Dr. K Veena L Karanth	MBBS, MS	Assoc. Prof.	Surgery	05
381	Dr. Sampath Kumar P	MBBS, MS	Professor	Surgery	31
382	Dr. Annappa Kudva	MBBS, MS	Professor	Surgery	26
383	Dr. L Ramachandra	MBBS, MS	Professor	Surgery	21
384	Dr. Stanley Mathew	MBBS, MS	Professor	Surgery	16
385	Dr. Siddhartha Bhandary	MBBS, MS	Professor	Surgery	14
386	Dr. S S Prasad	MBBS, MS, DNB	Professor	Surgery	08
387	Dr. B H Anand Rao	MBBS, MS	Professor	Surgery	36
388	Dr. Rajgopal Shenoy K	MBBS, MS	Professor	Surgery	28
389	Dr. Prabhat Kumar	MBBS, MS	Senior Resident	Surgery	01
390	Dr. Adarsh G	MBBS, MS	Senior Resident	Surgery	01
391	Dr. Vineet Mannan	MBBS, MS	Senior Resident	Surgery	01
392	Dr. Kalpana Vineet	MBBS, MS	Senior Resident	Surgery	<01
393	Dr. Bharath M S	MBBS, MS	Senior Resident	Surgery	<01

394	Dr. Benakatti Rajendra	MBBS, MS	Senior Resident	Surgery	<01
395	Dr. Jegan Mohan S	MBBS, MS	Senior Resident	Surgery	<01
396	Dr. Vijay Koduru	MBBS, MS	Senior Resident	Surgery	<01
397	Dr. Pratik J Raval	MBBS, MS	Senior Resident	Surgery	<01
398	Dr. Varun Patnam	MBBS, MS	Senior Resident	Surgery	<01
399	Dr. Avinash R Odugoudar	MBBS, MS	Senior Resident	Surgery	<01
400	Dr. Sandeep Patil	MBBS, MS	Senior Resident	Surgery	<01
401	Dr. Afroz Khan F Airani	MBBS, MS	Senior Resident	Surgery	<01
402	Dr. Satadru Ray	MBBS, MS, M Ch	Professor	Surgical Oncology	16
403	Dr. Arun Kumar Chawla	MBBS, MS, DNB, MCh	Addl. Prof.	Urology	12
404	Dr. Dilip Kumar Mishra	MBBS, MS, MCh	Asst. Prof.	Urology	02
405	Dr. Venkatesh K S	MBBS, MS, DNB	Assoc. Prof.	Urology	04
406	Dr. Sunil Pillai Bhaskar	MBBS, MS, M Ch	Assoc. Prof.	Urology	04
407	Dr. Joseph Thomas	MBBS, MS, M Ch, DNB	Professor	Urology	23
408	Dr. Padmaraj Hegde	MBBS, MS, MCh	Professor	Urology	14
409	Mr. Govardhan Reddy	MA, MSc	Lecturer	Yoga	03
410	Ms. Annapoorna	BAMS, Dip. Yoga, MSc	Selection Grade Lecturer	Yoga	23
411	Dr. Gayathri Nayak	Dip. Yoga, M Sc, PhD	Selection Grade Lecturer	Yoga	26

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

#	Name	Department	Qualification
1	Dr. Rajasekharan P Warriar	Paediatrics	MBBS, MD
2	Dr. K Sreekumaran Nair	Medicine	MBBS, MD, PhD, MRCP, FRCP
3	Dr. Nagendra Swamy	Hospital Administration	MBBS, MD
4	Dr. Nandini K Kumar	Hospital Administration	MBBS, MD
5	Dr. Rangan Varadan	Community Medicine	B Com, CA, Ph D
6	Dr. Aashish Kumar Bansal	Ophthalmology	MBBS, MS
7	Dr. Mabel Vasnaik	Anaesthesiology	MBBS, MD
8	Dr. Russell F D'Souza	Forensic Medicine	MBBS, MD, MHA
9	Dr. Unni Krishnan Karunakara	Community Medicine	MBBS, MD
10	Dr. Alladi Mohan	Medicine	MBBS, MD
11	Dr. K Sasidharan	Urology	MBBS, MS, MCh
12	Dr. Utpal S Tatu	Biochemistry	M Sc, PhD
13	Dr. Mahesha Vankalakunti	Pathology	MBBS, MD
14	Dr. Ravi Shankar Swamy	Paediatrics	MBBS, MD
15	Dr. Riccardo Talevi	Clinical Embryology	Ph D
16	Dr. Amit Rauthan	Medical Oncology	MBBS, MD
17	Dr. Poonam Patil	Medical Oncology	MBBS, MD
18	Dr. Shabber S Zaveri	Surgical Oncology	MBBS, MS, MCh
19	Dr. Somashekhar S P	Surgical Oncology	MBBS, MS, MCh
20	Dr. Ashish Dixit	Medical Oncology	MBBS, MD
21	Dr. Ravi Gadahadh	Radiodiagnosis & Imaging	MBBS, MD
22	Dr. Deepak Dubey	Urology	MBBS, MS, MCh
23	Dr. S S Iyengar	Cardiology	MBBS, MD, DM
24	Dr. Vidyashankar Subash Chandra	Cardiology	MBBS, MD, DM
25	Dr. Rita Iyer Mhaskar	OBG	MBBS, MD
26	Dr. Ravishankar B	Nephrology	MBBS,MD,DM

### 13. Percentage of classes taken by temporary faculty – program-wise information

0% [There are no temporary faculty working in the institution.]

### 14. Program-wise Student Teacher Ratio

Sl.NO.	Course	Student-Teacher Ratio
A	Undergraduate Medical Course:	
1	MBBS	1:1.46
B	Postgraduate Degree / Diploma Course:	
1	M.D. (Anatomy)	0.31
2	M.D. (Physiology)	0.23
3	M.D. (Biochemistry)	0.35
4	M.D. (Pharmacology)	1.7
5	M.D. (Pathology)	1.6
6	D.C.P. (Clinical Pathology)	0.4
7	M.D. (Microbiology)	0.9
8	M.D. (Community Medicine)	0.9
9	M.D. (Forensic Medicine)	0.9
10	M.D. (General Medicine)	1.7
11	M.D. (Paediatrics)	2.3
12	D.C.H. (Paediatrics)	0.3
13	M.D. (Dermatology, Venereology & Leprosy)	1.3
14	D.D.V.L.	0.5
15	M.D. (Hospital Administration)	2
16	M.D. (Psychiatry)	0.6
17	D.P.M. (Psychiatry)	0.5
18	M.D. (Radiotherapy)	0.9
19	M.D. (Radio Diagnosis)	1.2
20	D.M.R.D. (Radio Diagnosis)	0.4
21	M.D. (Anaesthesiology)	1
22	D.A. (Anaesthesiology)	0.2
23	M.S. (General Surgery)	0.7
24	M.S. (Obstetrics & Gynaecology)	1
25	D.G.O. (Obstetrics & Gynaecology)	0.4
26	M.S. (Orthopaedics)	1.4
27	D.Ortho. (Orthopaedics)	0.4
28	M.S. (Ophthalmology)	1.7
29	D.O. (Ophthalmology)	0.2



30	M.S. (Oto-Rhino-Laryngology)	1.6
31	D.L.O. (Oto-Rhino-Laryngology)	0.5
32	M.D. (Pulmonary Medicine)	0.7
33	M.D.(Immunohaematology & Blood transfusion)	3
34	MCh(Paediatric Surgery)	0.7
35	MCh(Cardiothoracic Surgery)	0.7
36	MCh(Neuro Surgery)	2
37	MCh(Urology)	1.5
38	DM(Cardiology)	1.3
39	DM(Neurology)	1.5
40	DM(Gastroenterology)	1
41	DM(Nephrology)	1.5
C	Other postgraduate course:	
42	MSc.(Anatomy)	1.6
43	MSc.(Physiology)	0.4
44	MSc.(Biochemistry)	3.9
45	MSc.(Microbiology)	3.2
46	MSc.(Pharmacology)	1.2
47	MSc.(Yoga Therapy)	5.7
48	MSc.(Clinical Embryology)	4.7
49	MPhil(Psychiatric Social work)	0.5
50	Panchakarma(Certificate course)	2.6
51	PhD	1
52	MSc(Genetics counselling)	2.5
53	Certificate Program in Clinical Embryology	2

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

Number of Academic Support Staff	Sanctioned	Filled	Actual
Technical	140	138	138
Administrative Staff	75	73	73
Others (GDW & HKS)	60	56	56

**16. Research thrust areas as recognized by major funding agencies**

- Biochemisry - Newborn Screening lab
- Microbiology – Virology, Bacteriology
- Pharmacology, Medicine, Psychiatry - Drug trials
- Community medicine – Vaccine trial

- Medical Genetics
- Clinical embryology

**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, project title and grants received project-wise.**

The faculty are actively involved in clinical trials and funded research projects. The details provided are only for the year 2014-15.

Research Grants received for the period from 01.04.2014 to 31.03.2015								
#	Name of the Project	Name of the donor /grantor	Principal Investigator	Amount approved	Duration of the Project	Amount received in current month		Date of Receipt of the amount
						Operating	Capital	
1	Hospital based sentinel surveillance of Bacterial Meningitis in India	National Institute of Epidemiology (Indian Council of Medical Research)	Dr Pushpa Kini	6,372,114.00	18.01.2012 to 17.01.2015	759,240.00	-	4/10/2014
2	Understanding the Epidemiology of Antimalarial Drug Resistance in Plasmodium Vivax and Elucidation of Resistance Deterministic Host Factors For Antimalarial Drugs	Indian Council of Medical Research, New Delhi	Dr Kavitha Saravu	5,212,134.00	05.07.2012 to 04.07.2015	1,249,030.00	-	4/30/2014
3	Optimizing non invasive markers for embryo selection	Indian Council of Medical Research, New Delhi	Dr Satish Kumar Adiga (Fellowship - Ms Fiona Olvitta D'souza)	216,333.00	01.05.2013 to 30.04.2016	59,000.00	-	5/31/2014
4	The lost focus on males in adolescent friendly health care services-a qualitative analysis	Indian Council of Medical Research, New Delhi	Dr Veena Kamath	1,882,876.00	01.07.2012 to 31.12.2014	533,427.00	-	5/31/2014
5	Prevalence of Maternal Genito-Urinary and Periodontal Infections and Associated Risk For Adverse	Indian Council of Medical Research, New Delhi	Dr K E Vandana	1,884,004.00	01.10.2010 to 05.01.2014	149,054.00	-	6/12/2014

	Pregnancy Outcome-A Case Cohort Study							
6	Adolescent health care in two districts of coastal Karnataka an exploratory study	Indian Council of Medical Research, New Delhi	Dr Asha Hegde	1,094,372.00	15.10.2013 to 14.10.2015	543,186.00	4,000.00	6/20/2014
7	Strengthening the existing Monitoring and supervision Mechanism for ICDS scheme through NIPCCD	National Institute of Public Cooperation and Child development	Dr Pawan Kumar	434,821.00	2008-2014	41,383.00	-	6/24/2014
8	Screening for Human Papilloma Virus and other DNA virus infections of the cervix among tribal women in Southern India	Indian Council of Medical Research, New Delhi	Dr Ranjitha Shetty	1,473,447.00	15.03.2014 to 14.03.2017	700,000.00		7/1/2014
9	Value of fetal autopsy and establishment of normal fetal radiologic anatomy	Indian Council of Medical Research, New Delhi	Dr K M Girisha	1,333,385.00	25.03.2011 to 24.03.2014	34,370.00		7/1/2014
10	The Impact of sperm DNA damage on Genomic instability and survival strategies in Embryonic stem cells	Government of India, Ministry of Science & Technology, Department of Science & Technology, New Delhi	Dr Satish Kumar Adiga	3,316,940.00	29.04.2010 to 28.04.2013	316,940.00		7/5/2014
11	Differences in T lymphocyte apoptosis in the granulomatous inflammation in intestinal tuberculosis and Crohn's disease - implications to diagnosis and pathogenesis	Science and Engineering Research Board, New Delhi	Dr C Ganesh Pai	5,148,000.00	14.07.2012 to 13.07.2015	800,000.00		7/5/2014

12	Understanding the Epidemiology of Antimalarial Drug Resistance in Plasmodium Vivax and Elucidation of Resistance Deterministic Host Factors For Antimalarial Drugs	Indian Council of Medical Research, New Delhi	Dr Kavitha Saravu	5,093,703.00	01.09.2012 to 31.08.2015	1,200,000.00	7/12/2014
13	Molecular Analysis of filamin b related disorders	Indian Council of Medical Research, New Delhi	Dr K M Girisha (Award of Sr. Research Fellowship to Mr Abdul Mueed Bidchol)	134,200.00	22.01.2014 to 21.01.2017	134,200.00	7/23/2014
14	Study of drug resistance in pulmonary tuberculosis cases with and without HIV co-infection in Udupi District, Coastal Karnataka.	Indian Council of Medical Research, New Delhi	Dr Kiran Chawla	3,832,956.00	01.09.2011 to 31.08.2014	706,421.00	7/23/2014
15	Hospital based sentinel surveillance of Bacterial Meningitis in India	National Institute of Epidemiology (Indian Council of Medical Research)	Dr Pushpa Kini	6,372,114.00	18.01.2012 to 17.01.2015	759,240.00	7/23/2014
16	Effect of biotin supplementation to sperm wash media on the enhancement of sperm function and pregnancy outcome in intrauterine insemination programme	Indian Council of Medical Research, New Delhi	Dr Guruprasad Kalthur	489,180.00	15.11.2013 to 14.11.2016	244,590.00	8/5/2014
17	Effect of antituberculosis drugs on gemete functional physiology, fertility potential and pre-implantation embryo	Indian Council of Medical Research, New Delhi	Dr Guruprasad Kalthur	751,760.00	15.11.2013 to 14.11.2016	275,880.00	8/5/2014

	developmental potential in mouse							
18	Repeated superovulation induced changes in the oocytes, embryos and somatic cells	Science & Engineering Research Board (SERB)	Dr Guruprasad Kalthur	2,214,400.00	26.11.2013 to 25.11..2016	700,000.00		8/6/2014
19	A clinico microbiological environmental and molecular approach to explore the epidemiology of neglected disease Melioidosis	Indian Council of Medical Research, New Delhi	Dr Chiranjay Mukhopadhyay	1,549,000.00	01.01.2014 to 31.12.2016	458,480.00		9/24/2014
20	Evaluation of multiple ligation dependent probe amplification (MLPA) for diagnosis and carrier detection in families with a dystrophinopathy	Science and Engineering Research Board, New Delhi	Dr Girisha K M	2,100,000.00	14.07.2012 to 13.07.2015	700,000.00		10/13/2014
21	Optimizing non invasive markers for embryo selection	Indian Council of Medical Research, New Delhi	Dr Satish Kumar Adiga (Award of Sr. Research Fellowship to Ms Fiona Olvitta D'souza)	393,333.00	01.05.2013 to 30.04.2016	177,000.00		10/20/2014
22	To compare the efficacy, safety and effects of Caffeine Versus Aminophylline for Apnea of Prematurity in Indian Neonates. A prospective Randomized Control Trial	Indian Council of Medical Research, New Delhi	Dr Leslie Lewis	1,976,176.00	01.03.2012 to 28.02.2015	805,096.00		10/25/2014
23	A community based prospective study to evaluate the efficacy of second dose of	Indian Council of Medical Research, New Delhi	Dr Pawan Kumar	245,570.00	01.11.2014 to 30.10.2016	107,743.00		11/14/2014

	measles vaccination under the Universal Immunization Program in coastal Karnataka							
24	Multicentric Collaborative study of the Clinical Biochemical and Molecular Characterization by Lysosomal Storage Disorders in India - The initiative for research in LSD	Indian Council of Medical Research, New Delhi	Dr Girish K M	2,343,200.00	01/11/2014 to 31/10/2017	379,680.00		1/28/2015
25	Assessment of risk Factors and predictors for spontaneous pre-term birth in a South Indian Antenatal Cohort	Indian Council of Medical Research, New Delhi	Dr Chythra R Rao	3,476,511.00	01.03.2012 to 28.02.2015	497,627.00		2/9/2015
26	Screening for Human Papilloma Virus and other DNA virus infections of the cervix among tribal women in Southern India	Indian Council of Medical Research, New Delhi	Dr Ranjitha Shetty	1,473,447.00	01.07.2014 to 30.06.2017	773,447.00		2/16/2015
27	A clinico microbiological environmental and molecular approach to explore the epidemiology of neglected disease Melioidosis	Indian Council of Medical Research, New Delhi	Dr Chiranjay Mukhopadhyay	1,549,000.00	01.01.2014 to 31.12.2016	166,186.00		2/21/2015
28	Fertility preservation using Moringa oleifera/Leaf extract in Mice Treated with Chemotherapeutic Agents and its Mechanism of Action	Indian Council of Medical Research, New Delhi	Dr Guruprasad Kalthur	1,801,012.00	25.02.2012 to 24.02.2015	587,681.00		2/24/2015

29	Behavioural biochemical and histopathological analysis of the effects of antitensin converting enzyme (ACE) inhibitors and angiotensin receptor blockers (ARBS) on learning and memory in male wister rats	Indian Council of Medical Research, New Delhi	Dr Veena Nayak	1,587,995.00	15.03.2012 to 14.03.2015	510,074.00		3/3/2015
30	Strengthening the existing Monitoring and supervision Mechanism for ICDS scheme through NIPCCD	National Institute of Public Cooperation and Child development	Dr Pawan Kumar	459,938.00	2008-2015	25,117.00		3/26/2015
						<b>14,394,092.00</b>	<b>4,000.00</b>	
<b>Fellowship</b>								
1	Molecular Analysis of filamin b related disorders	Indian Council of Medical Research, New Delhi	Dr K M Girisha (Award of Sr. Research Fellowship to Mr Abdul Mueed Bidchol)	268,400.00	22.01.2014 to 21.01.2017	134,200.00		10/27/2014
2	Effect of assisted hatching on developmental potential of the embryo etc	Indian Council of Medical Research, New Delhi	Dr Satish Kumar Adiga (Fellowship - Mr Sachin Honguntikar)	708,000.00	03.09.2014 to 02.09.2017	136,356.00		12/5/2014
						<b>270,556.00</b>		
<b>Travel Grant</b>								
1	Travel Grant for attending 2013 Annual Meeting of the National Association of Medical Examiners	Science and Engineering Research Board, New Delhi	Dr Prashanth Bhagavath	101,783.00	11/10/2013 to 15/10/2013	101,783.00		7/9/2014

2	Financial Assistance for attending 64th Annual Meeting of the American Society of Human Genetics held during 18.10.2014 to 22.10.2014 in California (USA)	Science and Engineering Research Board (SERB)	Dr Anju Shukla	117,554.00	18/10/2014 to 22/10/2014	117,554.00		2/25/2015
3	Financial Assistance for participating in Oncofertility Conf. 2014 held from 22.09.2014 to 23.09.2014 in North Western University (USA)	Science and Engineering Research Board (SERB)	Ms Shunbhashree Uppangala	108,386.00	22/09/2014 to 23/09/2014	108,386.00		3/18/2015
	<b>Total</b>					<b>327,723.00</b>		

Kasturba Medical College, Manipal								
Clinical Trials received for the period from 01.04.2014 to 31.03.2015								
1	Research Collaboration (Amendment 5th - Feb 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	2 years	73,034.00	-	4/15/2014
2	CSPP100F 2301	Novartis Healthcare Pvt Ltd	Dr Padma Kumar	855,000.00	4 years	9,000.00	-	4/25/2014
3	PROTOCOL/01/SKIN IRRITANCY/2014 - DR K L BAIRY	Apex Laboratories Private Limited	Dr K L Bairy	264,000.00	1 year	132,000.00		5/2/2014
4	PROTOCOL NO.KMC/EYE/02/2013 - DR K L BAIRY	Apex Laboratories Private Limited	Dr K L Bairy	354,400.00	1 1/2 year	177,200.00		5/2/2014
5	PROTOCOL 001/BURN STUDY/2013 - DR K L BAIRY	Apex Laboratories Private Limited	Dr K L Bairy	294,340.00	2 years	147,170.00		5/2/2014
6	KMC/NASAL/02/2013	Apex Laboratories Private Limited	Dr K L Bairy	330,000.00	1 1/2 year	165,000.00		5/2/2014
7	PROTOCOL/01/BURN WOUNDING	Apex Laboratories Private Limited	Dr K L Bairy	294,340.00	2 years	147,170.00		5/2/2014



	HEALING STUDY/14 -DR K L BAIRY							
8	ILO522D2 301	Quintiles Research (India) Pvt Ltd	Dr P S V N Sharma	800,000.00	2 years	17,602.00		5/2/2014
9	SPRL/OA/ 09-10/001	Manipal Acunova Ltd, Bangalore	Dr Vivek Pandey	1,717,820.00	2 years	155,220.00		5/12/2014
10	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	23,220.00		5/13/2014
11	CSPP100F 2301	Novartis Healthcare Pvt Ltd	Dr Padma Kumar	855,000.00	4 years	9,000.00		5/13/2014
12	Research Collaboration (Amendment 5th - March 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	2 years	73,034.00		5/20/2014
13	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	23,820.00		6/21/2014
14	WSA-CS-008	Quintiles Research (India) Pvt Ltd	Dr Sudha Vidyasagar	per patient 224,188.00	7 years	97,860.00		6/23/2014
15	CLR-10-33	Sun Pharmaceutical Industries Ltd	Dr Sudha Vidyasagar	per patient 50,000.00	6 months	8,000.00		6/24/2014
16	NC25608	Quintiles Research (India) Pvt Ltd	Dr Sudha Vidyasagar	25,556.00	6 months	25,556.00		6/27/2014
17	ILO522D2 301	Quintiles Research (India) Pvt Ltd	Dr P S V N Sharma	800,000.00	2 years	15,347.00		6/28/2014
18	A randomized cross over double blind pilot clinical trial comprising the glycemic index of coconut sap and cocount sugar in healthy human subjects	Central Plantation Crops Research Institute	Dr K L Bairy	348,000.00	6 months	104,400.00		6/20/2014
19	CAS Study project	Philips Electronics India Ltd	Dr Rajagopal KV, KMC, Manipal	325,844.00	2014-2015	81,461.00		6/27/2014
20	Research Collaboration (Amendment 5th - April 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	2 years	73,034.00		7/5/2014
21	Research Collaboration (Amendment 5th - May 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	2 years	73,034.00		7/5/2014
22	Prorocol EFC 11319	Sanofi-Synthelab India Ltd	Dr Mukhyapra na Prabhu	350,000/ subject	5 Years	9,549.00		7/9/2014

23	KMC/PHA/ ZINCOVIT SYRUP 001/2013	Apex Laboratories Private Limited	Dr K L Bairy	544,200.00	One and half year	217,680.00		7/12/2014
24	KMC/PHA/ ZINCOVIT SYRUP 002/2013	Apex Laboratories Private Limited	Dr K L Bairy	482,400.00	One and half year	192,960.00		7/12/2014
25	KMC/PHA/ ZINCOVIT SYRUP 003/2013	Apex Laboratories Private Limited	Dr K L Bairy	433,200.00	One and half year	173,280.00		7/12/2014
26	KMC/PHA/ ZINCOVIT SYRUP 004/2013	Apex Laboratories Private Limited	Dr K L Bairy	620,400.00	One and half year	248,160.00		7/12/2014
27	KMC/PHA/ ZINCOVIT DROPS 005/2013	Apex Laboratories Private Limited	Dr K L Bairy	544,200.00	One and half year	217,680.00		7/12/2014
28	KMC/PHA/ ZINCOVIT DROPS 006/2013	Apex Laboratories Private Limited	Dr K L Bairy	482,400.00	One and half year	192,960.00		7/12/2014
29	KMC/PHA/ ZINCOVIT DROPS 007/2013	Apex Laboratories Private Limited	Dr K L Bairy	433,200.00	One and half year	173,280.00		7/12/2014
30	KMC/PHA/ ZINCOVIT DROPS 008/2013	Apex Laboratories Private Limited	Dr K L Bairy	620,400.00	One and half year	248,160.00		7/12/2014
31	KMC/ZVT/ 01/2014	Apex Laboratories Private Limited	Dr K L Bairy	429,960.00	One and half year	257,976.00		7/16/2014
32	KMC/ZVT/ 02/2014	Apex Laboratories Private Limited	Dr K L Bairy	429,960.00	One and half year	257,976.00		7/16/2014
33	NIS-CAP- XXX- 2011/1- EPICOR ASIA	Max neeman Medical International Limited	Dr Tom Devasia	250,000.00	2 Years	19,000.00		8/12/2014
34	EX2211- 3748	Novo Nordisk India Pvt Ltd	Dr Sudha Vidyasagar	7,000,000.00	5 Years	190,774.00		8/14/2014
35	BRV07	Shantha Biotechnics Limited	Dr Avinash Shetty	1,906,000.00	2 Years	285,900.00		8/14/2014
36	CSPP100F 2301	Novartis Healthcare Pvt Ltd	Dr Padma Kumar	855,000.00	4 Years	9,000.00		8/20/2014
37	Research Collaborati on (Amendme nt 5th - June 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	2 years	73,034.00		8/25/2014
38	ILO522D2 301	Quintiles Research (India) Pvt Ltd	Dr P S V N Sharma	800,000.00	2 years	25,276.00		8/29/2014
39	P O # INXI- 250052045( SC# 8739658) for data collection study on ICU Patients	Philips India Ltd	Dr Sudha Vidyasagar, Dept of Medicine, KMC, Manipal			123,596.00		8/20/2014

40	Sponsor for reimbursement of Hospital expenses of patient in trail protocol title CIL0522D2 301	Novartis Healthcare Pvt Ltd	Dr PSV Sharma, Dept Psychaitry, KMC, Manipal			118,779.16		8/12/2014
41	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	31,760.00		9/3/2014
42	Research Collaboration (Amendment 6th - July 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	6 Month	73,034.00		9/19/2014
43	CSPP100F 2301	Novartis Healthcare Pvt Ltd	Dr Padma Kumar	855,000.00	4 Years	18,000.00		9/16/2014
44	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	31,760.00		9/23/2014
45	EFC11319	Sanofi-Synthelab India Ltd	Dr Mukhyapra na Prabhu	350,000/subject	5 Years	259,800.00		9/23/2014
46	CT-P6/3.1	Parexel International Clinical Research Private Limited	Dr Donald Fernandes	2,77,877/subject	3 Years	427,082.00		9/29/2014
47	KMC/Zinc oderm G/01/2013	Apex Laboratories Private Limited	Dr K L Bairy	521,400.00	1 Year 6 Month	208,560.00		9/29/2014
48	KMC/Zinc oderm GM/02/2013	Apex Laboratories Private Limited	Dr K L Bairy	444,840.00	1 Year 6 Month	177,936.00		9/29/2014
49	Rota :03/12	Serm Institute of India Ltd	Dr Veena Kamath	200,000.00	2 Years	200,000.00		9/29/2014
50	ILO522D2 301	Quintiles Research (India) Pvt Ltd	Dr P S V N Sharma	800,000.00	2 Years	13,699.00		9/26/2014
51	ECG Study- Efficia ECG100 Training @ KMC Manipa & TMA Pai Hospital Udipi	Philips India Ltd	Dr Ranjan Shetty, KMC, Manipal			23,596.00		9/5/2014
52	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	31,760.00		10/15/2014
53	Research Collaboration (Amendment 6th - Aug 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	6 month	73,034.00		10/23/2014
54	Cas Study Poject	Philips India Ltd	Dr Rajagopal K V, KMC			81,461.00		10/1/2014
55	Research Collaboration (Amendment)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	6 months	73,034.00		11/4/2014

	nt 6th - Sep 2014)							
56	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	15,880.00		11/19/2014
57	Cas Study Project	Philips India Ltd	Dr Rajgopal K V, KMC, Manipal			81,461.00		11/14/2014
58	3 Nethra Royal Clinical trial	Forus Health Pvt Ltd	Dr Lavanya G Rao	700,000.00	4 months	250,000.00		12/16/2014
59	Research Collaboration (Amendment 6th - Oct 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	6 months	73,034.00		12/16/2014
60	Case Report preparation	Boehringer Ingelheim India Pvt Ltd	Dr K L Bairy	61,000.00	-	61,000.00		12/17/2014
61	Research Collaboration (Amendment 6th - Nov 2014)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	438,204.00	6 months	73,034.00		12/18/2014
62	Registry Study	St John National Academy of Health Science, Bangalore	Dr Sudha Vidyasagar	150,000.00	Until completion of the Registry	150,000.00		12/24/2014
63	3 D Ultrasound visualization of anatomical structures & applicatoe in brachthermal y for cervical cancer treatment	Philips India Ltd	Dr Vidya Sagar, KMC, Manipal			112,360.00		12/16/2014
64	Consultancy Charges for Bilrubin Plasma Sepration Experiments	Philips India Ltd	Dr Pragna Rao, Dept of Biochemistry, KMC, Manipal			23,596.00		12/16/2014
65	ICU - Enrollment for 300 Patients @ Both KMC , Manipal & M'lore	Philips India Ltd	Dr Sudha Vidyasagar			674,160.00		
66	Consultancy Charges for sepcific research plan for amazon release A.01	Philips India Ltd	Dr Raviraj Acharya, Dept of Medicine, KMC, Manipal			104,492.00		12/31/2014
67	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	7,940.00		1/17/2015
68	Research Collaboration	Intel Technology India Pvt	Dr Raviraj Acharya	438,204.00	6 months	73,034.00		1/27/2015

	(Amendment 6th - Dec 2014)	Limited						
69	SPRL/OA/09-10/001	Manipal Acunova Ltd, Bangalore	Dr Vivek Pandey	1,717,820.00	2 years	404.00		1/28/2015
70	A randomized cross over double blind pilot clinical trial comprising the glycemic index of coconut sap and cocount sugar in healthy human subjects	Central Plantation Crops Research Institute	Dr K L Bairy	348,000.00	6 months	243,600.00		1/31/2015
71	ABB-09-001	Max Neeman Medical International Ltd	Dr Dinesh Nayak	3000 Euro/patient	3 years	501,071.00		2/4/2015
72	KMC/Agel ess Liquid/01/2014	Apex laboratories Pvt Ltd	Dr K L Bairy	680,400.00	One and half year	408,240.00		2/3/2015
73	KMC/Agel ess Liquid/03/2015	Apex laboratories Pvt Ltd	Dr K L Bairy	752,400.00	One and half year	451,440.00		2/3/2015
74	CSPP1002301	Novartis Healthcare Pvt Ltd	Dr Padma Kumar	855,000.00	4 years	9,000.00		2/7/2015
75	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	7,940.00		2/7/2015
76	EX2211-3748	Novo Nordisk India Pvt Ltd	Dr Sudha Vidyasagar	7,000,000.00	5 years	14,188.00		2/7/2015
77	CQVA149 A318	Novartis Healthcare Pvt Ltd	Dr Aswini Kumar Mohapatra	16,520.00	1Year	1,520.00		2/7/2015
78	TIPS-3	Cadila Pharmaceutica ls Ltd	Dr Sudha Vidyasagar	56,000/per subject	6 years	15,000.00		2/11/2015
79	BRV07	Shantha Biotechnics Limited	Dr Avinash Shetty	1,906,000.00	2 Years	190,600.00		2/13/2015
80	SRPL/OA/09-10/001	Manipal Acunova	Dr Vivek Pandey	1,717,820.00	2 years	89,523.00		2/16/2015
81	Research Collaboration (Amendment 7th - Jan 2015)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	219,102.00	3 months	73,034.00		2/26/2015
82	Specific Research plan for clear Vue Opal Engineering/Marketing clinical study(ECS/MCS)	Philips India Ltd	Dr Rajgopal KV, Dept of Radiodiagnosis, KMC, Manipal			303,372.00		2/12/2015
83	Optimization of the fat suppressed	Philips India Ltd	Dr Rajgopal KV, Dept			210,737.00		2/12/2015

	3D T2 sequence combined with motion sensitizing iMSDE Pre-pulse for Imaging for evaluation of the large proximal nerve elements of the peripheral nerves		of Radiodiagnosis, KMC, Manipal					
84	3D Ultrasound visualization of anatomical structures & applicator in brachtherapy for cervical cancer treatment	Philips India Ltd	Dr Vidaysagar, KMC, Manipal			325,423.00		2/20/2015
85	CACZ885 M2301	Novartis Healthcare Pvt Ltd	Dr Tom Devasia	1,658,600.00	4 years	47,640.00		3/3/2015
86	ILO522D2 301	Quintiles Research (India) Pvt Ltd	Dr P S V N Sharma	800,000.00	2 Years	18,077.00		3/7/2015
87	Research Collaboration (Amendment 7th - Feb 2015)	Intel Technology India Pvt Limited	Dr Raviraj Acharya	219,102.00	3 months	73,034.00		3/17/2015
	<b>Total</b>					<b>11,074,532.16</b>		

**Foreign grants received for the period from 01.04.2014 to 31.03.2015**

#	Name of the Project	Name of the donor /grantor	Principal Investigator	Amount approved	Duration of the Project	Amount received in current month		Date of Receipt of the amount
						Operating	Capital	
1	Risk factor for stroke in an Indian population & prediction of algorithms for first ever stroke & stroke outcome	Xerox Corporation	Dr Ranjan Shetty, KMC Manipal		2 years, starting March 1st 2014	1,496,781.20		4/10/2014
2	Student Exchange Programme	University Medish Centrum				143,774.80		4/3/2014
3	Student Exchange Programme	University Medish Centrum				304,524.52		4/23/2014

4	Accommodation & Education Program Affiliation Fee for Students	University Medish Centrum				329,979.90		4/30/2014
5	Student Exchange Programme	Gronigen				31,839.50		4/22/2014
6	A System using videoplethy smography for monitoring cardiac patients	Xerox Corporation, USA	Dr Ranjan Shetty, KMC, Manipal	USD 20000	2 years 01.03.2014 to 01.03.2016	595,490.36		7/10/2014
7	Rota Virus vaccine trail	Program for appropriate technology in Health, Washington	Dr Veena Kamath, Community Medicine, KMC, Manipal	USD 860372	1st May 2014 to 31st Dec 2016	8,257,461.00		7/16/2014
8	Rota Virus vaccine trail	Program for appropriate technology in Health, Washington	Dr Veena Kamath, Community Medicine, KMC, Manipal	USD 860372	1st May 2014 to 31st Dec 2016	7,469,932.56		2/9/2015
	Total					<b>18,629,783.84</b>		

## 18. Inter-institutional collaborative projects and associated grants received

### a) National collaboration b) International collaboration

No inter-institutional collaborative projects are available

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

Please refer **Q.no. 16** above

## 20. Research facility / centre with

- state recognition
- national recognition
- international recognition

NIL

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

NIL

## 22. Publications last three years

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

**National publications: 204 in the year 2014**

1. Achar, Shreepathi Krishna and Chaudhuri, Souvik and Krishna, HM and Sagar, MS (2014) Re-expansion Pulmonary Oedema – Differential Lung Ventilation Comes to the Rescue. *Indian Journal of Anaesthesia*, 58 (3). pp. 330-333. ISSN 0019-5049
2. Adiga, PK and Lavanya, Rai and Hebbar, Shripad S and Lakshmi, Rao (2014) Paraplegia due to spinal cord compression caused by vascular hemangioma in pregnancy. *IJRRMS*, 4 (1). pp. 22-24.
3. Adiga, Shalini (2014) Knowledge, attitude and practices related to dietary supplements and micronutrients in health sciences students. *Journal of Clinical and Diagnostic Research*, 8 (8). HC10-HC13. ISSN 0973-709X
4. Adiga, Shalini and Chogtu, Bharti and Mohapatra, Aswini Kumar and Magazine, Rahul (2014) Comparing the efficacy and influence on the quality of life of three classes of drugs used in bronchial asthma - A prospective study. *Journal of Clinical and Diagnostic Research*, 8 (9). HC13-HC15. ISSN 0973-709X
5. Adiga, Shripathi H and Kranthi, \* and Kamath, Madhusudhan (2014) Anti-bacterial Activity of *Jasminum grandiflorum* linn And *Tectonia grandis* using Coconut oil as Media of Extraction. *Asia Pacific Journal of Research*, 1 (16). pp. 96-99. ISSN 2347-4793
6. Amin, Sapna Vinit and Siddesh, Anjurani and Baratnur, Sunanda and Hebbar, Shripad S (2014) Retain womb in retained placenta: hysterotomy for retained bilobed placenta in a preterm angular pregnancy. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*, 3 (4). pp. 1122-1124. ISSN 2320-1770
7. Ankolekar, Vrinda Hari and D'Souza, Anne and Mamatha, H and D'Souza, Antony Sylvan (2014) Morphometric analysis of corpus callosum in relation to brain size in fetuses of South Indian population. *International Journal of Research in Medical Sciences*, 2 (1). pp. 108-111. ISSN 2320 - 6071
8. Ankolekar, Vrinda Hari and D'Souza, Antony Sylvan and Quadros, Lydia S and Mamatha, H and Suhani, S and Bangera, Hemalatha S and Radhakrishnan, \* (2014) Various Anomalies of the Thorax. *Nitte University Journal of Health Science*, 4 (1). pp. 138-140. ISSN 2249-7110



9. Ankolekar, Vrinda Hari and Das, Aswin and D'Souza, Anne and D'Souza, Antony Sylvan and Mamatha, H (2014) Tetracuspid right atrioventricular valve: A case report. *International Journal of Health Sciences & Research*, 4 (11). pp. 253-255. ISSN 2249-9571
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#### **International Publications: 256 during 2014**

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\* [Monographs](#)

\* [Chapters in Books](#) - 44

Name of Book	Chapter/s	Details Faculty members	Publisher
<b>Department of Dermatology</b>			
Comprehensive Text book of Sexual Medicine	Sexually transmitted infections	Dr. Sathish Pai B	Jaypee publisher
Interesting cases in dermatology	Contact dermatitis to ketoconazole shampoo	Dr. Sudhir Nayak U.K	IJCP, New Delhi
Pigmentary Disorders : A comprehensive Compendium	Quality of life in Pigmentary Disorders.	Sudhir Nayak U.K., Smitha Prabhu, Shrutakirthi D Sheno	Jaypee Brothers
Basic science for Modern Cosmetic Dermatology	Ultraviolet – induced skin damage and its prevention with sunscreen	Sathish Pai B	Jaypee, New Delhi
Hair & Hair disorders diagnosis & management	Psychosomatic hair disorders	Smitha Prabhu, Sudhir Nayak UK, Shrutakirthi D Sheno	Jaypee, New Delhi
Dermatosurgery made easy	Suction blister grafting	Dr. S.D Sheno Dr.Raghavendra Rao	Jaypee Brothers
Dermatosurgery made easy	Punch grafting in vitiligo	Dr. S.D Sheno Dr.Raghavendra Rao	Jaypee Brothers
Dermatosurgery made easy	Lateral matrix phenolization for ingrowing toe nail	Dr. S.D Sheno Dr.Raghavendra Rao	Jaypee Brothers
Pigmentary disorders A comprehensive compendium	Quality of Life in pigmentary disorders	Dr. Sudhir Nayak U.K., Dr. Smitha Prabhu, Dr.Shrutakirthi D Sheno	Jaypee Brothers Medical Publishers(P) Ltd
Sexually transmitted	Sexually transmitted diseases	Dr. Sathish Pai B, Dr. C.	Elsevier India

infections		Balachandran	
Vitiligo – What’s New, What’s True	Vitiligo in India – Problems and Perspectives	Dr. Sathish Pai	WHA/VR Foundation
Contact Dermatitis	metal allergy	Dr. Smitha Prabhu Dr. S.D. Sheno	
Contact Dermatitis	procurement of patch test antigens and series	Dr. Smitha Prabhu Dr. S.D. Sheno	
Sexually transmitted infections 2nd ed.	– Endemic Treponematoses	C. Balachandran, Sathish Pai B	Elsevier,
IADVL’s Concise textbook of dermatology.	Photosensitive disorders	Sathish Pai B.	Wiley – Blackwell,
IADVL’s Concise textbook of dermatology.	Eczema	Smitha Prabhu	
<b>Department of OBG</b>			
Hypertension Disorders of Pregnancy Eds Arul kumaran, Sanjay Gupte, E Fernandes,	Time and Mode of Delivery	Lavanya Rai	Japee publishers 2014
Intrauterine Insemination: Evidence Based Guidelines	Factors Influencing IUI Outcome: Weight Influences, p. 39-42	Pratap Kumar	CRC Press, 2014.
Safe Motherhood Initiative – A Silet Revolution”. First Editon:.	Role of Teaching Institutions for Safe Motherhood Initiative: Beyond the Hospital . Page-249-254	Pratap Kumar	Jaypee Brother Medical Publisher Pvt. Ltd.
Complicated cases in high risk pregnancy and labor	“Thrombophilia in pregnancy” .. Vol.1;2012: page 83-100	Pratap Kumar	Kontentworx, a division of KWX Communications



Manual of Endometriosis	Endometriosis & Infertility	Dr Pratap Kumar	Jaypee Publishers
ECAB clinical update Obs & Gynaec	Lutela phase insufficiency	Dr Pratap Kumar	Elsevier
Obstetric hemorrhage	Practical Obstetrics	Dr Muralidhar V Pai	Orient Longman
Unexplained Infertility	Principles & Practice of Assisted Reproductive Technology	Dr Pratap Kumar	Jaypee Brother Medical Publishers Pvt Ltd
Hypertensive disease of pregnancy	Time and mode of delivery in hyper tension complicating pregnancy	Dr Lavanya Rai	Jaypee Brother Medical Publishers Pvt Ltd
Polycystic Ovarian Disease	Insights into Infertility Management	Dr. Pratap Kumar	Jaypee Publishers.
Donald School Manual of Practical Problems in Obstetrics	Vaginitis in Pregnancy	Dr. Pratap Kumar	Jaypee Publishers
Key Opinions on Multifaceted Aspects of Dydrogesterone	Dydrogesterone in Recurrent Miscarriage	Pratap Kumar	
Donald Text Book of Obstetrics	Chicken pox in pregnancy	Lavanya Rai,	Jaypee Publishers
<b>Department of Medicine</b>			
API text book of Medicine -10 <sup>th</sup> ED	On "Melioidosis"	Dr Kavitha Saravu	Jaypee Brothers
World Clinics in Diabetology - Type 2 Diabetes Mellitus	Sulphonylureas-in press	Dr. Sudha Vidyasagar	
API medicine update 2013	Polycythemia Vera	Dr Sudha Vidyasagar	API
API medicine update 2013	Practical guidelines in hypertension management	Dr N R Rau	API
		Dr Satish K Nayak	

<b>Department of ENT</b>			
Recent advances in management of ENT disease	Otitis media	Dr. Dipak Ranjan Nayak & Dr. Balakrishnan R	CBS Publishers
<b>Department of Urology</b>			
Evaluation and Management of Erectile dysfunction- Comprehensive Textbook of Sexual Medicine	Chapter 26, 2 <sup>nd</sup> Edition	Dr Arun Chawla	Quality of Life Research & Development foundation.
	2013	Additional Professor of Urology	
<b>Department of Psychiatry</b>			
Development of Psychiatry in India Clinical Research & policy perspectives	Newer somatic treatments: Indian experience	Dr. Rishikesh VB	
		Asst. Professor	
		Dept. of Psychiatry	
		Kasturba Hospital, Manipal.	
<b>Department of Neuro Surgery</b>			
Manipal Manual of Surgery – 4 <sup>th</sup> edition	Neurosurgery templates	Dr. Sunil Upadhyaya	CBS
<b>Department of Medical Genetics</b>			
API Textbook of Medicine	Molecular genetics, human genome project and genomic medicine	Dr Girisha KM	Associated Physicians of India
<b>Department of Radio diagnosis</b>			
Infections of the Gastrointestinal System	“Imaging of gastrointestinal infections”	Dr Rajagopal KV,	Jaypee brothers, Medical Publishers (P) Ltd, 4838/24, Ansari Road, Dariyaganj, New Delhi

<b>Department of Ayurveda</b>			
Successful ayurvedic approach to obesity(Sthoulya) - A Clinical Study		Dr.K.J.Malagi,	-
<b>Department of Pathology</b>			
LAP LAMBERT	Bcl-2 Expression in Prostatic Adenocarcinoma: A study of histological features and Bcl-2 expression in prostatic adenocarcinoma-pre and post ablation,	Dr. Bhavna Nayal , Dr. Mary Mathew, Dr. Joseph Thomas.	Academic Publishing
LAP LAMBERT	Prognostic Indices in IgA Nephropathy: A ten year clinicopathological study.	Dr. Mary Mathew, Dr. Vijay Amritraj.	Academic Publishing,
<b>Department of Community Medicine</b>			
Profession Social Work Research Perspectives	Reprocutive health needs of rural adolescents girls- A Qualitative study	Lena Ashok, Asha Kamath & G Veena Kamath	Authorspress
<b>Department of Microbiology</b>			
	Cryptococcus spp. Complex in peninsular India: A clinco-mycological approach	Peralam Yegneswaran Prakash	Lambert Academic Publishing

## \* Books edited –15

<b>Name of Book</b>	<b>Details Faculty members</b>	<b>Publisher</b>
<b>Department of Anatomy</b>		
Text Book of Histology	Dr. Antony Sylvan D'Souza, Professor, Dept. of Anatomy, KMC, Manipal & Dr. Kumar M R Bhat, Additional Professor, Dept. of Anatomy, KMC, Manipal	PUG Publications Pvt. Ltd., Chennai

<b>Department of Biochemistry</b>		
Quick Review of Biochemistry for Undergraduates	Dr Krishnananda Prabhu R V	Jaypee
Pharmacology for dentistry 2nd Edition 2014	Dr. Smita Shenoy, Additional Professor, Department of Pharmacology, KMC, Manipal Dr. Veena Nayak, Associate Professor, Department of Pharmacology, KMC, Manipal	
<b>Department of Surgery</b>		
Manipal Manual of Surgery – 4 <sup>th</sup> Edition	Dr. Rajgopal Shenoy	CBS Publishers
Manipal Manual for Dental Students – 3 <sup>rd</sup> Edition	Dr. Rajgopal Shenoy	CBS Publishers
<b>Department of Orthopaedics</b>		
Manipal Orthopaedics:short case viva voce	Dr.Vivek Pandey	
<b>Department of ENT</b>		
Manipal Manual of Endoscopic sinus surgery - Revised 2 <sup>nd</sup> addition	Authors Dr. D.R Nayak,	CBS Publishers
<b>Department of OBG</b>		
Jeffcoate's Principles of Gynaecology (8 <sup>th</sup> Edition).	Pratap Kumar	Jaypee Brothers (P) Ltd
<b>Dept. of Pharmacology</b>		
Preparatory Manual for Undergraduates: Pharmacology – 2 <sup>nd</sup> Edition	Dr. Smita Shenoy, Additional professor Department of Pharmacology, KMC, Manipal	Elsevier India Private Limited
<b>Department of ENT</b>		
1.Text book of Ear, Nose, Throat and Head & Neck Surgery – Clinical	Authors : Dr. P.Hazarika, Dr. D.R Nayak, Dr. R. Balakrishnan,	CBS Publishers

& Practical - Revised third addition		
<b>Department of Medicine</b>		
Manipal Manual of Clinical Medicine – Second edition	Dr B A Shastry	CBS Publishers and Distributors.
<b>Department of Surgery</b>		
Essential Clinical Surgery	Dr. Stanley Mathew	
<b>Department of Community Medicine</b>		
R Manual for Health Science Researchers	Asha Kamath, Sreelatha Meleth, Nalini Sathiakumar	First ed. MUP Manipal, March 2012.
<b>Dept. of Cardiology</b>		
Healthy Heart – An aid to staying fit	Dr. Ranjan Shetty	
<b>Department of Anaesthesiology</b>		
Manipal Handbook of Resuscitation _ II Edition	Dr Ramkumar Venkateswaran, Dr Anitha Shenoy, Dr Cherish Paul, Dr Jasvinder Kaur, Dr Krishna HM, Dr Manjunath Prabhu, Dr Nanda Shetty, Dr Prasad KN, Dr Shwethapriya R, Ms Thara Ganesh, Dr Umesh G, Dr Shreepathi K Achar	

\* Books with ISBN with details of publishers

Name of Book	Details Faculty members	Publisher	ISBN
Department of Anatomy			
Text Book of Histology	Dr. Antony Sylvan D'Souza, Professor and Head, Dept. of Anatomy, KMC, Manipal & Dr. Kumar M R Bhat, Additional Professor, Dept. of Anatomy, KMC, Manipal	PUG Publications Pvt. Ltd., Chennai	-

<b>Department of Biochemistry</b>			
Quick Review of Biochemistry for Undergraduates	Dr Krishnananda Prabhu R V	Jaypee	978-93-515220-96
<b>Department of Pharmacology</b>			
Pharmacology for dentistry 2nd Edition 2014	Dr. Smita Shenoy, Additional Professor, Department of Pharmacology, KMC, Manipal Dr. Veena Nayak, Associate Professor, Department of Pharmacology, KMC, Manipal		978-81-31234-556
<b>Department of Surgery</b>			
Manipal Manual of Surgery – 4 <sup>th</sup> Edition	Dr. Rajgopal Shenoy	CBS Publishers	978-81-23924-168
Manipal Manual for Dental Students – 3 <sup>rd</sup> Edition	Dr. Rajgopal Shenoy	CBS Publishers	978-81-23924-090
<b>Department of Orthopaedics</b>			
Manipal Orthopaedics:short case viva voce	Dr.Vivek Pandey		978-81-23925-172
<b>Department of ENT</b>			
Manipal Manual of Endoscopic sinus surgery - Revised 2 <sup>nd</sup> addition	Authors Dr. D.R Nayak,	CBS Publishers	978-81-23922-928
<b>Department of OBG</b>			
Jeffcoate's Principles of Gynaecology (8 <sup>th</sup> Edition).	<b>Pratap Kumar</b>	Jaypee Brothers (P) Ltd	978-93-51521-495

<b>Dept. of Pharmacology</b>			
Preparatory Manual for Undergraduates: Pharmacology – <b>2<sup>nd</sup> Edition</b>	Dr. Smita shenoy Additional professor Department of Pharmacology KMC, Manipal	Elsevier India Private Limited	978-81-31228-128
<b>Department of ENT</b>			
1.Text book of Ear, Nose, Throat and Head & Neck Surgery – Clinical & Practical - Revised third addition	Authors : Dr. P.Hazarika, Dr. D.R. Nayak, Dr. R. Balakrishnan	CBS Publishers	978-81-23923-161
<b>Department of Medicine</b>			
Manipal Manual of Clinical Medicine – Second edition	Dr B A Shastry	CBS Publishers and Distributors.	978-81-23922-652
<b>Department of Surgery</b>			
Essential Clinical Surgery	Dr. Stanley Mathew		978-93-50877-371
<b>Department of Community Medicine</b>			
R Manual for Health Science Researchers	Asha Kamath, Sreelatha Meleth, Nalini Sathiakumar	Ø First ed. MUP Manipal, March 2012.	978-81-92275-925
<b>Dept. of Cardiology</b>			
Healthy Heart – An aid to staying fit	Dr. Ranjan Shetty		978-83-82460-018



Department of Anaesthesiology			
Manipal Handbook of Resuscitation _ II Edition	Dr Ramkumar Venkateswaran, Dr Anitha Shenoy, Dr Cherish Paul, Dr Jasvinder Kaur, Dr Krishna HM, Dr Manjunath Prabhu, Dr Nanda Shetty, Dr Prasad KN, Dr Shwethapriya R, Ms Thara Ganesh, Dr Umesh G, Dr Shreepathi K Achar		-

- \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.) – **Please refer below table**
- \* Citation Index – range / average – **Please refer below table**
- \* SNIP – **Please refer below table**
- \* SJR – **Please refer below table**
- \* Impact Factor – range / average – **Please refer below table**
- \* h-index – **Please refer below table**

<b>Scopus Analysis-2014</b>				
Total Documents indexed in Scopus in the year 2014: 380				
Total No. of citation: 138				
Average No. of citation: 2.8				
SJR:As mentioned against each title below				
SNIP:As mentioned against each title below				
h-index: 4				
#	Title	Source title	SJR	SNIP
1	Beneficial effect of <i>Cissus quadrangularis</i> linn. on osteopenia associated with streptozotocin-induced type 1 diabetes mellitus in male Wistar rats	Advances in Pharmacological Sciences	0.691	0.97
2	Assessment of learning styles of undergraduate medical students using the VARK questionnaire and the influence of sex and academic performance	Advances in Physiology Education	0.372	0.781
3	Compliance with iron-folic acid (IFA) therapy among pregnant women in an urban area of South India	African Health Sciences	0.434	0.822
4	Cutaneous neurocristic hamartoma presenting as cutis verticis gyrata	American Journal of Dermatopathology	0.516	0.922
5	An autopsy case of iatrogenic tracheoesophageal fistula secondary to tracheostomy	American Journal of Forensic Medicine and Pathology	0.441	0.796
6	Eight years experience from a skeletal dysplasia referral center in a tertiary hospital in Southern India: A model for the diagnosis and treatment of rare diseases in a developing country	American Journal of Medical Genetics, Part A	1.042	0.991
7	Fetal akinesia deformation sequence: Expanding the phenotypic spectrum	American Journal of Medical Genetics, Part A	1.042	0.991
8	GALNS mutations in Indian patients with mucopolysaccharidosis IVA	American Journal of Medical Genetics, Part A	1.042	0.991
9	A syndrome of facial dysmorphism, cubital pterygium,	American Journal of	1.042	0.991

	short distal phalanges, swan neck deformity of fingers, and scoliosis	Medical Genetics, Part A		
10	A novel mutation (g.106737G>T) in zone of polarizing activity regulatory sequence (ZRS) causes variable limb phenotypes in Werner mesomelia	American Journal of Medical Genetics, Part A	1.042	0.991
11	Mutation spectrum of COL1A1 and COL1A2 genes in Indian patients with osteogenesis imperfecta	American Journal of Medical Genetics, Part A	1.042	0.991
12	Interstitial lung disease probably caused by imipramine	American Journal of Therapeutics	0.389	0.521
13	The effect of tranexamic acid on hemoglobin levels during total knee arthroplasty	American Journal of Therapeutics	0.389	0.521
14	Hyperprolactinemia with aripiprazole: Understanding the paradox	American Journal of Therapeutics	0.389	0.521
15	Acute dystonia, akathisia, and parkinsonism induced by ziprasidone	American Journal of Therapeutics	0.389	0.521
16	Bupropion precipitating acute psychosis: A case report	American Journal of Therapeutics	0.389	0.521
17	National Epilepsy Surgery Support Activity	Annals of Indian Academy of Neurology	0.272	0.687
18	Non-invasive estimation of pulmonary vascular resistance in patients of pulmonary hypertension in congenital heart disease with unobstructed pulmonary flow	Annals of Pediatric Cardiology	0.297	0.715
19	Perception and practices of standard precautions among health care professionals at tertiary care hospitals in coastal South India	Asian Journal of Pharmaceutical and Clinical Research	0.4	0.786
20	Open versus closed lateral internal anal sphincterotomy in the management of chronic anal fissures: A prospective randomized study	Asian Journal of Surgery	0.317	0.591
21	Chemoradiation related acute morbidity in carcinoma cervix and correlation with hematologic toxicity: A South Indian prospective study	Asian Pacific Journal of Cancer Prevention	0.641	1.007
22	Dengue encephalitis-A rare manifestation of dengue fever	Asian Pacific Journal of Tropical Biomedicine	0.587	1.414
23	Evaluation of usefulness of pleural fluid adenosine deaminase in diagnosing tuberculous pleural effusion from empyema	Asian Pacific Journal of Tropical Disease	0.34	0.726
24	Retrospective correlation of fasting glucose and glycated hemoglobin with serum electrolytes, urea and creatinine in diabetic patients	Asian Pacific Journal of Tropical Disease	0.34	0.726
25	Biochemical markers in saliva of patients with oral squamous cell carcinoma	Asian Pacific Journal of Tropical Disease	0.34	0.726
26	Case of a subcutaneous nodule	Asian Pacific Journal of Tropical Disease	0.34	0.726
27	Clinical profile of urinary tract infections in diabetics and non-diabetics	Australasian Medical Journal	0.234	0.607
28	An unorthodox innervation of the gluteus maximus muscle and other associated variations: A case report	Australasian Medical Journal	0.234	0.607
29	Bilateral variations of brachial plexus involving the median nerve and lateral cord: An anatomical case study with clinical implications	Australasian Medical Journal	0.234	0.607
30	Team-based learning as a teaching strategy for first-year medical students	Australasian Medical Journal	0.234	0.607
31	The effectiveness of self-directed learning (SDL) for teaching physiology to first-year medical students	Australasian Medical Journal	0.234	0.607
32	An unusual right popliteal vein aneurysm in an adult cadaver: A case report	Australasian Medical Journal	0.234	0.607
33	Recent trend of multi-drug resistance in pseudomonas aeruginosa	Bangladesh Journal of Medical Science	0.166	0.228
34	Utility of C-terminal telopeptide in evaluating levothyroxine replacement therapy-induced bone loss	Biomarker Insights	0.819	0.705
35	Synthesis, characterization, and preclinical evaluation of new thiazolidin-4-ones substituted with p-chlorophenoxy acetic acid and clofibrac acid against insulin resistance and metabolic disorder	BioMed Research International	0.613	0.576

36	Automatic extraction of vertebral endplates from scoliotic radiographs using customized filter	Biomedical Engineering Letters	0.268	0.649
37	In vivo morphometry of menisci of the knee in South Indians: A preliminary study	Biomedical Journal	0.728	0.929
38	Automated classification of glaucoma stages using higher order cumulant features	Biomedical Signal Processing and Control	0.464	1.233
39	Meal induced dyslipidemia in type 2 diabetes mellitus	Biomedicine (India)	0.131	0.073
40	Intuitive weights of harm for therapeutic decision making in smear-negative pulmonary Tuberculosis: An interview study of physicians in India, Pakistan and Bangladesh	BMC Medical Informatics and Decision Making	0.717	0.967
41	Langerhans cell histiocytosis presenting as hypothyroid goitre: A unique presentation	BMJ Case Reports	0.125	0.159
42	Angiomyoma presenting as a painful subcutaneous mass: A diagnostic challenge	BMJ Case Reports	0.125	0.159
43	Intranasal lobular capillary haemangioma	BMJ Case Reports	0.125	0.159
44	Refluxing supernumerary kidney: Easy to overlook	BMJ Case Reports	0.125	0.159
45	AS, DISH or something else?	BMJ Case Reports	0.125	0.159
46	Chryseobacterium indologenes pneumonia in a patient with non-Hodgkin's lymphoma	BMJ Case Reports	0.125	0.159
47	A rare case of coexisting left pulmonary hypoplasia and right tracheal bronchus	BMJ Case Reports	0.125	0.159
48	Mechanical ventilation-induced 'pneumoangiogram' of cerebral vessels in a trauma patient	BMJ Case Reports	0.125	0.159
49	Fatal measles presenting as acute respiratory distress syndrome in an immunocompetent adult	BMJ Case Reports	0.125	0.159
50	Community-acquired multidrug-resistant Gram-negative bacterial infective endocarditis	BMJ Case Reports	0.125	0.159
51	Crescent-shaped extensive pericardial calcification	BMJ Case Reports	0.125	0.159
52	A young woman with seizures and psychosis	BMJ Case Reports	0.125	0.159
53	Persistent singultus as presenting symptom of syringobulbia	BMJ Case Reports	0.125	0.159
54	Image guided biopsy of the pleura: A useful diagnostic tool even when fluid is minimal	BMJ Case Reports	0.125	0.159
55	Intracerebral bleed, right haemiparesis and seizures: An atypical presentation of vivax malaria	BMJ Case Reports	0.125	0.159
56	Unexplained extensive calcification of the venae cavae extending into the right atrium causing partial obstruction of the tricuspid valve	BMJ Case Reports	0.125	0.159
57	Acute hepatitis E complicated by acute pancreatitis and multiorgan dysfunction	BMJ Case Reports	0.125	0.159
58	Evaluation of mild encephalitis/encephalopathy with a reversible splenial lesion (MERS) by diffusion-weighted and diffusion tensor imaging	BMJ Case Reports	0.125	0.159
59	Haemolytic anaemia - PNH type II cells presenting a diagnostic dilemma	BMJ Case Reports	0.125	0.159
60	Bilateral sclerosing orbital pseudotumour in an adult	BMJ Case Reports	0.125	0.159
61	A rare case of racemose neurocysticercosis of the posterior fossa	BMJ Case Reports	0.125	0.159
62	Persistent left superior vena cava in association with sinus venosus defect type of atrial septal defect and partial pulmonary venous return on 64-MDCT	BMJ Case Reports	0.125	0.159
63	Acute Marchiafava-Bignami disease: Clinical and serial MRI correlation	BMJ Case Reports	0.125	0.159
64	Hot and cold: Coexistent Graves' disease and Hashimoto's thyroiditis in a patient with Schmidt's syndrome	BMJ Case Reports	0.125	0.159
65	Adenocarcinoma of the duodenojejunal flexure presenting as a stricturous lesion	BMJ Case Reports	0.125	0.159
66	Thorn-induced pseudotumour of the fibula	BMJ Case Reports	0.125	0.159
67	Dual left anterior descending artery circulation: A rare anomaly of the coronary arteries	BMJ Case Reports	0.125	0.159
68	A rare presentation of splenic tuberculosis with a pseudocyst	BMJ Case Reports	0.125	0.159
69	An uncommon but important complication of renal biopsy	BMJ Case Reports	0.125	0.159
70	Niemann-Pick disease type C or Gaucher's disease type	BMJ Case Reports	0.125	0.159

	3? A clinical conundrum			
71	A giant 'sausage' thrombus in the left ventricle in a patient with preserved ventricular function	BMJ Case Reports	0.125	0.159
72	'A rare cause of angina': Multiple coronary cameral fistulae simulating coronary artery disease in a 71-year-old man	BMJ Case Reports	0.125	0.159
73	Quadricuspid aortic valve: A rare congenital cardiac anomaly	BMJ Case Reports	0.125	0.159
74	Amelanotic malignant melanoma of the cervical oesophagus	BMJ Case Reports	0.125	0.159
75	Scrotal migration of ventriculoperitoneal shunt	BMJ Case Reports	0.125	0.159
76	Giant coronary aneurysm presenting as acute coronary syndrome in a patient with systemic lupus erythematosus	BMJ Case Reports	0.125	0.159
77	An infant with chronic severe neutropenia	BMJ Case Reports	0.125	0.159
78	Sternal rub causing presternal abrasion in a patient with capsuloganglionic haemorrhage	BMJ Case Reports	0.125	0.159
79	Incidental 'ethmoid sinolith' - An unusual cause of frontal recess obstruction	BMJ Case Reports	0.125	0.159
80	Central vein stenosis masquerading as venous thrombosis	BMJ Case Reports	0.125	0.159
81	Primary colonic signet ring cell carcinoma in a young patient	BMJ Case Reports	0.125	0.159
82	Joubert syndrome	BMJ Case Reports	0.125	0.159
83	Wernicke's encephalopathy in a patient with gastric carcinoma: A diagnosis not to miss	BMJ Case Reports	0.125	0.159
84	Graves' disease presenting as unilateral anterior ischaemic optic neuropathy	BMJ Case Reports	0.125	0.159
85	Left maxillary artery pseudoaneurysm: A rare and late postoperative complication after head and neck cancer treatment	BMJ Case Reports	0.125	0.159
86	Ortner's syndrome	BMJ Case Reports	0.125	0.159
87	Hemiconvulsion-hemiplegia-epilepsy syndrome: Clinical course and neuroradiological features in a 20-month-old girl	BMJ Case Reports	0.125	0.159
88	Merosin-deficient congenital muscular dystrophy with cerebral white matter changes: A clue to its diagnosis beyond infancy	BMJ Case Reports	0.125	0.159
89	Intra-articular osteoid osteoma of the distal humerus: A diagnostic challenge	BMJ Case Reports	0.125	0.159
90	Dual pathology of the submandibular gland: Plasmacytoma and pleomorphic adenoma	BMJ Case Reports	0.125	0.159
91	Acute large bowel obstruction secondary to stage 4 colonic carcinoma in an elderly man with severe aortic stenosis: A therapeutic challenge	BMJ Case Reports	0.125	0.159
92	Bilateral cryptorchidism with bilateral synchronous abdominal testicular germ cell tumour	BMJ Case Reports	0.125	0.159
93	An unusual cause for neck swelling: Apical lung hernia	BMJ Case Reports	0.125	0.159
94	Crossed unfused renal ectopia	BMJ Case Reports	0.125	0.159
95	Painless aortic dissection, presenting as dyspnoea	BMJ Case Reports	0.125	0.159
96	Squamous cell carcinoma of the renal pelvis presenting as sacral bone metastasis	BMJ Case Reports	0.125	0.159
97	Difficult to wean: Think of the diaphragm	BMJ Case Reports	0.125	0.159
98	Rare anatomical variation in transverse sinuses (duplication on right, hypoplasia of left) falsely mimicking transverse sinus thrombosis probably due to resultant slow flow	BMJ Case Reports	0.125	0.159
99	Tuberculous mediastinal lymphadenopathy in an adult	BMJ Case Reports	0.125	0.159
100	Bronchial atresia: A rare presentation as air fluid level on chest roentgenogram	BMJ Case Reports	0.125	0.159
101	Simultaneous occurrence of internal capsule infarct and cerebellar haemorrhage in a patient with hemiplegia	BMJ Case Reports	0.125	0.159
102	Acute prevertebral abscess secondary to infected pancreatic pseudocyst	BMJ Case Reports	0.125	0.159
103	A rare presentation of splenic tuberculosis with a pseudocyst.	BMJ case reports	0.125	0.159
104	Acute large bowel obstruction secondary to stage 4 colonic carcinoma in an elderly man with severe aortic stenosis: a therapeutic challenge	BMJ case reports	0.125	0.159

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108	Incidental 'ethmoid sinolith'--an unusual cause of frontal recess obstruction	BMJ case reports	0.125	0.159
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111	Acute hepatitis E complicated by acute pancreatitis and multiorgan dysfunction	BMJ case reports	0.125	0.159
112	Haemolytic anaemia--PNH type II cells presenting a diagnostic dilemma	BMJ case reports	0.125	0.159
113	An infant with chronic severe neutropenia	BMJ case reports	0.125	0.159
114	BAL Toma masquerading as pulmonary tuberculosis	BMJ case reports	0.125	0.159
115	Mechanical ventilation-induced 'pneumoangiogram' of cerebral vessels in a trauma patient	BMJ case reports	0.125	0.159
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122	Bronchial atresia: a rare presentation as air fluid level on chest roentgenogram	BMJ case reports	0.125	0.159
123	Evaluation of mild encephalitis/encephalopathy with a reversible splenial lesion (MERS) by diffusion-weighted and diffusion tensor imaging	BMJ case reports	0.125	0.159
124	Scapular winging in a patient with Arnold-Chiari malformation type 1 and syringomyelia	BMJ case reports	0.125	0.159
125	Bilateral cryptorchidism with bilateral synchronous abdominal testicular germ cell tumour	BMJ case reports	0.125	0.159
126	Tuberculous mediastinal lymphadenopathy in an adult	BMJ case reports	0.125	0.159
127	A giant 'sausage' thrombus in the left ventricle in a patient with preserved ventricular function	BMJ case reports	0.125	0.159
128	Central vein stenosis masquerading as venous thrombosis	BMJ case reports	0.125	0.159
129	Coronary steal or large collateral? Three cases of graft failure in sequential and composite grafts	BMJ case reports	0.125	0.159
130	Wolman disease in an infant	BMJ case reports	0.125	0.159
131	Quadricuspid aortic valve: a rare congenital cardiac anomaly	BMJ case reports	0.125	0.159
132	Amelanotic malignant melanoma of the cervical oesophagus	BMJ case reports	0.125	0.159
133	Joubert syndrome	BMJ case reports	0.125	0.159
134	Scrotal migration of ventriculoperitoneal shunt	BMJ case reports	0.125	0.159
135	Sternal rub causing presternal abrasion in a patient with capsuloganglionic haemorrhage	BMJ case reports	0.125	0.159
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142	Tuberculous lymphadenitis and borderline leprosy in a	BMJ case reports	0.125	0.159



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143	Merosin-deficient congenital muscular dystrophy with cerebral white matter changes: a clue to its diagnosis beyond infancy.	BMJ case reports	0.125	0.159
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148	Simultaneous occurrence of internal capsule infarct and cerebellar haemorrhage in a patient with hemiplegia.	BMJ case reports	0.125	0.159
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151	Left maxillary artery pseudoaneurysm: a rare and late postoperative complication after head and neck cancer treatment.	BMJ case reports	0.125	0.159
152	Evaluation of oxidant stress and antioxidant defense in discrete brain regions of rats exposed to 900 MHz radiation	Bratislava Medical Journal	0.204	0.313
153	SRD5A2 gene polymorphisms affect the risk of breast cancer	Breast	939	0.857
154	Accessory forearm flexor muscle: A rare case report	Brunei International Medical Journal	0.104	0.092
155	Cardiac pathology in fatal electrocution	Burns	0.655	1.131
156	Lobed spleen: An autopsy case report with emphasis on surgical anatomy	Clinica Terapeutica	0.2	0.312
157	Cytokinesis blocked micronucleus assay of peripheral lymphocytes revealing the genotoxic effect of formaldehyde exposure	Clinical Anatomy	0.381	1.189
158	Is coloboma a feature of fetal valproate syndrome?	Clinical Dysmorphology	0.31	0.337
159	Microduplications encompassing the sonic hedgehog limb enhancer ZRS are associated with haas-type polysyndactyly and Laurin-Sandrow syndrome	Clinical Genetics	1.444	1.205
160	Paroxysmal paralytic attacks secondary to excessive cola consumption	Clinical Medicine and Research	0.352	0.815
161	Empowerment and its associations in schizophrenia: A cross-sectional study	Community Mental Health Journal	0.547	0.797
162	Pathophysiology of preeclampsia and possible role of zinc in its genesis	Current Women's Health Reviews	0.145	0.118
163	Phosphaturic mesenchymal tumour of the mandible - the useful criteria for a diagnosis on fine needle aspiration cytology	Cytopathology	0.437	0.856
164	Purplish tender nodule on the arm	Dermatology Online Journal	0.26	0.511
165	Quantitative fraction evaluation of dermal collagen and elastic fibres in the skin samples obtained in two orientations from the trunk region	Dermatology Research and Practice	0.635	1.166
166	Off campus access to licensed e-resources of library: A case study	DESIDOC Journal of Library and Information Technology	0.203	0.332
167	Immunohistochemical correlation of matrix metalloproteinase-2 and tissue inhibitors of metalloproteinase-2 in tobacco associated epithelial dysplasia	Disease Markers	0.65	0.604
168	Heel-ball index: An analysis of footprint dimensions for determination of sex	Egyptian Journal of Forensic Sciences		
169	Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation	Environmental Research	1.574	1.627
170	Plasmodium vivax infection impersonating plasmodium	Eurasian Journal of	0.138	0.422

	falciparum malaria [Plasmodium falciparum si{dotless}tmayi{dotless} taklit eden plasmodium vivax enfeksiyonu]	Medicine		
171	Non-functioning aortocaval paraganglioma masquerading as celiac lymphnodal metastasis [Çölyak lymphnodal metastaz gibi davranan, İşlev görmeyen aortocaval paraganglioma]	Eurasian Journal of Medicine	0.138	0.422
172	Diffuse idiopathic calcinosis cutis in an adult: A rare case [Bir yetişkinde diffüz idiyopatik kalsinosis cutis: Nadir bir vaka]	Eurasian Journal of Medicine	0.138	0.422
173	Morphometry of the deep muscles of the extensor compartment of the forearm and related variations	European Journal of Anatomy	0.223	0.537
174	Synthesis of novel thiadiazolotriazin-4-ones and study of their mosquito-larvicidal and antibacterial properties	European Journal of Medicinal Chemistry	1.004	1.611
175	Antidiabetic activity of 3-hydroxyflavone analogues in high fructose fed insulin resistant rats	EXCLI Journal	0.223	0.594
176	Genetic association of KCNJ10 rs1130183 with seizure susceptibility and computational analysis of deleterious non-synonymous SNPs of KCNJ10 gene	Gene	0.86	0.736
177	Esophageal actinomycosis in a patient with end-stage renal disease	Hemodialysis International	0.469	0.705
178	Variability of palmprint ridge density in a North Indian population and its use in inference of sex in forensic examinations	HOMO	0.337	0.626
179	Safety and immunogenicity study of a new purified chick embryo cell rabies vaccine Vaxirab-N (Pitman-Moore strain) manufactured in India	Human Vaccines and Immunotherapeutics	0.745	0.607
180	Premedication with gabapentin, Alprazolam or a placebo for abdominal hysterectomy: Effect on preoperative anxiety, Postoperative pain and morphine consumption	Indian Journal of Anaesthesia	0.314	0.897
181	Re-expansion pulmonary oedema - Differential lung ventilation comes to the rescue	Indian Journal of Anaesthesia	0.314	0.897
182	Radiographic mislead: Apparent arterial placement of subclavian central venous catheter due to mediastinal shift	Indian Journal of Anaesthesia	0.314	0.897
183	Protein thiols and butyrylcholinesterase in saliva of oral cancer patients	Indian Journal of Clinical Biochemistry	0.322	0.773
184	A case of Sanfillippo's disease correlating clinical and biochemical findings	Indian Journal of Clinical Biochemistry	0.322	0.773
185	Correlation of serum homocysteine levels with the severity of coronary artery disease	Indian Journal of Clinical Biochemistry	0.322	0.773
186	Castleman's disease with paraneoplastic pemphigus	Indian Journal of Dermatology	0.351	0.899
187	Acantholytic variant of bowen's disease with micro-invasive squamous cell carcinoma: A case report of a unique variant	Indian Journal of Dermatology	0.351	0.899
188	Estimation of stature from middle finger length-in Salem region	Indian Journal of Forensic Medicine and Toxicology	0.116	0.142
189	Discrepancy in Optical & Mechanical Method in Coagulation Tests in a Turbid Sample	Indian Journal of Hematology and Blood Transfusion	0.17	0.542
190	Willingness to participate in a clinical trial and understanding of informed consent information among medical students	Indian journal of medical ethics	0.136	0
191	Clinicomicrobiological analysis of patients with cholangitis	Indian Journal of Medical Microbiology	0.454	1.01
192	Association of Malassezia species with dandruff	Indian Journal of Medical Research	0.701	1.367
193	Clinical, biochemical & cytomorphologic study on hashimoto's thyroiditis	Indian Journal of Medical Research	0.701	1.367
194	Depression and anxiety as potential correlates of post-transplantation renal function and quality of life	Indian Journal of Nephrology	0.242	0.562
195	Complications and management in Descemet's stripping endothelial keratoplasty: Analysis of consecutive 430 cases	Indian Journal of Ophthalmology	0.474	0.812



196	Mucoid degeneration of the anterior cruciate ligament: Management and outcome	Indian Journal of Orthopaedics	0.337	0.661
197	Bifurcated intraarticular long head of biceps tendon	Indian Journal of Orthopaedics	0.337	0.661
198	Characterization of plasmid mediated AmpC producing Escherichia coli clinical isolates from a tertiary care hospital in South India	Indian Journal of Pathology and Microbiology	0.257	0.704
199	Factors influencing the television viewing practices of Indian children	Indian Journal of Pediatrics	0.341	0.584
200	Neonatal meningitis and sepsis by Chryseobacterium indologenes: A rare and resistant bacterium	Indian Journal of Pediatrics	0.341	0.584
201	A novel frameshift mutation in TWIST2 gene causing Setleis syndrome	Indian Journal of Pediatrics	0.341	0.584
202	Effect of Tribulus terrestris on haloperidol-induced catalepsy in mice	Indian Journal of Pharmaceutical Sciences	0.315	0.573
203	Effect of Orexin-A infusion in to the Nucleus Accumbens on consummatory behaviour and alcohol preference in male Wistar rats	Indian Journal of Physiology and Pharmacology	0.208	0.638
204	Beneficial effect of Omega-3 polyunsaturated fatty acids on neurosensory impairments and oxidative status in Streptozotocin induced diabetic rats	Indian Journal of Physiology and Pharmacology	0.208	0.638
205	Effect of red bull energy drink on auditory reaction time and maximal voluntary contraction	Indian Journal of Physiology and Pharmacology	0.208	0.638
206	Effect of limited access dressing on hydroxyproline and enzymatic antioxidant status in nonhealing chronic ulcers	Indian Journal of Plastic Surgery	0.252	0.62
207	A novel method for blood volume estimation using trivalent chromium in rabbit models	Indian Journal of Plastic Surgery	0.252	0.62
208	Scale for assessment of lethality of suicide attempt	Indian Journal of Psychiatry	0.311	0.737
209	Olanzapine discontinuation emergent recurrence in bipolar disorder	Indian Journal of Psychological Medicine	0.232	0.606
210	Co-morbidity in bipolar disorder: A retrospective study	Indian Journal of Psychological Medicine	0.232	0.606
211	Awareness about community diagnosis among health care professionals in South India: A cross-sectional study	Indian Journal of Public Health Research and Development	0.104	0.03
212	Interaction of carbon nanotubes reinforced hydroxyapatite composite with Bacillus subtilis, P. aeruginosa and C. albicans	Indian Journal of Science and Technology	1.302	0.804
213	Effects of Surgical Stress on Early Nonspecific Immune Response in Children	Indian Journal of Surgery	0.162	0.349
214	Incidence, characteristics and outcome of ICU-acquired candidemia in India	Intensive Care Medicine	3.004	2.316
215	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 Behavioral Nutrition and Physical Activity	2.034	1.833
216	Coexistence of frontal fibrosing alopecia with lichen planus pigmentosus	International Journal of Dermatology	0.536	0.935
217	Profile of women seeking medical termination of pregnancy in South India	International Journal of Gynecology and Obstetrics	0.676	1.013
218	Prevalence of clinical periodontitis and putative periodontal pathogens among South Indian pregnant women	International Journal of Microbiology	0.9	0.947
219	Primary otomycosis in the indian subcontinent: Predisposing factors, microbiology, and classification	International Journal of Microbiology	0.9	0.947
220	Morphometric parameters of the human adult kidney: An anatomical study [Parámetros morfométricos del riñón humano adulto: Un estudio anatómico]	International Journal of Morphology	0.239	0.522
221	Effect of fluoride varnish and chlorhexidine-thymol varnish on mutans streptococci levels in human dental plaque: A double-blinded randomized controlled trial	International Journal of Paediatric Dentistry	0.788	1.383

222	Serum uric acid - Phosphate ratio as a differential diagnostic marker of prostate disorders	International Journal of Pharma and Bio Sciences	0.329	0.643
223	Role of oral midazolam as a procedural sedative in children aged 6 months to 12 years	International Journal of Pharma and Bio Sciences	0.329	0.643
224	Profile of vitamin D deficiency in Mangalore	International Journal of Pharma and Bio Sciences	0.329	0.643
225	Antioxidant status and zinc levels in alcoholic liver disease	International Journal of Pharma and Bio Sciences	0.329	0.643
226	Tartarate resistant acid phosphatase as a marker in osteoporosis and bone malignancy	International Journal of Pharma and Bio Sciences	0.329	0.643
227	Led fluorescence microscopy: Leads the future of rapid and effective pulmonary tuberculosis diagnosis	International Journal of Pharma and Bio Sciences	0.329	0.643
228	Ethanol extract of oral Areca catechu promotes burn wound healing in rats	International Journal of Pharmaceutical Sciences Review and Research	0.202	0.349
229	Effect of prenatal isotretinoin on postnatal development of rat retina and expression of doublecortin positive cells: A morphometric and histopathological analysis	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
230	Evaluation of wound healing activity of ethanol extract of Lantana camara in streptozotocin induced diabetic rats	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
231	Hepatoprotective activity of Phyllanthus niruri in thioacetamide induced hepatotoxicity in male wistar rats	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
232	Evaluation of the effect of costus igneus on learning and memory in normal and diabetic rats using passive avoidance task	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
233	Evaluation of burn wound healing activity of topical regular insulin in non-diabetic and streptozocin-induced diabetic rats	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
234	The effect of hyperlipidemic state on urine expression of rifampicin and its association with pulmonary tuberculosis-a prospective pilot study	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
235	Evaluation of anti-inflammatory activity of Alcohol extract of leaves of Leucas Aspera in albino rats	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
236	Effect of fucithalamic and sofinox eye drops on experimental allergic conjunctivitis in rats	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
237	A study of corrected QT dispersion before and after haemodialysis in ischemic heart disease patients	International Journal of Pharmacy and Technology	0.157	0.216
238	Comparison of seizure potentiating effect of first and second generation antihistamines	International Journal of Pharmacy and Technology	0.157	0.216
239	Treatment compliance among patients with hypertension and type 2 diabetes mellitus in a coastal population of southern India	International Journal of Preventive Medicine	0.458	0.746
240	Psychiatric co-morbidities among patients with select non-communicable diseases in a coastal city of South India	International Journal of Preventive Medicine	0.458	0.746
241	Tubeless simultaneous bilateral percutaneous nephrolithotomy: Safety, feasibility and efficacy in an Indian setting	International Journal of Urology	0.867	1.132

242	Influence of iron deficiency anemia on hemoglobin A1C levels in diabetic individuals with controlled plasma glucose levels	Iranian Biomedical Journal	0.327	0.548
243	An unusual case of disseminated toxoplasmosis in a previously healthy pregnant patient: Radiographic, CT, and MRI findings	Japanese Journal of Radiology	0.418	0.622
244	Comparison of I-gel with proseal LMA in adult patients undergoing elective surgical procedures under general anesthesia without paralysis: A prospective randomized study	Journal of Anaesthesiology Clinical Pharmacology	0.301	0.737
245	Evaluation of antioxidant potential of costus igneus in ethanol induced peroxidative damage in albino rats	Journal of Applied Pharmaceutical Science	0.257	0.537
246	Identification of biochemical differences between different forms of male infertility by nuclear magnetic resonance (NMR) spectroscopy	Journal of assisted reproduction and genetics	0.692	0.743
247	DNA promoter methylation-dependent transcription of the double C2-like domain $\beta$ (DOC2B) gene regulates tumor growth in human cervical cancer	Journal of Biological Chemistry	2.734	1.15
248	A fast NMR method for resonance assignments: Application to metabolomics	Journal of Biomolecular NMR	1.873	0.848
249	Carbon nanotubes reinforced hydroxyapatite composite for biomedical application	Journal of Bionanoscience	0.975	0.447
250	Generalized vitiligo post radiotherapy in a breast cancer patient	Journal of Cancer Research and Therapeutics	0.288	0.614
251	Successful patent ductus arteriosus device closure in a patient with massive pulmonary embolism	Journal of Cardiology Cases	0.123	0.076
252	Rheumatic mitral stenosis complicated with underlying wolff-parkinson-white syndrome	Journal of Cardiovascular Disease Research	0.412	0.803
253	Evaluation of subtle left ventricular systolic abnormalities in adult patients with hypertrophic cardiomyopathy	Journal of Clinical and Diagnostic Research	0.229	0.545
254	Hepatic Epithelioid Hemangioendothelioma in an Eight Year Old - A Case Report	Journal of Clinical and Diagnostic Research	0.229	0.545
255	Soft tissue myxoma- a rare differential diagnosis of localized oral cavity lesions	Journal of Clinical and Diagnostic Research	0.229	0.545
256	Stenotrophomonas maltophilia in lower respiratory tract infections	Journal of Clinical and Diagnostic Research	0.229	0.545
257	Influence of grape seed extract and zinc containing multivitamin-mineral nutritional food supplement on lipid profile in normal and diet-induced hypercholesterolemic rats	Journal of Clinical and Diagnostic Research	0.229	0.545
258	Psychological evaluation of patients in critical care/intensive care unit and patients admitted in wards	Journal of Clinical and Diagnostic Research	0.229	0.545
259	Medical students' research – Facilitators and barriers	Journal of Clinical and Diagnostic Research	0.229	0.545
260	Hepatoprotective role of Caesalpinia bonduc: A histopathological and biochemical study	Journal of Clinical and Diagnostic Research	0.229	0.545
261	Phaeohyphomycotic cyst in the foot by exophiala	Journal of Clinical and Diagnostic Research	0.229	0.545
262	Anything rare is possible: Letrozole induced eczematous skin eruption	Journal of Clinical and Diagnostic Research	0.229	0.545
263	Correlation of plasma lipid profile with salivary oxidative stress markers in type II diabetes mellitus patients	Journal of Clinical and Diagnostic Research	0.229	0.545
264	A case of perianal and gluteal scrofulodema	Journal of Clinical and Diagnostic Research	0.229	0.545
265	Effectiveness of progressive resistance strength training	Journal of Clinical	0.229	0.545

	versus traditional balance exercise in improving balance among the elderly - a randomised controlled trial	and Diagnostic Research		
266	Be careful with an I V line	Journal of Clinical and Diagnostic Research	0.229	0.545
267	Angiolymphoid hyperplasia with eosinophilia of root of nose: A rare phenomenon	Journal of Clinical and Diagnostic Research	0.229	0.545
268	A study of clinical characteristics of mediastinal mass	Journal of Clinical and Diagnostic Research	0.229	0.545
269	Prevalence of hypoparathyroidism in beta thalassemia major	Journal of Clinical and Diagnostic Research	0.229	0.545
270	Medical students' perception of their educational environment	Journal of Clinical and Diagnostic Research	0.229	0.545
271	Atypical manifestations of dengue fever - Where do we stand today?	Journal of Clinical and Diagnostic Research	0.229	0.545
272	Is there a need for Luteinizing Hormone (LH) estimation in patients undergoing ovarian stimulation with gonadotropin-releasing hormone antagonists and recombinant follicle-stimulating hormone?	Journal of Clinical and Diagnostic Research	0.229	0.545
273	Neonatal gastric teratoma: A rare entity	Journal of Clinical and Diagnostic Research	0.229	0.545
274	Hepatic epithelioid hemangioendothelioma in an eight-year-old - a case report	Journal of Clinical and Diagnostic Research	0.229	0.545
275	Correlation of fetal abdominal subcutaneous tissue thickness by ultrasound to predict birth weight	Journal of Clinical and Diagnostic Research	0.229	0.545
276	Sarcomatoid renal cell carcinoma: Case report and review of literature	Journal of Clinical and Diagnostic Research	0.229	0.545
277	Two Rare Presentations of Epidermal Cyst	Journal of Clinical and Diagnostic Research	0.229	0.545
278	Neck circumference and cardio-metabolic syndrome	Journal of Clinical and Diagnostic Research	0.229	0.545
279	Rapid immunochromatographic test for the identification and discrimination of Mycobacterium tuberculosis complex isolates from non-tuberculous mycobacteria	Journal of Clinical and Diagnostic Research	0.229	0.545
280	Hypersensitivity reaction associated with abacavir therapy in an Indian HIV patient – A case report	Journal of Clinical and Diagnostic Research	0.229	0.545
281	Effects of occupational tobacco exposure on foetal growth, among beedi rollers in coastal Karnataka	Journal of Clinical and Diagnostic Research	0.229	0.545
282	Microbiological profile and drug sensitivity pattern among community acquired pneumonia patients in tertiary care centre in Mangalore, Coastal Karnataka, India	Journal of Clinical and Diagnostic Research	0.229	0.545
283	Knowledge, attitude and practices related to dietary supplements and micronutrients in health sciences students	Journal of Clinical and Diagnostic Research	0.229	0.545
284	Anomalous branching pattern of the popliteal artery: A case report	Journal of Clinical and Diagnostic Research	0.229	0.545
285	Comparison of directly observed treatment short course (DOTS) with self-administered therapy in pulmonary tuberculosis in Udipi district of south India	Journal of Clinical and Diagnostic Research	0.229	0.545
286	Risk factors assessment of the difficult intubation using intubation difficulty scale	Journal of Clinical and Diagnostic Research	0.229	0.545
287	Clinical awareness of do's and don'ts of cardiopulmonary resuscitation among university medical students-A	Journal of Clinical and Diagnostic	0.229	0.545

	questionnaire study	Research		
288	Enteropathy associated t cell lymphoma – A case report of an uncommon extranodal t cell lymphoma	Journal of Clinical and Diagnostic Research	0.229	0.545
289	Comparative study of dentascan and radiography for radiological evaluation of impacted teeth	Journal of Clinical and Diagnostic Research	0.229	0.545
290	Inexpensive video-laryngoscopy guided intubation using a personal computer: Initial experience of a novel technique	Journal of Clinical Monitoring and Computing	0.568	0.89
291	Outcome of mood stabilizer discontinuation in bipolar disorder after 5 years of euthymia	Journal of Clinical Psychopharmacology	0.997	1.086
292	Doppler evaluation of ocular vessels in patients with primary open angle glaucoma	Journal of Clinical Ultrasound	0.292	0.615
293	Bladder outlet and rectal obstruction secondary to a large pelvic hydatic cyst	Journal of Clinical Urology	0.179	0.122
294	Anatomic study of the occipital condyle and its surgical implications in transcondylar approach	Journal of Craniovertebral Junction and Spine	0.226	0.616
295	A morphological and morphometric study of jugular foramen in dry skulls with its clinical implications	Journal of Craniovertebral Junction and Spine	0.226	0.616
296	Comparative study on cardiac autonomic modulation during deep breathing test and diaphragmatic breathing in type 2 diabetes and healthy subjects	Journal of Diabetes Investigation	0.448	0.57
297	Perceptions and practices of medical practitioners towards ethics in medical practice - A study from coastal South India	Journal of Forensic and Legal Medicine	0.476	0.748
298	Estimation of stature from lengths of index and ring fingers in a North-eastern Indian population	Journal of Forensic and Legal Medicine	0.476	0.748
299	Pattern of acute poisonings in children below 15 years - A study from Mangalore, South India	Journal of Forensic and Legal Medicine	0.476	0.748
300	Pancreatitis in scrub typhus	Journal of Global Infectious Diseases	0.548	1.162
301	Superficial angiomyxoma of the thumb mimicking a malignant bone tumor: Case report	Journal of Hand Surgery	1.111	1.307
302	Stress, Coping and Gender Differences in Third Year Medical Students	Journal of Health Management	0.192	0.314
303	Advancing or postponing the day of human chorionic gonadotropin does not matter for the outcome in assisted reproductive technology	Journal of Human Reproductive Sciences	0.567	1.301
304	Laparoscopic cystectomy of endometrioma: Good surgical technique does not adversely affect ovarian reserve	Journal of Human Reproductive Sciences	0.567	1.301
305	Orlistat in polycystic ovarian syndrome reduces weight with improvement in lipid profile and pregnancy rates	Journal of Human Reproductive Sciences	0.567	1.301
306	Evaluation of Efficacy of Microwave Irradiation in Disinfecting Dental Gypsum Casts: An Ex Vivo Study	Journal of Indian Prosthodontist Society	0.136	0.298
307	Effect of oil gum massage therapy on common pathogenic oral microorganisms-A randomized controlled trial	Journal of Indian Society of Periodontology	0.248	0.81
308	A qualitative research on the experience of haemodialysis in South Karnataka: Lived experience of persons undergoing haemodialysis	Journal of Krishna Institute of Medical Sciences University	0.132	0.597
309	Genetic heterogeneity in Cornelia de Lange syndrome (CdLS) and CdLS-like phenotypes with observed and predicted levels of mosaicism	Journal of Medical Genetics	2.82	2.115
310	Characteristics of microbial drug resistance and its correlates in chronic diabetic foot ulcer infections	Journal of Medical Microbiology	0.907	0.959
311	Corynebacterium minutissimum infecting pseudomeningocele: A rare case	Journal of Microbiology, Immunology and Infection	0.776	1.119
312	A comprehensive predictive scoring method for difficult laparoscopic cholecystectomy	Journal of Minimal Access Surgery	0.47	0.953
313	Effect of methotrexate and vitamin A on NOR	Journal of	0.167	0.404



	expression in seminiferous tubules of Wistar rats	Morphological Sciences		
314	Rare variation in arterial branching of celiac trunk with three aberrant hepatic arteries – Case report	Journal of Morphological Sciences	0.167	0.404
315	Grape seed extract and zinc containing nutritional food supplement prevents onset and progression of age-related cataract in wistar rats	Journal of Nutrition, Health and Aging	0.925	1.05
316	A pregnant woman with Lactococcus lactis meningitis: To treat or not to treat?	Journal of Obstetrics and Gynecology of India	0.178	0.346
317	Open comparative study of efficacy and safety of ketoconazole soap and oral ketoconazole in tinea versicolor	Journal of Pakistan Association of Dermatologists	0.117	0.091
318	Identification and preservation of intestinal parasites using methylene blue-glycerol mount: A new approach to stool microscopy	Journal of Parasitology Research	0.753	0.805
319	Subcutaneous fungal infection of the foot - A case report	Journal of Postgraduate Medical Institute	0.139	0.251
320	Significance of maternal and cord blood nucleated red blood cell count in pregnancies complicated by preeclampsia	Journal of Pregnancy	0.779	1.302
321	Acute aortic dissection – a rare cause of sudden death	Journal of Punjab Academy of Forensic Medicine and Toxicology	0.151	0.251
322	Fatal occupational scalds - A case report and review of literature	Journal of South India Medicolegal Association	0.1	0
323	Foramen magnum as a tool of estimating stature in a male population	Journal of South India Medicolegal Association	0.1	0
324	Sudden death due to septic thrombi associated with septicemia	Journal of South India Medicolegal Association	0.1	0
325	Duplicated right crus of the diaphragm: A cadaveric case report	Journal of the Canadian Chiropractic Association	0	0
326	Effect of lipodystrophy on the quality of life among people living with HIV (PLHIV) on highly active antiretroviral therapy	Journal of the International Association of Providers of AIDS Care	0.485	0.376
327	Charcot's elbow following syringomyelia: Revisited	Journal of the Nepal Medical Association	0.142	0.209
328	Angiotensin-converting enzyme gene insertion/deletion polymorphism studies in Asian Indian pregnant women biochemically identifies gestational diabetes mellitus	JRAAS - Journal of the Renin-Angiotensin-Aldosterone System	0.581	0.791
329	Osteometric analysis for sexing of modern sternum - An autopsy study from South India	Legal Medicine	0.629	1.003
330	A rare case of calcified pulmonary aspergilloma	Lung India	0.313	0.953
331	Determinants of mortality, intensive care requirement and prolonged hospitalization in malaria - A tertiary care hospital based cohort study from South-Western India	Malaria Journal	1.696	1.155
332	Severity in Plasmodium vivax malaria claiming global vigilance and exploration - A tertiary care centre-based cohort study	Malaria Journal	1.696	1.155
333	Twin pregnancy with hydatidiform mole and Co-existent live fetus: Lessons Learnt	Malaysian Journal of Medical Sciences	0.185	0.368
334	Topical application/formulation of probiotics: Will it be a novel treatment approach for diabetic foot ulcer?	Medical Hypotheses	0.406	0.42
335	Investigation of Calpain 10 (rs2975760) gene polymorphism in Asian Indians with Gestational Diabetes Mellitus	Meta Gene	0.11	0.046
336	Mitochondrial DNA variation analysis in cervical cancer	Mitochondrion	1.408	0.999
337	Exome sequencing identifies a dominant tnnt3 mutation	Molecular	1.021	0.937

	in a large family with distal arthrogyrosis	Syndromology		
338	Relationship between postural alignment in sitting by photogrammetry and seated postural control in post-stroke subjects	NeuroRehabilitation	0.543	0.709
339	Pfeiffer syndrome with extreme proptosis, hypothyroidism and tail like appendage	Oman Medical Journal	0.411	0.82
340	Multiple anomalous variations in the gluteal region	Online Journal of Health and Allied Sciences	0.126	0.272
341	Anatomical variations in the arteries and nerves of the right carotid triangle	Online Journal of Health and Allied Sciences	0.126	0.272
342	A progressively enlarging swelling of the palate	Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology	0.61	1.118
343	Does the Miller blade truly provide a better laryngoscopic view and intubating conditions than the Macintosh blade in small children?	Paediatric Anaesthesia	0.836	1.147
344	Time to positivity of blood cultures in neonates	Pediatric Infectious Disease Journal	1.524	1.063
345	Intraindividual somatic variations in MTHFR gene polymorphisms in relation to colon cancer	Pharmacogenomics	0.83	0.744
346	Effect of tribulus terrestris on learning and memory in wistar rats	Pharmacognosy Journal	0.253	0.441
347	Serologic Prevalence of Toxoplasma gondii in Indian Women of Child Bearing Age and Effects of Social and Environmental Factors	PLoS Neglected Tropical Diseases	2.093	1.636
348	Population specific impact of genetic variants in KCNJ11 gene to type 2 diabetes: A case-control and meta-analysis study	PLoS ONE	1.3	1.034
349	Objective assessment of endogenous collagen in vivo during tissue repair by laser induced fluorescence	PLoS ONE	1.3	1.034
350	Risk factors and outcomes stratified by severity of acute kidney injury in malaria	PLoS ONE	1.3	1.034
351	Genetic association analysis of ATP binding cassette protein family reveals a novel association of ABCB1 genetic variants with epilepsy risk, but not with drug-resistance	PLoS ONE	1.3	1.034
352	Frequency and intensive care related risk factors of pneumothorax in ventilated neonates	Pulmonary Medicine	0.845	1.075
353	Pre morbid severity of chronic obstructive pulmonary disease as risk factor for carbon dioxide retention during acute exacerbation of chronic obstructive pulmonary disease	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
354	Evaluation of the Diuretic Activity of Alocasia macrorrhizos in Rats	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
355	N-acetylcysteine for gestational stress-induced behavioral toxicity	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
356	Use of beta blockers in patients with reactive airway disease and concomitant hypertension or ischemic heart disease	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
357	Acute and long term safety evaluation of grape seed extract and zinc containing multivitamin-mineral nutritional food supplement in rodents	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
358	Comparative efficacy of choline vs Clitoria ternatea aqueous root extract supplements in attenuating maternal separation stress induced alterations in postnatal rat hippocampus.	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
359	Safety assessment of topical formulation of nicotinamide gel (2%), (3%) and (4%) on skin of normal healthy New Zealand white Albino rabbits	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245



360	Tenofovir therapy induced fanconi syndrome: A rare complication in hepatitis-B virus infected patient	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
361	Diuretic activity of aqueous ethanolic extract of leaves of Costus speciosus in normal Wistar albino rats	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
362	The comparison of DDST and NCCLS methods in detecting ESBL production of E. coli and K. pneumonia	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
363	Evaluation of antidepressant activity of gallic acid in mice	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
364	An appraisal of sensitivity and resistance pattern of organisms isolated from hospital acquired pneumonia patients	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
365	Chronic endophthalmitis due to pyrenocheta romeroi in an immunocompetent host-A case report from southern india	Retinal Cases and Brief Reports	0.182	0.107
366	Antidiabetic activity of benzopyrone analogues in nicotinamide-streptozotocin induced type 2 diabetes in rats	Scientific World Journal	0.35	0.531
367	Prediction of absorption coefficients by pulsed laser induced photoacoustic measurements	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	0.595	1.166
368	A blast from the past!: The value of adding single slice magnetic resonance myelography sequence to magnetic resonance imaging of the spine; a flashback to the conventional myelography of the past	Surgical Neurology International	0.472	0.986
369	Ovarian tissue vitrification is more efficient than slow freezing in protecting oocyte and granulosa cell DNA integrity	Systems Biology in Reproductive Medicine	0.571	0.584
370	Liposome encapsulated soy lecithin and cholesterol can efficiently replace chicken egg yolk in human semen cryopreservation medium	Systems Biology in Reproductive Medicine	0.571	0.584
371	Non-surgical interventions for treating heavy menstrual bleeding (menorrhagia) in women with bleeding disorders	The Cochrane database of systematic reviews	1.543	2.33
372	Optimization and validation of indirect ELISA using truncated TssB protein for the serodiagnosis of glanders amongst equines	The Scientific World Journal	0.35	0.531
373	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	1.22	1.193
374	Leptospirosis and dengue fever: A predictive model for early differentiation based on clinical and biochemical parameters	Tropical Doctor	0.28	0.504
375	T cell Non-Hodgkins lymphoma as a cause of hypercalcemia: An important differential to remember	University of Toronto Medical Journal	0.107	0.062
376	Seminal vesicle schwannoma presenting with left hydronephrosis	Urology Annals	0.346	1.005
377	A multicenter prospective hospital-based surveillance to estimate the burden of rotavirus gastroenteritis in children less than five years of age in India	Vaccine	1.74	1.127
378	Retrospective surveillance for intussusception in children aged less than five years at two tertiary care centers in India	Vaccine	1.74	1.127
379	Effect of preoperative angiotensin-converting enzyme inhibitor and angiotensin II receptor blocker use on hemodynamic variables in pediatric patients undergoing cardiopulmonary bypass	World journal for pediatric & congenital heart surgery	0.223	0

380	Sixth hour transcutaneous bilirubin predicting significant hyperbilirubinemia in ABO incompatible neonates	World Journal of Pediatrics	0.445	0.814
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Web of Science-2012		
#	Source Title	Impact Factor
1	ACTA OBSTETRICIA ET GYNECOLOGICA SCANDINAVICA	2.005
2	AMERICAN JOURNAL OF MEDICAL GENETICS PART A	2.048
3	AMERICAN JOURNAL OF ROENTGENOLOGY	2.744
4	ARCHIVES OF GYNECOLOGY AND OBSTETRICS	1.279
5	ASIAN PACIFIC JOURNAL OF CANCER PREVENTION	1.5
6	ASIAN PACIFIC JOURNAL OF TROPICAL MEDICINE	0.926
7	BIOMEDICAL RESEARCH-INDIA	0.196
8	BIOTECHNOLOGY LETTERS	1.736
9	BLOOD	10.452
10	BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY	0.439
11	CANADIAN JOURNAL OF INFECTIOUS DISEASES & MEDICAL MICROBIOLOGY	0.685
12	CLINICA TERAPEUTICA	0.328
13	CLINICAL NEUROPHARMACOLOGY	2.009
14	CLINICAL ORTHOPAEDICS AND RELATED RESEARCH	2.765
15	COCHRANE DATABASE OF SYSTEMATIC REVIEWS	6.032
16	DEVELOPMENTAL NEUROREHABILITATION	2.05
17	ENT-EAR NOSE & THROAT JOURNAL	1
18	EUROPEAN JOURNAL OF HUMAN GENETICS	4.349
19	EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY	1.86
20	GASTROINTESTINAL ENDOSCOPY	5.369
21	INDIAN JOURNAL OF ORTHOPAEDICS	0.64
22	INDIAN JOURNAL OF PHARMACEUTICAL SCIENCES	0.479
23	INDIAN JOURNAL OF PHARMACOLOGY	0.691
24	INDIAN PEDIATRICS	1.04
25	INTEGRATIVE CANCER THERAPIES	2.361
26	INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES	1.859
27	INTERNATIONAL JOURNAL OF MORPHOLOGY	0.318
28	INTERNATIONAL JOURNAL OF NEUROPSYCHOPHARMACOLOGY	4.009
29	INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS	4.258
30	INTERNATIONAL ORTHOPAEDICS	2.11
31	JOURNAL OF ADDICTION MEDICINE	1.756
32	JOURNAL OF CHILD AND ADOLESCENT PSYCHOPHARMACOLOGY	2.933
33	JOURNAL OF CLINICAL ANESTHESIA	1.194
34	JOURNAL OF CLINICAL MONITORING AND COMPUTING	1.985
35	JOURNAL OF CLINICAL NEUROSCIENCE	1.378
36	JOURNAL OF ENDODONTICS	3.375
37	JOURNAL OF MEDICAL BIOCHEMISTRY	1.045
38	JOURNAL OF MEDICAL GENETICS	6.335
39	JOURNAL OF MINIMAL ACCESS SURGERY	0.805

40	JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES	2.817
41	JOURNAL OF PEDIATRIC HEMATOLOGY ONCOLOGY	0.902
42	JOURNAL OF POSTGRADUATE MEDICINE	0.855
43	JOURNAL OF PURE AND APPLIED MICROBIOLOGY	0.054
44	JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY	9.343
45	JOURNAL OF VOICE	1.242
46	KUWAIT MEDICAL JOURNAL	0.018
47	NATIONAL MEDICAL JOURNAL OF INDIA	0.782
48	NEUROLOGY INDIA	1.232
49	NOISE & HEALTH	1.477
50	PARKINSONISM & RELATED DISORDERS	3.972
51	PEDIATRIC ANESTHESIA	1.85
52	PEDIATRIC BLOOD & CANCER	2.386
53	PLOS ONE	3.234
54	PSYCHIATRY AND CLINICAL NEUROSCIENCES	1.634
55	PSYCHIATRY RESEARCH	2.467
56	PSYCHOGERIATRICS	0.988
57	PSYCHOPHARMACOLOGY BULLETIN	-
58	REPRODUCTIVE SCIENCES	2.23
59	RETROVIROLOGY	4.185
60	SINGAPORE MEDICAL JOURNAL	0.597
61	SKELETAL RADIOLOGY	1.51
62	SOCIAL PSYCHIATRY AND PSYCHIATRIC EPIDEMIOLOGY	2.537
63	SUBSTANCE ABUSE	2.097
64	SURGICAL AND RADIOLOGIC ANATOMY	1.047
65	TOXICOLOGY MECHANISMS AND METHODS	1.517
66	UROLOGIA INTERNATIONALIS	1.426
67	VIRCHOWS ARCHIV	2.651
	<b>Total Documents indexed in web of Sciences in the Year 2012</b>	87
	Sum of the Times Cited	209
	Sum of Times Cited without self-citations	209
	Citing Articles	209
	Citing Articles without self-citations	209
	Average Citations per Item	2.4
	h-index	8
	<a href="https://apps.webofknowledge.com/CitationReport.do?product=WOS&amp;search_mode=CitationReport&amp;SID=U1iXX31QMw7ZcLoWDkU&amp;page=1&amp;cr_pqid=29&amp;viewType=summary&amp;colName=WOS">https://apps.webofknowledge.com/CitationReport.do?product=WOS&amp;search_mode=CitationReport&amp;SID=U1iXX31QMw7ZcLoWDkU&amp;page=1&amp;cr_pqid=29&amp;viewType=summary&amp;colName=WOS</a>	

Web of Science-2013		
#	Source Title in which articles published	Impact Factor
1	ACTA GASTRO-ENTEROLOGICA BELGICA	0.861
2	ANNALS OF INDIAN ACADEMY OF NEUROLOGY	0.514
3	ASIAN PACIFIC JOURNAL OF TROPICAL MEDICINE	0.926
5	BIPOLAR DISORDERS	4.888
6	BMC INFECTIOUS DISEASES	2.561
8	BMC NEPHROLOGY	1.52
9	BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY	0.446
10	BURNS	1.836
11	CLINICAL AND EXPERIMENTAL DERMATOLOGY	1.234
12	CLINICAL GENETICS	3.652
13	EUROPEAN RESPIRATORY JOURNAL	7.125
14	FEBS LETTERS	3.341
15	FERTILITY AND STERILITY	4.295
16	HELLENIC JOURNAL OF CARDIOLOGY	0.785
17	INDIAN JOURNAL OF MEDICAL RESEARCH	1.661
18	INDIAN JOURNAL OF OPHTHALMOLOGY	0.927
19	INDIAN JOURNAL OF ORTHOPAEDICS	0.624
20	INDIAN JOURNAL OF OTOLARYNGOLOGY AND HEAD & NECK SURGERY	-
23	INDIAN JOURNAL OF PEDIATRICS	0.919
24	INDIAN JOURNAL OF PHARMACEUTICAL EDUCATION AND RESEARCH	0.219
25	INDIAN JOURNAL OF PHARMACOLOGY	0.679
29	INDIAN JOURNAL OF SURGERY	0.273
31	INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES	2.33
32	INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY	1.319
33	INTERNATIONAL ORTHOPAEDICS	2.019
34	JOURNAL OF ANESTHESIA	1.117
35	JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME	4.309
36	JOURNAL OF CANCER RESEARCH AND THERAPEUTICS	0.949
37	JOURNAL OF CLINICAL ONCOLOGY	17.96
38	JOURNAL OF CYTOLOGY	0.413
39	JOURNAL OF FORENSIC AND LEGAL MEDICINE	0.989
40	JOURNAL OF INFECTION AND PUBLIC HEALTH	-
41	JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES	2.765
44	JOURNAL OF PEDIATRIC ORTHOPAEDICS	1.426
45	JOURNAL OF POSTGRADUATE MEDICINE	0.972
46	JOURNAL OF ULTRASOUND IN MEDICINE	1.532
47	MEDICINAL CHEMISTRY RESEARCH	1.402
48	NATIONAL MEDICAL JOURNAL OF INDIA	0.878
49	NEPHROLOGY DIALYSIS TRANSPLANTATION	3.488
50	PARKINSONISM & RELATED DISORDERS	4.126

51	PATHOLOGY RESEARCH AND PRACTICE	1.562
52	PLOS ONE	3.534
54	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H- JOURNAL OF ENGINEERING IN MEDICINE	1.144
55	RESPIROLOGY	3.495
56	SCIENCE AND ENGINEERING ETHICS	1.516
57	SINGAPORE MEDICAL JOURNAL	0.634
58	TROPICAL DOCTOR	0.528
59	VALUE IN HEALTH	2.891
60	WIENER KLINISCHE WOCHENSCHRIFT	0.791
61	ZOOLOGICAL SCIENCE	0.876
	Total documents indexed in Web of Sciences in the year 2013	80
	Sum of the Times Cited	68
	Sum of Times Cited without self-citations	67
	Citing Articles	68
	Citing Articles without self-citations	67
	Average Citations per Item	0.85
	h-index	5
	<a href="https://apps.webofknowledge.com/CitationReport.do?product=WOS&amp;search_mode=CitationReport&amp;SID=U1iXX31QMw7ZcLoWDkU&amp;page=1&amp;cr_pgid=27&amp;viewType=summary&amp;colName=WOS">https://apps.webofknowledge.com/CitationReport.do?product=WOS&amp;search_mode=CitationReport&amp;SID=U1iXX31QMw7ZcLoWDkU&amp;page=1&amp;cr_pgid=27&amp;viewType=summary&amp;colName=WOS</a>	

Web of Science-2014		
#	Source Title in which articles published	Impact Factor
1	AMERICAN JOURNAL OF DERMATOPATHOLOGY	1.387
2	AMERICAN JOURNAL OF FORENSIC MEDICINE AND PATHOLOGY	0.701
3	AMERICAN JOURNAL OF GASTROENTEROLOGY	10.755
4	AMERICAN JOURNAL OF MEDICAL GENETICS PART A	2.159
5	AMERICAN JOURNAL OF THERAPEUTICS	1.129
6	ANNALS OF INDIAN ACADEMY OF NEUROLOGY	0.599
7	ASIAN PACIFIC JOURNAL OF CANCER PREVENTION	2.514
8	ASIAN PACIFIC JOURNAL OF TROPICAL MEDICINE	1.062
9	ASIA-PACIFIC JOURNAL OF CLINICAL ONCOLOGY	1.542
10	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	1.419
11	BJU INTERNATIONAL	3.533
12	CLINICAL AND EXPERIMENTAL DERMATOLOGY	1.092
13	CLINICAL BREAST CANCER	2.107
14	COCHRANE DATABASE OF SYSTEMATIC REVIEWS	6.032
15	CYTOTHERAPY	3.293
16	ENVIRONMENTAL RESEARCH	4.373
17	EPILEPSY & BEHAVIOR	2.257
18	EUROPEAN JOURNAL OF CANCER	5.417
19	GASTROENTEROLOGY	16.716
20	INDIAN JOURNAL OF CANCER	0.802

21	INDIAN JOURNAL OF DERMATOLOGY VENEREOROLOGY & LEPROLOGY	1.387
22	INDIAN JOURNAL OF MEDICAL RESEARCH	1.396
23	INDIAN JOURNAL OF OPHTHALMOLOGY	0.9
24	INDIAN JOURNAL OF ORTHOPAEDICS	0.64
25	INDIAN JOURNAL OF PATHOLOGY AND MICROBIOLOGY	0.466
26	INDIAN JOURNAL OF PEDIATRICS	0.867
27	INDIAN JOURNAL OF PHARMACOLOGY	0.691
28	INDIAN JOURNAL OF SURGERY	0.26
29	INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED	2.137
30	INTERNATIONAL JOURNAL OF DERMATOLOGY	1.312
31	INTERNATIONAL JOURNAL OF GYNECOLOGICAL CANCER	1.958
32	INTERNATIONAL JOURNAL OF LEGAL MEDICINE	2.714
33	INTERNATIONAL JOURNAL OF NEUROPSYCHOPHARMACOLOGY	4.009
34	INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS	0.905
35	INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS	4.258
36	JOURNAL OF CANCER RESEARCH AND THERAPEUTICS	0.791
37	JOURNAL OF CHILD AND ADOLESCENT PSYCHOPHARMACOLOGY	2.933
38	JOURNAL OF CLINICAL PSYCHOPHARMACOLOGY	3.243
39	JOURNAL OF CRANIOFACIAL SURGERY	0.678
40	JOURNAL OF EMPIRICAL RESEARCH ON HUMAN RESEARCH ETHICS	1.25
41	JOURNAL OF FORENSIC AND LEGAL MEDICINE	0.76
42	JOURNAL OF MEDICAL MICROBIOLOGY	2.248
43	JOURNAL OF NEPAL MEDICAL ASSOCIATION	0.104
44	JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES	2.817
45	JOURNAL OF PEDIATRIC ORTHOPAEDICS	1.474
46	JOURNAL OF POSTGRADUATE MEDICINE	0.855
47	LEGAL MEDICINE	1.238
48	NATIONAL MEDICAL JOURNAL OF INDIA	0.782
49	NEPHROLOGY DIALYSIS TRANSPLANTATION	3.577
50	NEUROLOGY INDIA	1.232
51	NEUROREHABILITATION	1.124
52	OCULAR IMMUNOLOGY AND INFLAMMATION	1.972
53	ORAL ONCOLOGY	3.607
54	PLOS NEGLECTED TROPICAL DISEASES	4.446
55	PLOS ONE	3.234
56	RESPIROLOGY	3.345
57	TROPICAL DOCTOR	0.481
58	VACCINE	3.624
59	VALUE IN HEALTH	3.279
	<b>Total documents indexed in Web of Science in the year 2014</b>	<b>78</b>
	Sum of the Times Cited	27
	Sum of Times Cited without self-citations	27
	Citing Articles	27
	Citing Articles without self-citations	27

	Average Citations per Item	0.35
	h-index	2
	<a href="https://apps.webofknowledge.com/CitationReport.do?product=WOS&amp;search_mode=CitationReport&amp;SID=U1iXX31QMw7ZcLoWDkU&amp;page=1&amp;cr_pgid=21&amp;viewType=summary&amp;colName=WOS">https://apps.webofknowledge.com/CitationReport.do?product=WOS&amp;search_mode=CitationReport&amp;SID=U1iXX31QMw7ZcLoWDkU&amp;page=1&amp;cr_pgid=21&amp;viewType=summary&amp;colName=WOS</a>	

### 23. Details of patents and income generated-

Dr.Kumar M.R, Additional Professor, Dept. of Anatomy, KMC, Manipal - US Patent– US2008/0299563 A1 – Microtubule associated protein-2 promoter – as useful diagnostic, prognostic tool in 1) neurodegenerative disorders 2) Small molecule screening 3) as a marker for neuronal differentiation

### 24. Areas of consultancy and income generated

NIL

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

1. Dr. Satish Kumar Adiga  
Visiting professorship at Max Delbrück Center (MDC) Berlin, Germany - To take up joint research in the area of molecular embryology
2. Dr. Guruprasad Kalthur  
Visiting professorship - Department of Physiology, National University of Singapore, Singapore.
3. Dr. Satish Kumar Adiga  
Visiting Scientist to Karolinska Institute, Stockholm, Sweden - To work on a research project entitled “Fertility preservation in cancer affected prepubertal boys” (October 2013)
4. Dr. Guruprasad Kalthur  
Visiting Scientist to University of Naples, Italy - To work on a research project entitled “ Fertility preservation in cancer affected prepubertal boys”
5. Dr.Arun Chawla  
Guest Visiting Teaching Faculty at B P Koirala Institution of Medical Sciences, Nepal

### 26. Faculty serving in

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

**Department of Urology**



Dr Joseph Thomas, Professor of Urology, serving as Editorial Board Member of Indian Journal of Urology.

Dr. Arun Chawla, Professor of Urology, serving as Reviewer of Indian Journal of Urology & Urology Annals.

### **Department of Paediatrics**

Dr. Girish K M, Professor, Division of Medical Genetics, Department of Pediatrics - **Associate Editor** of 'Genetic Clinics', the quarterly newsletter of Indian Academy of Pediatrics: Genetics Specialty Chapter.

### **Department of Biochemistry**

Dr. Pragna Rao, Professor, Dept. of Biochemistry, is Reviewer for the following journals:

Journal of Diabetes

Metabolism

Singapore Medical Journal [smj@sma.org.sg](mailto:smj@sma.org.sg) via editorialmanager.com

Indian Journal of Clinical Biochemistry,

International Journal of Proteomics

Posttranslational Modifications (PTMs): Enrichment, Analysis, and Applications

Dr. Pragna Rao, Professor, Dept. of Biochemistry, is Editorial Board Member of the following journals:

Indian Journal of Clinical Biochemistry,

International Journal of Health and Rehabilitation Sciences (IJHRS)

ISSN: 2278-9014 (Print)

ISSN: 2278-9030 (Online)

The Journal of Krishna Institute of Medical Sciences University (JKIMSU), (ISSN 2231-4261)

Clinical Epidemiology and Global Health (Official Journal of the IndiaClen Network)

### **Department of ENT**

Dr. Balakrishnan R, Prof of the ENT Dept. KMC, Manipal. (Editorial Board member – Indian Journal of laryngology & otology (IJLO))

### **Department of Dermatology**

Dr. S.D. Shenoi is the Guest editor : Psychodermatology symposium for Indian J. Dermatology, Jan – May 2012.

Dr. Sathish Pai B, Professor, Dept. of Dermatology, KMC, Manipal is in the editorial board of Indian Journal of Dermatology, Veneorology and leprosy from January 2012.

Dr. Smitha Prabhu is the Assistant Editor : Psychodermatology symposium for Indian J. Dermatology, Jan – May 2012.

### **Department of Microbiology**

**Dr. Prakash P Y-** Editorial Board Member of

1. Journal of Pharmaceutical and Biomedical Sciences (JPBMS)
2. Wudpecker Journal of Medicinal Plants (WJMP)
3. Academic Journals Online (AJO)
4. World Journal of Clinical Case Conference (WJCC)

**Dr. Vinay Khanna-** Editorial Board Member of

1. Journal of Clinical and Diagnostic Research
2. International Medical Journal of Students' Research

### **Department of Ayurveda**

Dr. M.S.Kamath, Additional professor is a member of editorial board of the Online journal International Journal of Pharmacology and Clinical Sciences (IJPCS).

### **Department of Pharmacology**

Dr. K. L. Bairy, Prof, Dept of Pharmacology– Member Editorial Board

- Journal of Natural Remedies
- Iranian Journal of Pharmacology and Therapeutics

### **Department of Nephrology**

Dr. Ravindra Prabhu is a reviewer for JETS(Journal emergency trauma,shock) and IJMMS(International journal of medicine and medical sciences

### **Department of OBG**

Dr. Pratap Kumar, Professor, Dept. of OBG, KMC Manipal

#### **Editorial Board Member:**

1. National Advisory Board of Journal "Perinatology – Journal of Perinatal and Neonatal care".
2. Member of Editorial Board of the Journal of Human Reproductive Sciences.
3. Member, Advisory Committee of Journal of Perinatal and Neonatal Care (2011).
4. Member, Advisory Board member of International Journal of Infertility & Fetal Medicine (2011).
5. Member of Editorial Board of the journal of Indian Obstetrics & Gynaecology (2012)

**Dr Muralidhar V Pai, Professor & Unit Head, OBG, Manipal,**

**"National Corresponding Editor"** of **"Jornal of Obstetrics & Gynecology of India"** (FOGSI) - official journal of "Federation of Obstetrics & Gynecology of India" since January 2011 and tenure is till December 2013.

### **Department of Psychiatry**

Dr.PSVN.Sharma Editorial Board member of  
 Indian Journal of Psychiatry  
 Indian Journal of Psychological Medicine  
 Asian Journal of Psychiatry

Dr. Samir Kumar P Editorial Board member of  
 Indian Journal of Social Psychiatry  
 World Psychiatry Journal

### **Department of Gastroenterology**

Dr. Ganesh Pai, Professor and HOD, Dept. of Gastroenterology and Hepatology.  
 Editorial Board members of National Journals:

- 1) Indian Journal of Gastroenterology
- 2) Indian Clinical Updates - Gastroenterology .

### Department of Forensic Medicine

1. Dr. Vikram Palimar, Additional Professor of Forensic Medicine is an Editorial Board Member of Journal of Indian Society of Toxicology (JIST).
2. Dr. Prashantha Bhagavath, Associate Professor is a Member of "International Advisory Board" in the journal, ACTA MEDICA (formerly Hacettepe Medical Journal from 1961 to 2011), is an official journal of the Hacettepe University, Faculty of Medicine. Turkey.
3. Dr. Prashantha Bhagavath, Associate Professor is a Member of "National Advisory Board" in the journal, International Journal of AJ Institute of Medical Sciences. India.

### Department of Orthopaedics

Dr. Benjamin Joseph:

1. Editorial Board: Journal of Pediatric Orthopaedics
2. Editorial Board: Journal of Pediatric Orthopaedics B
3. Editorial Board: Journal of Children's Orthopaedics
4. Reviewer: Journal of Bone and Joint Surgery [American]
5. International advisory Board member: Malaysian Orthopaedic Journal.

## 27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

Faculties regularly attend Refresher courses, orientation programs, national and international conferences, CMEs and workshops. Financial Incentives and special leaves are provided for the purpose of attending these programmes.

In-house training sessions, medical education workshops, orientations programmes, faculty development programmes are conducted on regular basis by the Medical Education Unit (MEU)

Other workshop series conducted by MEU:

1. Interviewing and being interviewed by TAPMI, Manipal faculty
2. Let's Click: Clickers in the Classroom by Dr. Kantilatha Pai and Dr. Madhukar Mallya
3. Group Discussion Skills by TAPMI, Manipal faculty

Basic MET Workshop October 2014 Schedule

### Medical Educational Technology Workshop Schedule

Date : 13<sup>th</sup>, 14<sup>th</sup> and 15<sup>th</sup> October, 2014

Venue: Kasturba Medical College, Manipal

MEU Convener: Dr. Sudhakar Nayak

Observer: Dr. Arpana Iyengar

Day 1 13 <sup>th</sup> Oct 2014	Day 2 14 <sup>th</sup> Oct 2014	Day 3 15 <sup>th</sup> Oct 2014
Breakfast 8am -8.30am Registration 8.30am- 9am	8.30am -9.00am Breakfast 9.00am -9.15am Recap – Day 1	8.30am -9.00am Breakfast 9.00am -9.15am Recap – Day 2
9am – 10 am Inauguration –Pretest Confidence rating & Group Photography <i>Dr. Sudhakar Nayak</i>	9.15am – 10.45 am Curriculum development & Quality Assurance in Medical Education <i>Dr. Pragna Rao</i>	9.15am – 11.15 am Interactive Teaching Learning methods <i>Dr. Kirthinath Ballala</i> <i>Dr. P Sampath Kumar</i> <i>Dr. George P Jacob</i>
10 am– 11 am Introduction Group Dynamics <i>Dr. Sudhakar Nayak</i>	10.45 am- 11.00am Tea	
11am – 11.15am Tea	11.00am -11.45am Principles of Assessment <i>Dr. Antony Sylvan D'Souza</i>	11.15am – 11.30am Tea
11.15 am– 12.45 noon Systems Approach, Learning Process, Adult Learning <i>Dr. Pragna Rao</i>	11.45am- 1.45pm Assessment of Knowledge <i>Dr. George P Jacob</i> <i>Dr. Veena Nayak</i>	11.30am – 12.15pm E- Learning <i>Dr. Pragna Rao</i>
12.45 – 1.30pm Lunch	1.45pm- 2.15pm Lunch	12.15pm- 1.30pm Good Teaching Practice <i>Dr. Pragna Rao</i> <i>Dr. Sudhakar Nayak</i> <i>Dr. P Sampath Kumar</i>
1.30pm -2.30pm Taxonomy of Learning Educational Objectives - I <i>Dr. Krishnananda Prabhu</i>	2.15pm -2.45pm Open House <i>Dr. Sudhakar Nayak</i>	1.30pm- 2.00pm Lunch

2.30 – 3.30pm Taxonomy of Learning Educational Objectives –II Dr. Krishnananda Prabhu	2.45pm -3.15pm Skills of effective Feedback Dr. Sudhakar Nayak	2.00pm- 4.00pm Skill Development & Assessment of Clinical and Practical skills Dr. P Sampth Kumar Dr. Kirtana Pai Dr. Kirthinath Ballala Dr. Veena Nayak
3.30pm -3.45pm Tea	3.15pm -3.30pm Tea	4.00pm- 4.30pm Closing Feedback and follow up
3.45pm – 5.15pm Microteaching & Media Dr. P Sampath Kumar	3.30pm -4.30pm Internal Assessment – Principles and its application Dr. Pragna Rao	Tea

## 28. Student projects

- percentage of students who have taken upin-house projects including inter-departmental projects –  
1%
- 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 MEMBERS:

#### Department of Physiology:

Sivakumar.G, Senior Grade Lecturer presented his research work titled “Oral Choline Supplementation Can be an Effective Pharmacological Adjuvant to Conventional stroke Physical therapy Rehabilitation program-Evidences from Hippocampal Neurons of Rat model of Ischemic Brain injury” and **awarded 3<sup>rd</sup> prize in III-International Conference & workshops of Physical Therapy, AIIMS 2014.**

#### Department of Biochemistry:

- Dr. Pragna Rao, Professor is awarded with Dr. TMA Pai chair in Laboratory quality management.

### Department of Pharmacology

- (i) Dr. Smita Shenoy, Additional Professor, Received **Good Teacher Award in 2014**
- (ii) Dr. Navin A. Patil, Assistant Professor, Awarded as the **Best sportsman - 2014** of Manipal university staff.
- (iii) Ms. Swapna Satheendran, Lecturer, Awarded **“The Best Paper Presenter In technical presentation and research contribution”** for the paper entitled “Estimation of cost-of-illness among psoriasis patients on Bath PUVA” in International Conference on Advances in Healthcare & Life-Sciences (ICAHL), Singapore

### Department of Pathology

Vidya Monappa, Ranjini Kudva, SESSIONS BEST POSTER: Myeloid sarcoma: A clinicopathological study with emphasis on diagnostic difficulties. At KCIAPM

### Department of Immuno Hematology and Blood Transfusion

Dr. Shamee Shastry received - ISTM travel fellowship

### Department of Medicine

Dr Kavitha Saravu, Second Prize for FREE paper category “In vivo assessment of chloroquine primaquine combined treatment efficacy in plasmodium vivax malaria in Udupi taluk – Primary health centres based prospective cohort study” at CIDSCON 2014, Clinical Infectious Disease Society Conference held in Bangalore from 22-24th Aug 2014.

### Department of Psychiatry

Dr.PSVN.Sharma - Prof.M.Vaidyalingam Memorial Oration Award 28<sup>th</sup> Dec. 2014, Chennai. Dr.Ravindra - Dr.S.S.Jayaram Award by Indian Psychiatric Society – Karnataka Chapter on 6<sup>th</sup> Sept. 2014, Udupi.

### Department of ENT

- (1) **Dr. Ajay Bhandarkar, Assistant Professor in ENT Dept.** – Award : Gold Medal Award for Best Scientific poster in south zone category for “Amelanotic malignant melanoma of cervical oesophagus.
- (2) **Dr. Gurshinderpal Singh Shergill, Assistant Professor in ENT Dept.**



Award : Runner up for Best Scientific paper in south zone category for “Gurumurthy teaching faculty gold medal scientific paper presentation”–  
Topic –“An comparative study of tragal cartilage and temporalis fascia as a graft material in Type I Tympanoplasty”.

(3) **Dr. Shalini S,**

Award : Runner up for Best Scientific paper in south zone category for “Gurumurthy teaching faculty gold medal scientific paper presentation”  
Topic - Malignant otitis externa – the challenging dilama

**Department of Anaesthesiology**

**Dr Krishna H M, Professor of Anaesthesiology,** KMC, Manipal won 2<sup>nd</sup> prize in ISH Narani Poster competition in ISACON 2014 Madurai for a Poster on ‘Two techniques to facilitate oral insertion of LMA CTrach’. This was co-authored by Dr Karri Pavani and Dr Nandhini Joseph, Postgraduates in Anaesthesiology.

**Dr Madhumitha, Junior Resident(2<sup>nd</sup> year PG),Department of Anaesthesiology** won 2<sup>nd</sup> prize in poster Competition for the poster ‘Anaesthetic management of a case of insulinoma masquerading as a seizure disorder’ under guidance of Dr Shriram Vaidya in KISACON 2014 Dharwad.

**Dr Sushma T K, Junior Resident (2<sup>nd</sup> Year PG), Department of Anaesthesiology** won 1<sup>st</sup> prize in e-poster Competition for the poster ‘Misplaced tracheostomy tube; airway exchange catheter and fiberoptic bronchoscope save the patient’ under guidance of Dr Manjunath Prabhu and Dr Shriram Vaidya in ISACON 2014 Madurai.

**Department of Radiology/Radiodiagnosis**

Dr.Smiti, Professor, underwent commonwealth academic fellowship in “breast imaging” at Southend University hospital ESSEX UK, from Jan. 2014 to April 2014.

**Department of Neurosurgery**

Dr.Sunil Upadhyaya (Neurosurgery skills training workshop 14<sup>th</sup> ) has been awarded 1<sup>st</sup> prize for Neuroendoscopic practice.

**Department of Hospital Administration**

Dr. Naveen Kumar received an award for his contribution towards research paper

**Department of Medical Genetics**

**Dr Anju Shukla**

International travel support from Science and Engineering Research Board, Department of Science and Technology to attend 60<sup>th</sup> Annual Meeting of American Society of Human Genetics, San Diego, CA, October 18-22, 2014

### **Department of Clinical Embryology**

- **Dr Satish Kumar Adiga:** Received felicitation for outstanding work in the field of embryology, during the Academy of Clinical Embryologist (ACE) International Conference in Indore on 8<sup>th</sup> August 2014.
- **Dr Guruprasad Kalthur:** Received the 3<sup>rd</sup> prize for paper presented on “Effect of repeated superovulation on the developmental potential of mouse embryos in vitro” during the 10<sup>th</sup> Annual National conference on Indian Fertility Society from 19-21 December 2014.
- **Ms Shubhashree U:** Dr T.M.A Pai gold medal for excellence in Medical Research for the year -2013
- **Ms Shubhashree U:** First prize for oral presentation under Health Science Category in the Manipal Research Colloquium- 2014 at Manipal University on April 11<sup>th</sup>& 12<sup>th</sup> 2014.
- **Ms Shubhashree U:** First prize for paper presentation in free paper session, during the 3<sup>rd</sup> International Conference of Academy of Clinical Embryologists (ACE-2014) in Indore (MP) from August 8<sup>th</sup> to 10<sup>th</sup> 2014.

### **Research Ambassador**

**Dr Satish Kumar Adiga:** Appointed as Research Ambassador for India from German Research Foundation (DAAD), Germany for three years.

### **c) Students**

#### **Department of Biochemistry**

1. Dr. Vijetha Shenoy Belle(MD PG) was Awarded first prize in poster competition at Manipal Cardiology Update 2014, Manipal Institute of Technology, Manipal, November 2014 for her poster “NT-proBNP in assessing the severity of stable coronary artery disease” done under the guidance of Dr. Krishnananda Prabhu
2. Dr. Vijetha Shenoy Belle(MD PG) was Awarded 2<sup>nd</sup> Best Oral Presentation Award at International Non Communicable Disease Research Meet, Kasturba Medical College, Manipal January 2014 for Association between vitamin D,

fasting blood glucose, HbA1c and fasting lipid profile in euglycemic individuals done under the guidance of Dr. Krishnananda Prabhu

3. Dr. Vijetha Shenoy Belle(MD PG) was Awarded Best Oral Presentation Award, South Regional Conference of the Association of Clinical Biochemist of India, Ocean Pearl, Mangalore, May 2014 for Serum Myeloperoxidase and HDL-cholesterol in stable coronary artery disease done under the guidance of Dr. Krishnananda Prabhu
4. 2<sup>nd</sup> prize won by Biochemistry MD – PGs Dr. Kriti Singh, Dr. Vijetha Shenoy Belle and Dr. Priyanka Datta in Collage Competition on the occasion of World Cancer Day organized by Dept. of Community Medicine and Rotary Club Manipal on 4<sup>th</sup> February 2014 .

### **Department of Pharmacology**

1. Dr. Rinz Mathew Paulose, MD Postgraduate II year obtained I<sup>st</sup> prize, Postgraduate Lecture Update- 2014 for the topic “*SOFOSBUVIR – The beginning of an end to hepatitis*“ held on 12<sup>th</sup> March 2014 at MCOPS, Manipal
2. Dr. Disha Shetty, MD Postgraduate Final year obtained II<sup>nd</sup> prize, Postgraduate Lecture Update- 2014 for the topic “*Droxidopa*” – *Chasing the “falls” in neurogenic orthostatic hypotension*” held on 12<sup>th</sup> March 2014 at MCOPS, Manipal

### **Department of Pathology**

Dr.Ashitha N.N., Dept. of Pathology, Dr.Pathuri Avinash, Dept. of Medicine, Dr.Soumya Das, Dept. of Transfusion Medicine, secured 3<sup>rd</sup> prize in 4<sup>th</sup> National Postgraduate quiz of South Zone on Haematocon 2014, 55<sup>th</sup> Annual Conference on Indian Society of Haematology and Blood Transfusion conducted on 09.08.2014 at Narayana Hrudayalaya, Bangalore.

### **Department of Immuno Hematology and Blood Transfusion**

ISTM Post-graduate Student Award	2014	Dr Deepika, Dr Soumya	Transmedcon, 2014, Ahmedabad
ISTM Travel fellowship Karnataka Chapter	2014	Dr Deepika, Dr Soumya	ISTM, Karnataka Chapter
3 <sup>rd</sup> place in ISHTM Quiz – State Round	2014	Dr Soumya	ISHTM, Bangalore

3 <sup>rd</sup> place in ISTM National Level Quiz	2014	Dr Deepika, Dr Soumya	Transmedcon, 2014, Ahmedabad
Award for Best Poster	2014	Dr Soumya	Transmedcon, 2014, Ahmedabad

### Department of Microbiology

1. Dr. Isra Halim ,MD-PG department of Microbiology **Won first prize** in the debate competition held at World tuberculosis day March 2014 in the Department of Community Medicine, KMC, Manipal.
2. Dr. Souranshu Chatterjee,MD-PG department of Microbiology **Won first prize** in the debate competition held at World tuberculosis day March 2014 in the Department of Community Medicine, KMC, Manipal.
3. Miss Soumita ChatterjeeMSc.PG department of Microbiology **Won second prize** in the debate competition held at World tuberculosis day March 2014 in the Department of Community Medicine, KMC, Manipal
4. Miss. Akshatha ,MSc.PG department of Microbiology **Won Second prize** in the debate competition held at World tuberculosis day March 2014 in the Department of Community Medicine, KMC, Manipal

### Department of Community Medicine

1. Dr Priya Rathi won Second Prize in Quiz competition held at 6th Inter College Postgraduate Academic Programme held in KSHEMA institute, Mangalore.
2. Dr Priya Rathi won Second prize in Poster Presentation on “impact of social marketing on maternal and child health: study of RMCW home attached to a teaching hospital.

### Department of Medicine

#### **- Dr. Shah Sanket - final postgraduate student has awarded**

1. 2<sup>nd</sup> prize- TB Day Manipal March 2014
2. 2<sup>nd</sup> prize- KAPICON Quiz June 2014
3. 1<sup>st</sup> Prize- KRSSDI 2014 Mangalore –September 2014
4. 1<sup>st</sup> prize in Quiz – Haematology Zonal South West- October 2014
5. 1<sup>st</sup> prize in Quiz – Manipal Cardiology Update November 2014
6. 14<sup>th</sup> Prize in India and 1<sup>st</sup> in Karnataka –All India HIV Exam –November 2014
7. 2<sup>nd</sup> prize in ASICON 2014 (National Level) December 2014

**Dr. Naresh Kumar – Final year postgraduate student has awarded**

1. 1<sup>st</sup> prize in Quiz – Manipal Cardiology Update November 2014
2. 2<sup>nd</sup> Prize in CIDSCON 2014 August 2014 –poster presentation- HDL Cholesterol as an acute phase reactant in severe sepsis patients in medical intensive care unit in a tertiary care hospital

**Dr. Baby Nagapriya-Final year postgraduate student has awarded**

1. 1<sup>st</sup> prize in Quiz – Manipal Cardiology Update November 2014
2. 1<sup>st</sup> Prize- KRSSDI 2014 Mangalore –September 2014

**Department of Dermatology**

1. Dr. Tejasvi won the second prize in Dermatalk case study Contest organized by [www.doctalkpanel.com](http://www.doctalkpanel.com),
2. Dr. Ajitesh won 1<sup>st</sup> prize for paper presentation titled “ Estimation in skin type IV & V patients “ during CME – Phototherapy at Manipal on 24/08/14
3. Dr. Nupur won 2<sup>nd</sup> prize for paper presentation titled “ Profile of patients with floor binding subepidermal Immunobullous disease” during CUTICON KARNATATION 2014 at Bijapur from 1-2 November, 2014
4. Dr. Deepthi Ravi won 2<sup>nd</sup> prize for poster presentation titled “ Congenital self healing langerhans cell histiocytosis” during ISPD , at Kolkata from 14-16 November, 2014.

**Department of Psychiatry**

1. Dr.Roopa G – Dr.HS.Subramanyam Memorial Best PG paper award paper Karnataka Chapter on 6<sup>th</sup> Sept. 2014, Udupi
2. Dr.Roopa G – Dr.DS.Raju Memorial Best PG paper award IPSOCON, Bangalore 18<sup>th</sup> Oct. 2014

**Department of Pulmonary Medicine**

1. Dr. Shahul Hameed Aboobakar, final year postgraduate, received the V. Raju award for the best research paper presentation (“Pattern of allergen sensitivity among patients with nasobronchial allergy in a tertiary care center in South India”) at National conference of the Indian College of Allergy, Asthma & Applied Immunology (ICAAICON 2014) held at JSS Medical College Auditorium, Mysore on 14 December 2014.

2. Dr. Shahul Hameed Aboobacker, final year postgraduate, received the award for winning best interactive case discussion off stage in the ICS talent search 2014 held in A.J. Institute of Medical Sciences, Mangalore on 19<sup>th</sup> January 2014.

### **Department of Surgery**

1. Dr. Soudamini Nayak won the Late Shri B Puttee Gowda Award for the Best Out-going Student.
2. Dr. Zubair Ahmed won the ‘Surgery HOD’s – Award for the Best Post Graduate Student.
3. Dr. Viswanath Atreyapurapu and Dr. Ravikiran Naalla have won IIIrd prize in the National Talent Research Quiz conducted by the Department of Plastic Surgery held at Ganga Hospital, Coimbatore

### **Department of Orthopaedic**

1. Best poster award: “An unique association of unilaterally radial longitudinal deficiency with Townes-Brocks syndrome” which one of the best sub speciality poster award at the 59th Annual Conference of the Indian Orthopaedic Association at Hyderabad from 19th to 22nd November 2014. Presenting author: Dr. Vishnu
2. IOACON Quiz competition 2014: Dr. Jayakrishnan K.N. & Dr. Aravindh T. Junior Residents, Orthopaedics won 1st Prize in All India Quiz Competition conducted during 59th Annual Conference of the Indian Orthopaedic Association, IOACON 2014, held at Hyderabad from 19th to 22nd November 2014.

### **Department of Radiology/Radiodiagnosis**

Dr. Samir P. M got Student Radiologist in the year 2014.

### **Department of Neurosurgery**

Dr. Geover Lobo has been awarded the best paper prize in the State Neuroscience conference (KANACON 14) held at Shimoga on 16<sup>th</sup> and 17<sup>th</sup> February

### **Department of Hospital Administration**

1. Dr. Charan: First Prize, Poster Presentation, and “Patient Safety” at CMC, Vellore, January 2014.
2. Dr. Pavithra : Third Prize, Poster, “SASH” September 2014

### **Department of Medical Genetics**

**Shalini S Nayak:** Best oral presentation award at Indo-US Symposium on Genomic Insights into Human Morphogenesis: Prenatal, Postnatal and Molecular Dysmorphology; 2014, November 7-9; Hyderabad, India.

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

<b>KMC - Workshop/CME/Symposium/Seminar/Conference Details 2014-15</b>			
<b>Sl #</b>	<b>Name</b>	<b>Department</b>	<b>External Funding (ICMR &amp; SERB)</b>
1	Apgap 2014	Anaesthesia	
2	Ayurvision 2014	Ayurveda	
3	KMC-Herbal Cosmetology	Ayurveda	
4	Transfusion Medicine Update 2014	Blood Bank	
5	KMC-Manipal Cardiology Update 2014	Cardiology	
6	Micromanupulation Workshop	Clinical Embryologies	
7	KMC-International Symposium- Fertility Preservation	Clinical Embryologies	115000
8	Stastical Analysis Using R	Community Medicine	
9	Workshop on Statistical Analysis Using SPSS	Community Medicine	
10	Workshop cum CME on Phototherapy	Dermatology	
11	KMC-Workshop on Head & Neck Oncosurgery	ENT	
13	KMC-Update in Hepatology	Gastroentrology	
14	CME on Current Perspective on Medical Audit	Hospital Administration	
15	Milap -Alumni Meet	Hospital Administration	
16	Implementation of NABH Standards in hospitals	Hospital Administration	
17	CME Programme on Medical Practice & Legal Issu	Hospital Administration	
18	Manipal Conventus 2014(SRF)	KMC SRF	
19	KMC- NCD 2015 (Medicine DEPT.)	Medicine	
20	KMC-Manipal Infectious Diseases CME 2014	Medicine	
21	KMC-CME in Endocrinology	Medicine	
22	KMC-Manipal Medicine Clinical CME-2015	Medicine	
23	National Workshop on Parasitology	microbiology	



24	Workshop on Diagnostics Techniques in Medical Mycology	Microbiology	
25	Symposium-Zeroing on HIV/AIDS	Microbiology	
26	TB Diagnostocs- Lens to Genes	Microbiology	
27	DR. A. Padma Rao Memorial Post Graduate Update	OBG	
28	KMC-Advances in Gynaecologien OncologyY 2014	Oncology	
29	Update on Gloucoma	Ophthalmology	
30	KMC-Imminization Update CME	Peadiatrics	
31	Manipal Genetics Update 2014	Peadiatrics Genetics	40000
32	CME Organised by IAP & Dept.of Pediatrics	Peadiatrics	
33	CME on Investigators Training	Pharmacology	
34	KMC-Psychiatry Update 2014	Psychiatry	
35	Conf.on Midpulmocon 2014	Pulmonery Medicine	
36	KMC-CME on Body MRI & PET CT	Radiology	
37	Diabetes Mellitus & Cardivascular Diseases	Simulation Centre	
38	CME on Manipal Surgery Clinifest- 2014	Surgery	

### 31. Code of ethics for research followed by the departments

As per Standard Operating Procedures for theKasturba Medical College & Kasturba Hospital Institutional Ethics Committee, Manipal, Karnataka - 576 104.Version March 11<sup>th</sup>, 2015

### 32. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	SELECTED	
		MALE	FEMALE
MBBS	49654	117	133
Post Graduate Degree	13503	89	63
Post Graduate Diploma			
MSc (Medical)	278	10	31
DM/MCH	176	12	3
MPHIL	4	2	0
CERTIFICATE	50	7	11
PhD	22	4	2

### 33. Diversity of students (Year of admission 2014-15)

Name of the Program	% of students from the same university	% of students from other universities within the state	% of students from other universities within the state	% of students from other countries.
MD(Anesthesiology)	0	50	50	0
MD(Biochemistry)	100	0	0	0
MD(Community Medicine)	0	25	75	0
MD(Forensic Medicine)	0	0	100	0
MD(General Medicine)	10	5	85	0
MD(Microbiology)	0	0	100	0
MD(Anatomy)	50	0	50	0
MD(Paediatrics)	0	10	90	0
MD(Pathology)	11	33	56	0
MD(Pharmacology)	17	33	50	0
MD(Physiology)	0	100	0	0
MD(Psychiatry)	0	0	67	33
MD(Radiodiagnosis)	0	17	83	0
MD(Radiotherapy)	0	33	67	0
MD(DDVL)	0	33	67	0
MD(Pulmonary Medicine)	0	100	0	0
MD(Immuno Haematology & Blood transfusion)	0	0	100	0
MD(Hospital Administration)	33	33	33	0
MS(Obstetrics & Gynaecology)	11	44	44	0
MS(Oto-Rhino-Laryngology)	25	25	50	0
MS(General Surgery)	13	25	63	0
MS(Ophthalmology)	0	50	50	0
MS(Orthopaedics)	22	33	33	11
DA(Anaesthesiology)	0	0	75	25
DGP(Clinical Pathology)	100	0	0	0
DGO(Obstetrics & Gynaecology)	0	60	40	0

DO(Ophthalmology)	0	100	0	0
D.Ortho(Orthopaedics)	25	0	75	0
DLO(Oto-Rhino-Laryngology)	0	0	100	0
DCH(Paediatrics)	0	50	50	0
DPM(Psychiatry)	0	50	50	0
DMRD(Radio Diagnosis)	0	0	100	0
DDVL(Dermatology, Venereology & Leprosy)	0	50	50	0
DM(Cardiology)	67	0	33	0
DM(Neurology)	50	50	0	0
MCh(Urology)	33	0	67	0
MCh(Paediatric Surgery)	0	100	0	0
MCh(Neuro-Surgery)	0	100	0	0
DM(Gastroenterology)	0	0	100	0
DM(Nephrology)	100	0	0	0
MSc(Medical)Anatomy	0	60	40	0
MSc(Medical)Physiology	0	100	0	0
MSc(Medical)Microbiology)	0	44	56	0
MSc(Medical)Biochemistry	19	69	6	6
MSc(Medical)Pharmacology	0	75	25	0
MSc(Yogatherapy)	0	60	40	0
PG certificate course in Panchakarma	0	50	50	0
MPhil(Psychiatric Social Work)	50	50	0	0
MSc(Clinical Embryology)	50	33	0	17
MSc(Genetic Counselling)	50	0	50	0

**34. 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.**

Data Not available

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	Data Not available
PG to M.Phil, DM / M Ch / DNB	Data Not available

Student progression	Percentage against enrolled
PG to Ph.D.	Data Not available
Ph.D. to Post-Doctoral	Data Not available
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	Data Not available
Entrepreneurs	Data Not available

### 36. Diversity of staff

Percentage of faculty who are graduates	Number	% age
•of the same University	106	25.8
•from other Universities within the State	212	51.6
•from Universities from other State	92	22.4
•from Universities outside the country	1	0.25

### 37. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period

3

### 38. Present details of institutional infrastructural facilities with regard to

#### a) Library –

Manipal University has an excellent Health Sciences Library, perhaps the best among all Health Sciences Libraries in India. The state-of-the-art library stretching over 1.5 lakh square feet, on five levels is a domain for information seekers; be it students, faculty members or researchers. It has the capacity to accommodate 1300 students at a time. Besides the comfortable seating and reading environment, the library is well equipped with modern facilities such as e-Learning, access to internet and web resources including online journals and e-books. Library is providing a growing range of databases available in electronic form on the campus network. All the library services have been automated on modern line. The library has fully computerized its collection, which could be accessible through OPAC. The library is enabled with Wi-Fi technology and security systems with Closed Circuit Television System (CCTV). There is a separate audio-visual room, computer lab, group study area and private study area in the library. The library has all the facilities for the students to learn. The Health Sciences Library is committed to provide a world-class information support to its users.

b) Internet facilities for staff and students

Centralized internet facility is available for staff and students in the health sciences library. All the faculty rooms and departments are provided with internet facility (LAN/WiFi). WiFi facility is available in campus for students

c) Total number of class rooms

Lecture halls – 8

Demonstration rooms – 32

d) Class rooms with ICT facility and ‘smart’ class rooms

All class rooms are equipped with ICT facility.

e) Students’ laboratories

There are 14 undergraduate laboratories

f) Research laboratories

There are 10 research laboratories used by the postgraduates and doctoral students I addition to the central research laboratory.

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university  
b) from other institutions/universities

Doctoral students from the host institution/university		Doctoral students from other institutions/universities	
Roll No.	Student Name	Roll No.	Student Name
120100001	Snehunsu Adhikari	120100006	Fiona Olvitta D Souza
120200005	R Huban Thomas	120100007	Shubhashree U
120200008	Lydia S Quadros	120100108	Sri Lakshmi Bhavani G
120100009	Vanishri S. Nayak	130100001	Schin Digamber
120100102	Suprabha	130100003	Ramya Nair M T
120100101	Jenu Maria Thomas	130100105	Kamat Nagesh Kamat
120100103	Kallol Roy	130100006	Sapna Ganesh
120100104	Hemalatha Bangera	140100001	Azadeh Bagheri
120100105	Yousef Rezaei Chianeh	140100101	Prashanr P Nair
120100106	Bhaskar Gaonkar	140100104	Malavika H

130100002	Parashuram Rao T P	140101106	Konuri Anjeyulu
130100004	Umesh Thonse	--	--
130100005	Sushma R K	--	--
130100101	Thejas K R	--	--
130200104	Mr Kiran Kumar N	--	--
130100103	Ranjini H S	--	--
130100102	Shivakumar M	--	--
131500001	Swapna S	--	--
140100003	Ansha Patel	--	--
140100002	Sanu Susan Jacob	--	--
140100103	Smrithi	--	--
140100102	Avinash Holla	--	--
140101105	Prasad N Shetty	--	--

**40. Number of post graduate students getting financial assistance from the university.**

Description	Year		
	2012-13	2013-14	2014-15
Research Grant Sanctioned	8	5	18
Travel conference	119	119	85

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

Need assessment exercise was not undertaken before the development of new program

**42. 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?

Institution obtains feedback from faculty on curriculum and teaching-learning – evaluation. Regular departmental meetings are conducted and faculty are encouraged to give feedback as well suggest modification to the curriculum or

teaching-learning-evaluation. These changes will be discussed in the board of studies and implemented.

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

Institution obtains feedback on the staff members about the teaching and other extra-curricular aspects about the staff.

Institution also obtains feedback from students on curriculum and teaching-learning –evaluation. Students are made members of the board of studies and they are given opportunity express their views on curriculum and teaching-learning – evaluation. Feasible changes are implemented.

- c. alumni and employers on the programs offered and how does the institution utilize the feedback?

Feedback from alumni and employers are not obtained.

#### 43. List the distinguished alumni of the institution (maximum 10)

Sl. #.	Alumni Name
1	Dr. Sampath Shivangi.
2	Dr. Ramdas G. Pai.
3	Dr. K M Cherian.
4	Dr. Umeshraya T Pai.
5	Dr. Devi Prasad Shetty.
6	Dr. R V Ramani.
7	Dr. Sudarshan Ballal.
8	Dr. Bellur Prabhakar.
9	Dr. Jagadish Bhutani.
10	Dr. C N Manjunath.
11	Dr. Anupam Agarwal.
12	Dr. N P Shanker Narayan
13	Dr. Sheikh Muszaphar Shukor

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

##### Department of Hospital Administration:

1. Dr. Sanjiv Sood, Group Captain Air force command Chandigarh, Delivered a lecture on, Quality & Patient Safety in Healthcare, in the month of June 2010



2. Dr. Shakti Kumar Gupta, Professor & Head AIIMS New Delhi, Delivered a lecture on Patient Safety in Hospitals, in the month of October 2010.
3. Mr. Harish, Chief Architecture, L & T, Delivered a lecture on Hospital Planing & Designing, in the month of June 2011
4. Mr. Ganesh H C , IT Professional Delivered a Lecture on IT in Health Care, in the month of August 2011
5. Dr. Gigi Joseph, Dept. of Hospital Administration, Indiana Hospital & Heart Institution, Delivered a Lecture on Recent Trends in Hospital Administration in the month of February 2012
6. Dr. Ram Mohan Desu, Associate Professor, Dept. of hospital Administration, Narayana Medical College Nellore, Delivered a Lecture on transaction Analysis, in the month of February 2013.
7. Dr. Shivendra Kumar Singhal, Medical Director & Professor & Head Dept. of Forensic Medicine & Toxicology, ACPM Medical College, Dhule, Maharashtra, Delivered a Lecture on Mitigation of Litigation in the month of August 2014
8. Dr. Sudhakar Kantipudi, DMS, KH Manipal, Delivered a Lecture on How to make money in the month of September 2014
9. Mr. Sudhakar Prabhu, AGM Finance KH Manipal, Delivered a Lecture on Financial Management in the month of September 2014.
10. Mr. Anil Paul Jacob, AGM Marketing KH Manipal, Delivered a Lecture on Marketing Management in the month of November 2014
11. Dr. Manjunath, Deputy Labour Commissioner, Karnataka State, Delivered a Lecture on Human Resource Mngement in Hospital Scenario in the year 2014

### **Department of Nephrology:**

1. Students Enrichment Programmes once a year workshop on peritoneal dialysis involving hands on experience.
2. Once a year workshop on hemodialysis.
3. Guest lectures by outside faculty (Dr.K.L Gupta HOD PGI Chandigarh, Dr.K.S Nayak Hyderabad, Ravishankar Bhat Manipal Hospital, Bangalore.

### **Department of Paediatrics**

#### **Undergraduates:**

#### **Guest Lectures:**

- a) Dr. Raj Warriar, Oshner Medical center, Orleans Los Angeles, USA, “Ochsner for children” on 20.10.14, Topic: Cancer.
- b) Lecture series by faculty from, Oshner Medical center, Orleans Los Angeles, USA, “Ochsner for children” on 14.1.15.

Lecturer: Dr. Raj P Warriar	Topic: Cancer & environment.
Lecturer: Dr. White	Topic: Antenatal Diagnosis & Management of congenital Malformation.
Lecturer: Dr. Serrano	Topic: Role of Paediatrician in liver transplantation.
Lecturer: Dr. A. Gedalia	Topic: SLE in Children.
Lecturer: Dr. Reichman	Topic: When to consider liver transplantation in children.

**Postgraduates:****Guest Lectures:**

- a) Dr. Shalini Shenoy, Paed. Hemato-oncologist, St. Lewis, USA, on 17.6.14 topic Stem cell-tranplantation.
- b) Dr. Gururaj Aithal, Neonatologist, UAE on 11.7.14 topic Neonatal sizers.
- c) Lecture series by faculty from, Oshner Medical center, Orleans Los Angeles, USA, "Ochsner for children" on 14.1.15,

Lecturer: Dr. Raj P Warriar	Topic: Cancer & environment.
Lecturer: Dr. White	Topic: Antenatal Diagnosis & Management of congenital Malformation.
Lecturer: Dr. Serrano	Topic: Role of Paediatrician in liver transplantation.
Lecturer: Dr. A. Gedalia	Topic: SLE in Children.
Lecturer: Dr. Reichman	Topic: When to consider liver transplantation in children.

- d) "Update of Seasonal Paediatric Infections" CME on 5.10.14

- e) "Immunization Update" CME on 8.2.15

Lecturer: Dr. Kalyan C K	Topic: Immunization basics.
Lecturer: Dr. Sathishchandra	Topic: Experience of Eradication of Polio and its application for other vaccine preventable diseases & Adverse events following immunization.
Lecturer: Dr. Prashanth Naik	Topic: Newer Vaccines.
Lecturer: Dr. Jayashree P	Topic: Vaccines in special situations
Lecturer: Dr. Asha P Hegde	Topic: Adolescent Vaccination
Lecturer: Dr. Sudharshan Udupa	Topic: Lapse Immunization.

- f) Online Lecture: 26<sup>th</sup> June 2015 "Discovering the importance of Stability and Quality in Probiotics" by Prof. Lorenzo Morelli, Milan, Italy.

**Department of Pharmacology:**

#.	Programme	Date	Resource person
1	Workshop on “How to write and publish a scientific article”	17th and 18th May 2013,	(i) Dr.Chetna Desai Professor of Pharmacology B.J. medical College, Ahmedabad (ii) Dr. Kavita Maradi Associate Professor of Pharmacology Indira Gandhi Medical College, Shimla, Himachal Pradesh (iii) Dr.Anuradha Gandhi Professor of Pharmacology B.J. Medical College, Ahmedabad
2	Workshop on “Pharmacoeconomics and Patents – What researchers need to know?”	21 <sup>st</sup> and 22 <sup>nd</sup> March 2014	(i) Dr. Aruna Sree, GNA, Mumbai (ii) Dr. Kannan Sridharan MD, DM Assistant Professor Department of Pharmacology, Subharti Medical College, Subharti University Delhi-Haridwar Bypass Road, UP (iii) Dr. Shaantanu Shrikrishna Donde MBBS,MS (Pharm Med) Senior Manager Medical and Research Division Pfizer Ltd. Mumbai
3	Guest lecture	17th Sept. 2014	Dr. Sujatha Sridhar Executive Director – Research Compliance ,University of Texas Health Science Centre, Houston
4	CME on “Investigators training Programme”	26 <sup>th</sup> & 27 <sup>th</sup> September 2014	(i) Dr. Sangeetha Myles Ms. Snehal Chalke Mr. Aju Varghese Investigator Site Development Lead, Pfizer, India Ltd.

### Department of Psychiatry:

1. Psychiatry Update 2013 – 16<sup>th</sup> & 17<sup>th</sup> Nov. 2013  
 Topic: Psychotherapy Workshop  
 Guest Faculty: Dr.Raghunandan Mani, Dr. Mahendra Sharma, Dr. Sathish Girimaji, Dr. Ahalya Raguram, Dr.R.Raguram.
  
3. Psychiatry Update 2014 - 15<sup>th</sup> & 16<sup>th</sup> November 2014  
 Topic: Clinical Skills Workshop on Cognitive Assessment and Remediation  
 Guest Faculty: Dr. Shobini L Rao Dr. Roopesh BN, Dr Poornima Bhola

### **Department of radiotherapy:**

Dr Lakshmikanth , Advances in imaging in urological malignancies  
 Dr Ganesh Bakshi' Natural history of small renal masses and nephron sparing surgery  
 Dr Krishna Prasad' Newer molecules in the management of metastatic RCC  
 Dr Rajeev T P, Topical therapies for NMIBC  
 Dr Srivatsa Narasimha, Current concepts in the surgical management of MIBC  
 Dr Vedang Murthy, Emerging role of radiotherapy in bladder cancer  
 Dr Guruprasad, Chemotherapy in bladder cancer  
 Dr Ganesh Bakshi, Robotic radical prostatectomy  
 Dr G.V.Giri, IGRT in ca prostate  
 Dr Karthik Udupa, Systemic management of metastatic prostate cancers

#### **45. List the teaching methods adopted by the faculty for different programs including clinical teaching.**

1. Lectures
  - Chalk board
  - OHP
  - Power point presentation
2. Seminars
3. Problem based learning
4. Practical's
5. Demonstrations
6. Tutorials
7. Integrated and competency based learning
8. Clinical skills lab teaching
9. Bed side teaching
- 10.OSCE
- 11.OSPE

#### 46. How does the institution ensure that program objectives are constantly met and learning outcomes are monitored?

Performance of the student in the following is defined as the outcome:

1. Sessional examination
2. Internal assessment
3. Formative and summative assessment

Program objectives are met by:

1. Feedback to students on their performance and results of assessment during each semester
2. Feedback from students on faculty with regard to teaching
3. Regular appraisal of staff performance

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

Faculty and students are encouraged to participate in collaboration with other organizations in carrying out social outreach programs.

- Social Welfare Committee of the student council is involved in providing care and support for the underprivileged in the society.
- Community medicine department is actively involved in providing primary health care to the people of the district with the involvement of the students. Its helps the government in implementing various National programmes.
- Faculty from department anesthesiology participate in “Operation Smile International Mission”
- Faculties from various departments organize camps in rural areas and provide basic and advanced health care for the people.
- Forensic Medicine department conducts sessions on regular basis to PHC doctors, police officers and Judges.

#### 48. Give details of “beyond syllabus scholarly activities” of the institution.

SARC- Student Activities and Research Center is the forum which looks after the involvement of the Students in “beyond syllabus scholarly activities”.

Following committees regularly organize events for students.

- HOPES - Health Organization for Public Education by Students  
HOPES intends to raise awareness about disease prevention by bringing the fundamentals of health education to the forefront in the community  
They have following community activities under their banner. Valentine’s Day Rose Fundraiser, Tuberculosis Awareness Program, Diabetes Educational Seminar, Pediatric Health Awareness Sessions.
- Cutting Edge - has following as its aims and objectives.

- Organize and promote talks, events, workshops and lectures in the field of surgery for students of Kasturba Medical College, Manipal.
- Work to orient students at Kasturba Medical College, Manipal to surgery as a career for their better understanding of the same.
- Liaise with other surgical societies around the globe regarding events for students who are interested in the field of surgery.
- Scientia Medicina - Aims to provide information regarding non-surgical specialties like internal medicine, pediatrics, radiology, pulmonary medicine, forensic medicine, community medicine, intensive care medicine, cardiology, nephrology, oncology so that they could chose them as a possible career choice.
- Student Research Forum - The Student Research Forum of KMC Manipal provides a platform for medical research for students in their formative years before entering the world as the next generation of physicians and physician scientists. At its core, SRF strives to ignite a spark of inquisitiveness among students to go above and beyond the textbooks and theories of the MBBS curriculum into the realm of real life practical applications of what they are taught, thus fueling their intellectual intrigue, assisting in medical and professional development and increasing their general knowledge.
- College regularly organizes Medical Quiz programmes in various subjects for UG and PG students
- Lecture and Debate competitions are organized for students
- Pathology prize
- Students are involved in projects and are encouraged to present papers at conferences and publish papers in scientific journals

**49. State whether the program/ institution is accredited/ graded by other agencies? If yes, give details.**

The courses being conducted at Kasturba Medical College, Manipal are recognized by Medical Council of India, New Delhi.

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

Faculty and students are involved in research on various topics related to health care. Findings and outputs from these researches of are generating new knowledge, applied and basic.

For further information on research activities please refer Annexures – 4, 4a, 5 and 5a.

## 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the institution.

### Strengths

- ❖ Human Resources
- ❖ Physical resources – Infrastructure
- ❖ Brand image
- ❖ Well established university (1953)
- ❖ International presence
- ❖ Domestic recognition
- ❖ Emergence of research culture
- ❖ Multiple courses
- ❖ Research output based incentives

### Weakness

- ❖ Environment not favourable to nurture young researchers
- ❖ Meagre seed money for research
- ❖ High end research
- ❖ Retaining talented faculty
- ❖ Faculty preference for jobs in MU

### Opportunity

- ❖ Brand image
- ❖ Collaborative research colloquium with domestic and international partners
- ❖ Mechanism to identify and retain talented faculty
- ❖ Incentivize multinational research trials
- ❖ Post graduate programs ( which do not have stringent regulatory bodies )to have a research stream in the final year.
- ❖ Affluent society

### Challenges

- ❖ Students' preference for international universities
- ❖ Private university tag which deter funds for research grant
- ❖ Interference by regulating bodies like MCI
- ❖ Young universities will similar outlook and facilities coming up
- ❖ Negative perception (intimidating, impulsive) of other domestic players on the conduct of MU faculty



## 52. Future plans of the institution.

Institution aims to

- Implement Competency Based Curriculum
- Establish Step I USMLE center
- Create Centre of excellence in research
- Collaboration in research with other universities
- Industry collaborations
- Establishment of Centre for Fertility Preservation (CFP) with an aim to offer fertility preservation through specialized “oncofertility” centres.
- Establishment of Manipal Health Literacy Unit with a vision to excel in “Health Literacy Research, policy and practice.
- Establishment of Public Health Evidence South Asia (PHESA) to meet the public health evidence needs of the South Asian region.

### 1. Name of the Department: Anatomy- KMC - Manipal

### 2. Faculty profile - adequacy and competency of faculty

There are 15 teaching faculty, meeting MCI recruitments on training and qualification for UG training and PG training. All the faculty members are post graduate with qualifications as per regulatory requirements.

#### Faculty List

Sl.No	Name	Qualification	Designation	Teaching Experience years
1	Dr. Sneha G K	MBBS, MS	Professor & Head	14
2	Dr. Antony Sylvan D'Souza	MBBS, MS	Professor & Assoc. Dean	19
3	Dr. Kumar M R Bhat	MSc, Ph.D	Addl. Prof.	21
4	Dr. Prasanna L C	MBBS, MD	Assoc. Prof.	9
5	Dr. B Prakash Babu	MSc, PhD	Assoc. Prof.	29
6	Dr. Chandni Gupta	MBBS, MD	Assoc. Prof.	8
7	Dr. Mamatha H	MBBS, MD	Assoc. Prof.	8
8	Dr. Vrinda Hari A	MBBS, MD	Asst. Prof.	8
9	Dr. Anne D'Souza	MBBS, MD	Asst. Prof.	5
10	Dr. Arvind Kumar Pandey	MSc, Ph.D	Asst. Prof.	8
11	Ms. Vanishri Nayak	MSc	Senior Grade Lecturer	8
12	Dr. Suhani SD'Silva	MSc	Senior Grade Lecturer	7
13	Mr. Huban Thomas	M.Sc	Senior Grade Lecturer	6
14	Ms. Lydia S.Quadros	M.Sc	Lecturer	7
15	Ms. Sushma R K	M.Sc	Lecturer	3
16	Dr. Abhilasha Priya	MBBS	Tutor	3
17	Dr. Supriya	MBBS	Tutor	2
18	Dr. Kantharaj	MBBS	Tutor	2
19	Dr .Aswin Das	MBBS	Tutor	2
20	Dr. Aparna Varma	MBBS	Tutor	1
21	Dr. Punnose K K	MBBS	Tutor	1

Category	Sanctioned	Filled
Teaching Staff	15	15
Tutors	07	06

### 3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 for details

### 4. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes

The department follows the curriculum as stipulated by the regulatory and the governing bodies. The board of studies in Anatomy has implemented the clinically oriented multiple choice questions and essay questions for the undergraduate students. The teachers incorporate these and highlight them during regular teaching. As all the teaching staff members have continuous training in medical education, regularly the curriculum and teaching pattern is updated.

### 5. Trends in the success and dropout rates of students during the past two years.

Course	Pass Percentage			Drop outs		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
MBBS	97	95	98	0	0	0
BDS	96	97	91	0	0	0
MD	100	50	50	0	0	0

### 6. Learning resources of the department – library, computers, laboratories etc.

The department has a library with about 600 books for reference for both the faculty and the students. There is a computer room with scanner and copier for use of the faculty. The department has an air-conditioned dissection hall which can accommodate 300 students at a time. The dissection hall has fully functioning audiovisual system with 2 LCDs. The cold storage unit is with 48 cadaver storage capacity. In addition there are specimen storage tanks where dissected specimens are stored. Articulated skeletons, X ray lobbies are made available to the students and the faculty during teaching hours.

The department has an air-conditioned histology lab with a capacity of 125. Each student is provided with a microscope and slides for study during the practical hours. There are 125 microscopes in the department. The students are exposed to the TV monitors where the histology slides are projected.

The department has a well equipped research laboratory with facilities for tissue culture and routine tissue preparation and staining. There are demonstration rooms

with all the modern facilities. The well known museum with more than 1300 specimens is a part of the department.

All the teaching staff members are provided with laptops for teaching purposes and to be up to date in knowledge and teaching. The offices of the faculty are equipped with internet connection.

#### **7. Modern teaching methods practiced and use of ICT in teaching – learning.**

The teaching methods practiced are a mix of traditional and innovative with the aim of achieving the objectives like knowledge, problem solving, psychomotor, analytical and skillful domains. The teaching involves lectures, small group teaching, case based discussions with student presentations and clinical lectures. Routine dissection classes are supplemented by live video demonstrations conducted with the use of modern audiovisual aids in the dissection hall. Clinical problem oriented learning and student presentation is practiced routinely in the department.

#### **8. Participation of teachers in academic and personal counseling of students**

All the teachers are engaged in teaching undergraduate and postgraduate students. Emphasis is given for interactive discussions and slow learners are identified for special training. As a part of continuous assessment regular table tests are conducted in the dissection hall, the schedule of those is put up on the notice boards well in advance.

Every student has a teacher guardian who looks after the academic and personal development by providing individual care and support. All teaching staffs are available to the students beyond the class hours for clarifying any of their academic doubts.

The postgraduate students carry out the dissection work and histology slide preparation routinely under the supervision of the faculty members. They are trained for their dissertation and project works in the department with the aid of the research facilities available in the department. The faculty and the postgraduate students actively participate in the regional, national and international conferences.

#### **9. Details of faculty development programmes and the teachers who have been benefited during the past two years.**

All the faculties constantly attend the faculty development programmes or workshops conducted by the medical education unit of Manipal University or other training centers. With the encouragement and financial assistance from the University; staff members regularly attend conferences, CME or symposia at the regional, national or international levels.

### 10. Participation / contribution of teachers to the academic activities including teaching consultancy and research.

Apart from teaching the faculty members are involved in research at the departmental level as well as collaborative research with other departments. The postgraduates and faculty assist the undergraduate students to carry out research. Attempts are made to encourage the students to participate in group discussions, seminars and workshops to enable them to develop personal and communication skills. The department prepares the students for the clinical education by having clinical case discussions in small groups or student presentations followed by interactive discussion. The training in the department is mainly based on cadaveric dissection, osteology demonstration, microscopic slides description and radiological anatomy. However in almost every topic the students are made to understand the anatomical basis for the clinical scenarios.

Teaching though is compartmentalized; there is horizontal integration with physiology and biochemistry and vertical integration with induction of clinical lectures on a weekly basis. The department strongly feels that the students should have time for self learning and it is encouraged greatly during dissection classes. The students are given assignments for their academic progress which are closely monitored on a day to day basis. The lacunae if any are identified and students are provided with feedback. The weekly student presentations are multidisciplinary and are assessed by panel members from the three basic sciences departments.

### 11. Collaboration with other institutions / departments at the state, national and international level and their outcome during the past two years

The department is involved in inter departmental research especially in collaboration with departments of radiology, cardiology, obstetrics and gynecology within our institution. The faculties for research or dissertation purposes closely liaise with the Manipal School of Life Sciences and the central animal house. Our postgraduates and faculty members have presented / published scientific papers in conferences / journals at different levels. We did organize CME and workshops in association with Orthopaedics, ENT and radiology departments at KMC Manipal and the department of Anatomy of KMC Mangalore. These were mutually beneficial for exchanging our views with regards to improving our teaching skills or knowledge.

### 12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

#### Ongoing:

Category	Number
Funded research projects	3
Non-funded research projects	0
PhD research projects	9
PG research projects	5
UG research projects	0

**Last 3 years (2012-2014):**

		2012	2013	2014
Completed funded research projects		1	0	1
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	1
Completed PG research projects		2	1	1
Completed UG research projects		0	0	0
Publications	International	23	44	59
	National	6	4	4
Books		0	0	0
Chapter in Books		0	0	0
Conference Presentations		46	10	28

**The detailed outline of projects is given below:**

**Completed funded research projects are:**

SI #	Title	Principal Investigator	Funding agency	Total amount received
1.	CissusQuadrangularis Linn. (Asthisamharaka) as a regulator of bone progenitor cells: Cellular and Functional basis for osteogenic regenerative medicine	Dr. Kumar M R Bhat	CCRAS	8 Lakhs
2.	Biology and molecular mechanisms of melanocyte-Keratinocyte interaction and Pigmentation – An approach towards therapeutic implications for Vitiligo	Dr. Kumar M R Bhat	DBT	16 Lakhs

**Completed PG research projects are:****Year 2012**

SI #	Title	Name of the student	Guide
1	Study on anatomy Museum in Medical Colleges in India	Dr. Venkatesh Kamath	Dr. S R Pai
2	Diaphyseal nutrient foramina in dry adult human long bones : Anatomic study	Dr. Vijayalakshmi	Dr. Sneha G K

**Year 2013**

SI #	Title	Name of the student	Guide
1	An evaluation of normal anatomical variations of hepatic artery using multitector computed tomography (MDCT)	Dr. Pallavi	Dr. A S D'Souza

**Year 2014**

SI#	Title	Name of the student	Guide
1	Evaluation of renal vascular anatomy and prevalence of vascular variants using MDCT	Dr. Anuja Sinha	Dr. Sneha G K

**On- going funded research projects are:**

SI#	Title	Principal Investigator	Funding agency	Total amount received
1	CissusQuadrangularis Lin. (Asthisrinkala) as a regulator of bone progenitor cells in osteoporosis and diabetes induced bone disorders: Molecular and functional basis for osteogenic regenerative Medicine	Dr. Kumar M.R Bhat	CSIR	15 lakhs
2	Functional, cellular and molecular evaluation of the hepatoprotective role of caesalpeniabonduc (Kantakikaranja) : An invivo and invitro study	Dr. Kumar M R Bhat	ICMR	21 Lakhs
3	Evaluation of the mechanisms involved in wound healing properties of topical application of few Indian traditional Medicinal Preparations- Histo-pathological, biochemical, cellular, molecular and biomechanical analysis.	Dr. Kumar M R Bhat	SERB/DST	17 Lakhs



**Ongoing PhD research projects are:**

Sl#	Title	Name of student	Name of the guide
1.	Histopathological, biochemical and cellular evaluation hepatoprotective function of caesalpenia bonduc (Kantakikaranjah) – an invivo and invitro study	Dr. Suhani S D'Silva	Dr. Kumar M R Bhat
2.	Evaluation of detoxification of lead in preparation of nagabhasma : multi organ approach to explore the possible anatomical, histopathological, embryological and cellular alterations	Ms. Lydia S Quadros	Dr. Kumar M R Bhat
3.	Role of maternal dietary choline and docosahexaenoic acid (DHA) in attenuating maternal stress related prenatal neurodevelopment and behavioral modifications in rat pups	Mr. Huban Thomas	Dr. Kiranmai S Rai
4.	Neuroprotective effect of mucuna prureins in bilateral carotid artery occlusion induced global cerebral ischemia in rats	Ms. Vanishri S Nayak	Dr. Sreedhar R Pai
5.	Histological cellular biochemical and biomechanical evaluation of wound healing properties of Indian traditional medicines in diabetic & nondiabetic rat models	Ms. Sushma R K	Dr. Kumar M R Bhat
6.	Histomorphological study on neurons of cingulate gyrus and substantia nigra in various developmental stages of albino mice exposed to stress	Dr. Hemalatha Bangera	Dr. B Prakash Babu
7.	Effects of Fenugreek and choline – Docosahexaenoic acid on menopause and chronic partial cerebral ischemia induced neurological changes in hippocampus – A histological, biochemical and cognitive study in rats	Mr. Anjaneyulu	Dr. Kumar M R Bhat
8.	Evaluation of the cross talk between the Melanocytes and its microenvironment in relation to pigmentation homeostasis	Ms. Divya Padma	Dr. Kumar M R Bhat
9.	Histopathological, cellular and biochemical evaluation of protective role of cissus quadrangularis on osteoporosis and diabetes induced osteopenia	Mr. Sreenivas Rao	Dr. Kumar M R Bhat

**Ongoing PG Research projects**

Sl.No	Name of the candidate	Title	Guide
1	Dr. Aswin Das	Morphological, morphometric & histological analysis of placentae in pregnancy induced hypertension gestational diabetes and post dated pregnancies	Dr. A.S.D'Souza
2	Dr. Supriya	Cyclophosphamide induced histological changes in testis and epididymis of swiss albino mice	Dr. Sneha G K
3	Dr. Kanthraj Naik	Human buccal micronucleus assay in health and illness – A cytogenetic study	Dr. Prasanna L C
4	Dr. Aparna Varma	Brainstem profile in health and neurodegenerative diseases – An MRI based study	Dr. A.S.D'Souza
5	Dr. Punnose K K	Histo morphogenesis of human thymus and spleen during prenatal development	Dr. Sneha G K

**Journal Publications – 2012 (33)****International: 28**

1. Bankar SM, Powar RM, Patil SA, Kalthur SG. Prevalence of non-albican candida infection in Maharashtrian women with leucorrhoea. Ann Trop Med Public Health 2012;5:119-23
2. Sharada R, Sneha K, Gupta C, Pai SR, Rairam GB.. Non-metrical study of the pattern of talar articular facets in south Indian dry calcanei. Surg Radiol Anat 28 January 2012
3. Yagain, V. K.; Pai, S. R.; Kalthur, S. G.; Chethan, P. & Hemalatha, I. Study Of Cephalic Index In Indian Students. Int. J. Morphol., 30(1):125-129, 2012.
4. Gupta C, Ray B, Dsouza AS, Nair N, Pai SR, Manju M . A morphological study of variations in the branching pattern and termination of the radial artery., Singapore Med J. 2012 Mar;53(3):208-11.
5. Gupta, C., Ray, B., D'Souza, AS. and Murlimanju, BV. Accessory nerve: topographic study of its spinal root in human fetuses, J. Morphol. Sci., 2012, vol. 29, no. 2, p. 82-86.
6. R. Sharada, Kalthur Sneha, Chandni Gupta, Shakuntala R. Pai & G. B. Rairam. Non-metrical study of the pattern of talar articular facets in south Indian dry calcanei , Surg Radiol Anat 2012 Aug; 34(6):487-91.

7. Kumar MR Bhat, Vinay Kulakarni, Chandni GUPTA. Additional muscle slips from the bicipital aponeurosis and a long communicating branch between the musculocutaneous and the median nerves. *International Journal of Anatomical Variations* (2012) 5: 20–22
8. Chandni Gupta, Vikram Palimar, Murlimanju BV , Vaishali R Shetti. A Morphological Study of Variations in the Origin and Course of Radial Artery, *RJPBCS Volume 3 Issue 2 April – June 2012, Page No. 333- 340.*
9. Vikram Palimar, Vidhi, Chandni Gupta, Fatal Deliberate Self-harm in Adolescents- A Manipal Perspective,, *RJPBCS Volume 3 Issue 2 April – June 2012 Page No. 401-406.*
10. Radhakrishnan P, Chandni Gupta, Sandeep Kumar, Antony Sylvan D'souza. A Morphometric Analysis of the Foramen Magnum and Variations in its Shape: A Computerized Tomographic Study. *Novel Science International Journal of Medical Science* (2012), 1(9-10): 281-285.
11. B.V. Murlimanju, N. Nair, B. Kumar, A. Krishnamurthy, C. Gupta, P. Chethan. Clinically oriented morphometric study of medial and lateral menisci of the knee joint in adult cadavers. *Clin Ter.* 2012;163(2):105-8
12. Biswabina R, D' Souza AS, Kumar V, Pugazhandhi B, D'Souza MR, Nayak D, Sushma RK, Shetty P, Singh H, Krishna L, Kumar MR Bhat, Anuradha CKR, Chakraborti S, Kumar N , Saxena A (2012). Ovarian Development in Wister rat Treated Prenatally with Single Dose of Diisobutyl Phthalate. *Bratislava Medical Journal.* No. 113(10):577-582.
13. Mamatha H, Sandhya, Sushma R.K, Suhani.S, Naveen Kumar. Significance of various sacral measurements in the determination of sex in south Indian population. *International Journal Cur Res Rev*, Oct, 2012 / Vol 04 / Issue 20
14. Antony Sylvan D'Souza, Vijayalakhmi, Hemalatha, Pugazhandhi, H. Mamatha. Anatomical variations in the branches of coeliac trunk. *Journal of Clinical and Diagnostic Research.* 2012 May (Suppl-1), Vol-6(3):333-335.
15. Suhani S, Narga Nair, Naveen K , Mamatha H. Multiple Tendons for Abductor Pollicis Longus in the First Dorsal Compartment and Variation in their Insertion Pattern. *Anatomical and Clinical Relevance Research Journal of Pharmaceutical, Biological and Chemical Sciences.* October –December 2012 *RJPBCS Volume 3 Issue 4 Page No. 755-763*
16. Antony Sylvan D'Souza, H. Mamatha, Nayak Jyothi. Morphometric analysis of hard palate in south Indian skulls. *Biomedical Research* 2012; 23 (2): 173-175.
17. Mamatha H, Sushma RK, Arunashree and D'Souza AS. Morphological study of the formative pattern of the circle of Willis. *Elixir Appl. Biology* 53 (2012) 12099-12102
18. Vinodhini P, Vivek Pandey, Mamatha .H. Congenital Incomplete Discoid Lateral Meniscus of the Knee Joint - A MRI Case Report *Research and Reviews: Journal of Medical and Health Sciences, RRJMHS Vol 1 | Issue1,Oct–Dec, 2012*

19. Mamatha H, Jessica, Antony sylvan Dsouza, Suhani S. A cadaveric study on the variations in the origin, course and branching pattern of the profunda femoris artery. *Int J Cur Res Rev*, Oct 2012 / Vol 04 (19) ,Page 137-145.
20. Vimal kumar , suresh sukumar, Mamatha H. Computed Tomographic Studies On Sphenoid Sinus Variants. *Int J Pharm Bio Science* 2012 July; 3(3): (B) 482 – 486
21. Hosapatna Mamatha, Antony Sylvan D'Souza, Pallavi, Suhani Sumalatha. Human cadaveric study of the morphology of the basilar artery. *Singapore Med J* 2012; 53(11): 760–763 .
22. Mamatha Hosapatna, Balakrishnan, Suhani Sumalatha, Antony Sylvan D'souza Variations in the origin of long head of biceps -A Cadaveric Study Vinodhini Periyasamy, *Pharm Biomed Sci.* 2012, December; 25 (25); 194-198.
23. B. Prakash Babu, Ramachandra Bhat K. Pseudodiphallia with duplication of urethra: A case report. *Argentine Journal of clinical anatomy: Vol.4 (1), 2012:14-19.*
24. B. Prakash Babu Longitudinal stress on the effect of restraint stress during preweaning period on postnatal growth of body and constituent parts in Albino mice. *International journal of Pharma Medicine and Biological Sciences, Vol.1, N0 2, Oct. 2012, PP:80-90*
25. Mamatha H, Sandhya, Sushma R.K, Suhani.S, Naveen Kumar Significance of various sacral measurements in the determination of sex in south Indian population. *International Journal Cur Res Rev*, 2012; 4(20): 6.
26. Hosapatna Mamatha, Antony Sylvan D'Souza, Pallavi, Suhani Sumalatha. Human cadaveric study of the morphology of the basilar artery. *Singapore Med J*, 2012; 53(11): 760–763 .
27. Sushma RK, Srinivasa Rao Sirasanagandla, Kumar MR Bhat. Presence of Additional Head of Pronator Teres Muscle and Associated Neurovascular Variations. *Journal of Surgical Academia* 2012;2(2):41-44.
28. Morphometry and Magnetic resonance imaging of anterior cruciate ligament and measurements of secondary signs of anterior cruciate ligament tear. A. Saxena, B. Ray, K.V. Rajagopal, A. S. D' Souza, S. Pyruith. *Bratislavia Medical Journal*; Vol 113; No 9, p. 539 - 543; 2012

#### National: 5

1. Palimar Vikram, Gupta Chandni, Neena Priyadarshini A V. Prediction of Stature from Foot Length. *Indian Journal of Forensic Medicine and Pathology. Volume 5 Number 2, April - June 2012, p 67-71.*
2. B. Prakash Babu Termination of facial vein into external jugular vein- a case report. *Anatomica Karnataka (Official Journal of Karnataka chapter of Anatomists) Vol.6, No:1, April 2012:49-52*
3. Mamatha H., Antony Sylvan D'Souza , Vinodhini P., Biswabina Ray , Suhani, Pallavi. Cadaveric Study about the Anomalous Origin of Testicular Arteries Arising from the Accessory Renal Arteries. *Indian J Surg*, 2012.

4. Rajangam S, Kulkarni RN, Quadros L, Sreenivasulu S; “Orbital dimensions”. Indian Journal of Anatomy 2012, 1(1): 5-10
5. B. Prakash Babu Higher division of abdominal aorta: A case report. Indian Journal of Research and Reports in Medical Sciences, Vol 2 (2). 2012, pp. 21-23.

### Conference Presentations

#### INTERNATIONAL - 8

- 1 Dr. Antony Sylvan D’Souza. Paper titled “Double superior vena cava” was presented at the 2<sup>nd</sup> International Anatomical Science and Cell Biology Conference held at Chiang Mai, Thailand from 6<sup>th</sup> to 8<sup>th</sup> December 2012
- 2 Sushma RK, Radhakrishnan, Divya Shenoy, A S D’ Souza, Kumar MR Bhat (2012): Paper titled “Multiple Anatomical Variations in the Arm - A Case Report”. was presented at the 2<sup>nd</sup> International Anatomical Sciences and Cell biology conference, Chiang Mai, Thailand. from 6<sup>th</sup> to 8<sup>th</sup> December 2012.
- 3 Srinivasa Rao Sirasanagandla, K Sreedhara Ranganath Pai, Kumar MR Bhat (2012): Paper titled “Beneficial effect of Cissusquadrangularis on osteopenia associated with type 1 diabetes mellitus”, was presented at the 2<sup>nd</sup> International Anatomical Sciences and Cell biology conference, Chiang Mai, Thailand. from 6<sup>th</sup> to 8<sup>th</sup> December 2012.
- 4 Kemparaj H, Prakash, Kumar MR Bhat: (2012): Promoting holistic health through effective sports management. In Pre-Olympic Congress on Sports, Science and Computer Science in Sports (IACSS 2012), Liverpool, United Kingdom.
- 5 Dr. H Mamatha. Paper entitled “Comparative Histochemical Study of Fetal and Adult Human Gastric Mucosa and Its Significance” in 4<sup>th</sup> Asia Pacific gastroesophageal cancer congress in Singapore from 4<sup>th</sup> -6<sup>th</sup> July 2012.
- 6 Mr. Arvind Kumar Pandey. Paper titled “comparison of anatomical study of superficial fascia and subcutaneous fat deposits of the abdomen between fetus and adult” was presented at the 2<sup>nd</sup> International Anatomical Science and Cell Biology Conference held at Chiang Mai, Thailand from 6<sup>th</sup> to 8<sup>th</sup> December 2012.
- 7 Mr. HubanThomas. Paper titled “A rare variation in the innervations of gluteus maximus muscle – A case report” was presented at the 2<sup>nd</sup> International Anatomical Science and Cell Biology Conference held at Chiang Mai, Thailand from 6<sup>th</sup> to 8<sup>th</sup> December 2012.
- 8 Dr. Anne D’Souza, presented a paper titled “DNA damage in people exposed to formaldehyde” at the 2<sup>nd</sup> International Anatomical Science and Cell Biology Conference held at Chiang Mai, Thailand from 6<sup>th</sup> to 8<sup>th</sup> December 2012.

## NATIONAL – 38

- 1 Dr. H Mamatha. Paper entitled “Thoraco-abdominal Anomalies in a Dicephalic Parapagus Twin” was presented at the 11th APSA, Osmania Medical College, Hyderabad from 14<sup>th</sup> - 15<sup>th</sup> July 2012.
- 2 Ms. Lydia S Quadros. Paper titled “Variations in cords and branches of brachial plexus: a case report” at 33<sup>rd</sup> annual conference of Indian Association of Biomedical Scientists, International Symposium on “Recent trends and advances in Biomedical Research-An integrated approach”, held at Nitte University, Mangalore, Karnataka, from November 1-3, 2012.
- 3 Ms. Lydia S Quadros. Paper titled “Variations of facial artery on face” at 11<sup>th</sup> APSA Meet- Regional Chapter ASI, held at Osmania Medical College, Hyderabad, from July 14-15, 2012.
- 4 Ms. Sushma R K. Paper titled “Multiple variations in the nerves of the gluteal region” (Poster), in the 11<sup>th</sup> APSA Meet-Regional chapter of ASI on 14<sup>th</sup> and 15<sup>th</sup> July 2012, at Osmania Medical College, Hyderabad, Andhra Pradesh.
- 5 Ms. Vanishri S Nayak. Paper titled “Neuroprotective effect of mucuna pruriens against global cerebral ischemia/reperfusion-induced oxidative stress in rats” (Poster) was presented at the Indo-US symposium on Disorders of the developing brain held at Manipal Life Sciences Centre, Manipal on 27<sup>th</sup> & 28<sup>th</sup> October, 2012.
- 6 Ms. Vanishri S Nayak. Paper titled “Anatomical variations in the cutaneous innervations on the dorsum of the foot”, was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India held at SCB Medical College, Cuttack, Odisha from 27<sup>th</sup> to 29<sup>th</sup> December 2012.
- 7 Mr. Huban Thomas. Paper titled “ Anomalous communication between right internal iliac vein and left common iliac vein” was presented at the 35<sup>th</sup> Annual Conference of Association of Anatomists – Tamilnadu on 13<sup>th</sup> & 14<sup>th</sup> October 2012.
- 8 Ms. Sushma R K. Paper Titled “An unusual axillary arch and its associated clinical implications - A case report” (Poster), was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 9 Ms. Sushma R K. Paper titled “Multiple variations in the nerves of the gluteal region”(Poster), was presented at the 11<sup>th</sup> APSA Meet-Regional chapter ASI on 14<sup>th</sup> and 15<sup>th</sup> July 2012 in Osmania Medical College, Hyderabad, Andhra Pradesh.
- 10 Dr. Prakash Babu. Paper titled “Unusual communication between lateral cutaneous nerve of the forearm and median nerve – A case report” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 11 Dr. Prakash Babu. Paper titled “Pseudodiphallia with duplication of urethra : A case report” was presented at the II National Conference on Basic Medical Sciences, held at Vinayaka Mission’s Medical College, Salem, Tamilnadu on 13<sup>th</sup> & 14<sup>th</sup> April 2012.



- 12 Dr. Prakash Babu. Paper titled “Additional clavicular head of sternocleidomastoid – A case report” was presented at the Annual Conference of Karnataka Chapter of Anatomists, held at B M Patil Medical College, Bijapur from 7<sup>th</sup> to 9<sup>th</sup> September 2012.
- 13 Dr. B Prakash Babu. Paper titled “ Absent inferior root of ansa cervical – A case report” was presented at the 35<sup>th</sup> Annual conference of Association of Anatomists – Tamilnadu held at Saveetha Medical College, Chennai on 12<sup>th</sup> & 14<sup>th</sup> October 2012.
- 14 Lydia S Quadros, Herman S D’souza<sup>1</sup>, AS. D’souza, *Kumar MR Bhat\** (2012). Neurotoxicity as a Result of Improper Processing of Lead in Traditional Medicine.was presented at the Indo-US symposium on Disorders of the developing brain held at Manipal Life Sciences Centre, Manipal on 27<sup>th</sup> & 28<sup>th</sup> October, 2012.
- 15 Prasanna LC, Antony Sylvan D’Souza, *Kumar MR Bhat\**(2012). Defective Interaction between Neural Crest Cells and Neuromeres - A Rare Case of Craniofacial Malformation. was presented at the Indo-US symposium on Disorders of the developing brain held at Manipal Life Sciences Centre, Manipal on 27<sup>th</sup> & 28<sup>th</sup> October, 2012.
- 16 Divya Padma, Kumar MR Bhat\*, Satyamorthy K (2012). Gap Junctional Communication between Human Melanocyte and Keratinocyte Influences Pigmentation Process in vitro. In 5<sup>th</sup> Asian society of pigment cell research conference, New Delhi, India.
- 17 Dr. Vrinda Hari A. Paper titled “A case report of various anomalies of the Thorax” was presented at the 11th Regional Chapter of Anatomists, APSA, held at Osmania Medical College, Hyderabad from 14<sup>th</sup> - 15<sup>th</sup> July 2012.
- 18 Dr. Vrinda Hari A. Paper titled “Renal artery variations – A cadaveric study with clinical relevance” was presented at the 33<sup>rd</sup> Annual Conference of Indian Association of Biomedical Scientists, held at Nitte University, Mangalore from 1<sup>st</sup> to 3<sup>rd</sup> November 2012.
- 19 Dr. Vrinda Hari A. Paper titled “Tetra-amelia Syndrome – A case Report” was presented at the National Symposium and workshop on Best practices in Clinical Embryology, held at KMC, Manipal on 1<sup>st</sup> & 2<sup>nd</sup> December 2012.
- 20 Dr. Vrinda Hari A. Paper Titled “Variations in the roots of the median nerve” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012

#### **Papers presented at the conference by Post graduates – 18**

- 1 Dr. Vinodhini P. Paper titled “MRI Imaging - Estimation of brainstem volume in normal and neurodegenerative diseases” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012



- 2 Dr. Vinodhini P. Paper titled “Morphometric dimensions of foetal larynx”. (Poster) was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 3 Dr. Vinodhini P. Paper titled “Anatomical variations of testicular artery in South Indian population” was presented at the 11th APSA, held at Osmania Medical College, Hyderabad from 14<sup>th</sup> - 15<sup>th</sup> July 2012.
- 4 Dr. Sachin K S. Paper titled “An evaluation of branching pattern of the coronary arteries.” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 5 Dr. Rohini Alva. Paper titled “Multiple variants of the superficial volar arch – A case study” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 6 Ms. Arathy Babu. Paper titled “Study of Facial artery on face” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 7 Ms. Chaitra S. Paper titled “Anatomy of superficial branches of femoral artery for graft procedures” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 8 Mr Mahesh Dhoot. Paper titled “Variations in the arterial supply of suprarenal gland” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 9 Ms. Sriprajna. Paper titled “Variations in the formation, course and main tributaries of great saphenous vein” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 10 Ms. Anusha Rani. Paper titled “Bilateral variation in the formation of brachial plexus” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 11 Ms. Chethana Y K. Paper titled “Rare variation of left gastric artery and common hepatic artery – A case report” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 12 Mr. Jacques Britto N. Paper titled “A study on the variable occipital sulci in the human cadavers” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012

- 13 Divya Shenoy. Paper titled “Arterial variations in the arm – a case report”, was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 14 Radhakrishna P. Paper titled “Absence of Musculocutaneous nerve – A rare Case report. was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 15 Jessica Shrestha. Paper titled “Evaluation of possible metal toxicity of an ayurvedic preparation: Histopathological, biochemical and behavioral analysis” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 16 Salma M, Paper titled “Evaluation of Wound healing Property of Topical Application of Glycyrrhizaglabra (Yastimadhu) -A Histopathological Study” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 17 Praveena R. Paper titled “Anatomical variations of pulmonary vein opening into the left atrium” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012
- 18 Dr. Anuja Sinha. Paper titled “Variations of the sciatic nerve and its relation with the piriformis muscle” was presented at the 60<sup>th</sup> National Conference of Anatomical Society of India, held at SCB Medical College, Cuttack, ODISHA from 26<sup>th</sup> to 29<sup>th</sup> December 2012

### **Publications: 2013 (Total 48)**

#### **International: 44**

1. Anne D’Souza, Vrinda Hari Ankolekar, Aswin Das, Sushma Rama Kotian, Mamatha Hosapatna, Antony Sylvan D’Souza. Surgical relevance of sphenoid sinus and its ostium: An anatomical study. J Clin Exp Res 2013;1:43-46
2. Anne D Souza, Vrinda Hari Ankolekar, Mamatha Hosapatna, Antony Sylvan Dsouza. Dimensional changes of trachea in second and third trimester fetuses –an anatomical study. Int J Cur Res Rev, 2013 ; 05 (19):126-131.
3. Lakshmi T. Anantharaman, Jagdish Chaturvedi, Anne DSouza, Nachiket Shankar, Roopa Ravindranath, Ravi C. Near complete tracheal rings in an adult male cadaver associated with variation in V2 and V3 segments of vertebral artery. Nair. Eur J Anat 2013; 17 (1): 53-58
4. Chandni Gupta, Antony Sylvan D’Souza, Biswabswa bina Ray. Anatomical Variations in the Emergence of the Cutaneous Nerves from the Nerve Point in the Neck and Identification of the Landmarks to Locate the Nerve Point with Its Clinical Implications: A Cadaveric Study on South Indian Human Foetuses. Journal of Clinical and Diagnostic Research. 2013, 7(3): 413-417.

5. Chandni Gupta, Lakshmi kiruba. N, Antony Sylvan Dsouza, P. Radhakrishnan. A morphological study to note the variable patterns of cutaneous innervation on the dorsum of foot in south Indian human foetuses and its clinical implications. *Adv Biomed Res* 2013, 2:15.
6. Gupta, C., Shetti, VR. And Manju, BVM. Dimensions of the human adult mitral valve in the embalmed cadaver. *J. Morphol. Sci.*, 2013, 30(1): 6-10.
7. Gupta, C., Radhakrishnan, P., Palimar, V., D'souza, AS. and Kiruba NL. A quantitative analysis of atlas vertebrae and its abnormalities. *J. Morphol. Sci.*, 2013, 30(2):77-81.
8. Srinivasa Rao S, Kumar MR Bhat. Preventive role of *Embllica officinalis* and *Cissus quadrangularis* on bone loss in osteoporosis. *International journal of pharmacy and pharmaceutical sciences* 2013; 4(5): 465-470.
9. Mamatha Hosapatna, Vrinda Hari Ankolekar, Anne D Souza, Antony Sylvan D Souza..A Study on Fetal Palatal Growth with Respect to Different Anatomical Landmarks and Its Clinical Relevance: A Cadaveric Study. *International Journal of Health Science Research*. 2013; 3(11):51-55
10. Mamatha H., Vinodhini P., Antony Sylvan D'souza, Suhani S., Prasanna L.C. Morphometric Dimensions Of Fetal Larynx. *Int J Cur Res Rev*, 2013; 05 (12):112-118.
11. Mamatha Hosapatna, Pallavi, Lakshmeesha Rao, Antony Sylvan Dsouza. Presence of an Accessory Flexor Muscle in the Posterior Compartment of the Leg and Its Possible Clinical Complications - A Case Report. *International Journal Health Science and research*. 2013;3(12):185-188.
12. Mamatha Hosapatna, Radhakrishnan Periyasamy, Antony Sylvan D'Souza, Sushma Rama Kotian. Gross anatomical observations of the palmar interossei muscles in humans: A cadaveric study. *Journal of Clinical & Experimental Research* 2013;1(3):53-57.
13. Vrinda Hari Ankolekar, Mamatha Hosapatna, Anne D Souza, Sushma R.K , Antony sylvan D Souza.. Morphometric study of pharyngeal orifice of auditory tube and its clinical relevance The experiment, *International journal of science and technology, The Experiment*, 2013 Vol. 16(3), 1134-1137.
14. Naveen K, Sareesh N, Satheesha BN , Murlimanju BV, Suhani S, Mamatha H, Sampath PK. Appendicitis and Appendectomy: A Retrospective Survey in South Indian Population. *Journal of Surgical Academia* 2013; 3(2):10-13.
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29. S Suhani, H Mamatha, K Naveen, P Jyothsna, PA Aithal. Bilateral atypical foramina ovalia formation due to the presence of pterygoalar bar: a rare osseous variation. OA Case Reports 2013 24;2(16):153.
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44. AS D' Souza, Biswabina Ray, Alok Saxena, Dayanand Nayak, Sushma RK, Prasad Shetty, Pugazhendi B. Morphology of the superior gluteal nerve: a study in adult human cadavers. *Bratislava Medical Journal* 2013;114(7):409-412.



**National: 4**

1. Kumar P, Pandey AK, Kumar B, Aithal KS, Dsouza AS. Gross anatomy of superficial fascia and future localised fat deposit areas of the abdomen in foetus. Indian J Plast Surg 2013; 46:529-32.
2. Mamatha H, B. Hemalatha P. Vinodini, Antony Sylvan D. Souza S. Suhani. Anatomical Study on the Variations in the Branching Pattern of Internal Iliac Artery Indian Journal of Surgery 2013.
3. Prasanna LC, Ramesh CM. Double headed Conjoined Twin – Autopsy findings. Indian J Med Res 2013; 137(1):219.
4. Kalthur SG, Siddaraju KS, D'Souza AS. Arched abdominal aorta and altered course of right ovarian vessels in a female cadaver: Clinical significance and embryological explanation. Med J DY Patil Univ 2013;6:331-3.

**Conference Presentations – 10****International – 1**

1. Dr. Suhani. “Variation in the Origin Course and Branching Pattern of the Profunda Femoris Artery: A Cadaveric Study” was presented at International Conference in Medicine and Public Health 2013 (ICMPH2013), held at Faculty of Medicine, Siriraj Hospital, Mahidol University, Thailand from 24 to 28<sup>th</sup> June 2013.

**National – 9**

1. Chethana YK, Sushma RK, Kumar MR Bhat. “Abnormally rotated undescended testis in the inguinal canal: A case report” was presented at the 15<sup>th</sup> Karnataka Chapter of Anatomists (KCA) state conference held at Sathagiri Institute of Medical Sciences & Research Centre, Bangalore on 14<sup>th</sup> & 15<sup>th</sup> September 2013.
2. Rohini Alva, Sushma R.K., A S D Souza, Kumar MR Bhat. “Variant Insertion of the Peroneus Quartus- A Case Report was presented at the 15<sup>th</sup> Karnataka Chapter of Anatomists (KCA) state conference held at Sathagiri Institute of Medical Sciences & Research Centre, Bangalore on 14<sup>th</sup> & 15<sup>th</sup> September 2013.
3. Mittal Sachendra Kumar, Sushma R.K., A S D'Souza, Kumar M.R. Bhat. “Cleidotrapezius: An unusual variant slip from the Sternocleidomastoid- A Case Report” was presented at the 61<sup>st</sup> NATCON, National Conference of Anatomical Society of India held at PGIMER, Chandigarh from 22<sup>nd</sup> to 25<sup>th</sup> November 2013.
4. Nandini Bhat, Mamatha H, Sushma R K, D'Souza A S. “Integrated Teaching : Boon or Bane ?! was presented at the 61<sup>st</sup> NATCON, National Conference of Anatomical Society of India held at PGIMER, Chandigarh from 22<sup>nd</sup> to 25<sup>th</sup> November 2013.
5. Dr. Prakash Babu. Paper titled “ Accessory renal arteries: a case report” was presented at the Annual Conference of Karnataka Chapter of Anatomists, held at

- Sapthagiri Institute of Medical Sciences, Bangalore from 14<sup>th</sup> and 15<sup>th</sup> September 2013.
6. Babu B Prakash<sup>1</sup>, Bangera Hemalatha<sup>2</sup>, D'Souza Antony Sylvan<sup>3</sup>, SD Manjula<sup>4</sup>, Rao K Mohandas<sup>5</sup>, J Raghu<sup>6</sup>. "Restraint stress during adult period decreases the dendritic arborization of cingulate cortex neurons in albino mice" held at 36<sup>th</sup> Annual Conference of Association of Anatomists held of SRM Medical College, Chennai from October 5<sup>th</sup> and 6<sup>th</sup> 2013
  7. Arvind Kumar Pandey. Paper titled "Study of certain physicochemical properties of subcutaneous fat along with anatomy of superficial fascia of abdomen" presented at the 15<sup>th</sup> Karnataka chapter of anatomists' conference, Sapthagiri Institute of Medical Sciences & Research Centre, Bangalore, 14<sup>th</sup> & 15<sup>th</sup> September 2013.
  8. Dr. Chandni Gupta. Paper titled "A Morphometric Study Of Measurements Of Heart In Adults And Its Relation With Age And Height Of The Individual- A Post-Mortem Study" at the 34<sup>th</sup> Annual National Conference of Indian Academy of Forensic Medicine held on 1<sup>st</sup> to 3<sup>rd</sup> February 2013 at Kasturba Medical College, Manipal.
  9. Dr. Chandni Gupta. Paper titled "A Morphometric study of arch of great saphenous vein and its clinical significance" was presented at the 15<sup>th</sup> State conference of Karnataka Chapter of Anatomists held at Sapthagiri Institute of Medical Sciences, Bangalore held on 13<sup>th</sup> to 15<sup>th</sup> September 2013.

### **Publications: 2014 (Total 63)**

#### **International: 59**

1. Hemalatha Bangera, Anne D Souza, Mamatha Hosapatna, Antony sylvan D Souza and Vrinda Hari Ankolekar. Developmental morphology of human fetal trachea. Archives of Applied Science Research, 2014, 6 (4):256-262
2. Anne D Souza, Vrinda Hari Ankolekar, Sushma Rama Kotian, Antony Sylvan D Souza, Mamatha Hosapatna. Effectiveness of Audio-Visual Aids in Medical Education: A Students' Perspective. Int J Health Sci Res. 2014;4(11):228-233
3. Anne D Souza, Rema Devi. Cytokinesis blocked micronucleus assay of peripheral lymphocytes revealing the genotoxic effect of formaldehyde exposure. Clinical Anatomy 2014;27:308-312
4. Anne D Souza, Rema Devi. Micronucleus assay on buccal cells: an indicator of DNA damage due to formaldehyde exposure in anatomy dissection labs. Int J Res Med Sci. 2014 Feb;2(1):71-74
5. Anne D Souza, Vrinda Hari Ankolekar, Kumar M. R. Bhat, Sushma R. K, Antony Sylvan D Souza. Anatomical Study of the Middle Meatus with Emphasis to the Maxillary Ostium and Their Clinical Relevance. Int J Health Sci Res. 2014;4(2):35-39



6. Anne D Souza, Mamatha Hosapatna, Vrinda Hari Ankolekar, Antony Sylvan D Souza. The Angle of the First Rib and Its Implication in Forensic Anthropology: A Morphometric Study. RRJMHS | Volume 3 | Issue 1 | January - March, 2014 p 43-6
7. Quadros LS, Pandey AK, D'Souza AS. Anatomical Variations in the Arteries and Nerves of the Right Carotid Triangle. Online J Health Allied Scs. 2014; 13(2):1-3
8. Gupta C, Kumari P, Pandey AK, D'Souza AS. Morphometrical Study of Pedicles in Lumbar Vertebrae and Its Clinical Significance. Journal of Surgical Academia 2014; 4(1):37-40
9. Kalthur SG, Sumalatha S, Nair N, Pandey AK, Sequeria S, Shobha L. Anatomic study of infrapatellar branch of saphenous nerve in male cadavers. Irish Journal of Medical Science 2014; DOI 10.1007/s11845-014-1087-2
10. Lakshmi N. Kiruba, Chandni Gupta, Sandeep Kumar<sup>1</sup>, Antony S. D'Souza. A study of morphometric evaluation of the maxillary sinuses in normal subjects using computer tomography images. Archives of Medicine and Health Sciences , 2014 ;2(1): 12-15.
11. Anuj Jain ,Chandni Gupta and B. V. Murlimanju. A Watch Backward In Embryology. Review Of Research. 2014; 3(9): 1-5.
12. Anuj Jain, Chandni Gupta and B. V. Murlimanju. Ulcerative Colitis – A Review. Golden Research Thoughts. 2014; 3(12): 1-13.
13. Anuj Jain and Chandni Gupta. Self-Medication In Medical Students. Indian Streams Research Journal. 2014; 4(5): 1-6.
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15. Sneha Guruprasad Kalthur, Supriya Padmashali, Chandni Gupta, Antony S Dsouza. Anatomic study of the occipital condyle and its surgical implications in transcondylar approach. J Craniovert Jun Spine 2014;5:71-7
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17. Chandni Gupta, Abhilasha Priya, Sneha Guruprasad Kalthur, Antony Sylvan D'Souza. A morphometric study of acromion process of scapula and its clinical significance.2014;1(3):164-169.
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21. Srinivasa Rao S, K S R Pai, Kumar MR Bhat \*(2014): Effect of *Cissus quadrangularis* Linn on skeletal growth in the neonates of diabetic rats. October 3(5): 824-829. International Journal of Basic and Clinical Pharmacology.
22. Suhani Sumalatha D'silva, KSR Pai, Nitesh Kumar, Kumar MR Bhat\* (2014). Hepatoprotective role of *Caesalpinia bonduc*: a histopathological and biochemical study. August. November. Online publication in JCDR.
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45. Vrinda Hari Ankolekar, Mamatha Hosapatna, Anne D Souza, Antony Sylvan D Souza Identification of cephalic vein in the deltopectoral groove and its surgical relevance. *International Archives of Integrated Medicine, Vol.1, Issue. 3, November, 2014.*

46. Vrinda Hari Ankolekar<sup>1</sup>, Aswin Das<sup>2</sup>, Anne D Souza<sup>1</sup>, Antony Sylvan D Souza<sup>3</sup>, Mamatha Hosapatna<sup>4</sup> Tetracuspid Right Atrioventricular Valve: A Case Report International Journal of Health Sciences and Research Vol.4; Issue: 11; November 2014:253-255
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51. Lydia S. Quadros, Pangsatabam Anjali Roy, Antony Sylvan D'souza. "Inferior alveolar nerve with multiple roots". British Biomedical Bulletin; 2014;2(1):26-30.
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54. Harpreet S. Gulati, Biswabina Ray, Sushma, Anthony S. D'Souza, Naveen Kumar. Morphometry of the deep muscles of the extensor compartment of the forearm and related variations. Eur. J. Anat. 2014;18(3):173-174 .
55. Sushma Rama Kotian, Vanishri Nayak, Antony Sylvan D Souza, Anne D Souza. Morphology of human larynx: An anatomical study. Cukurova Medical Journal 2014; 39(4):779-783.
56. Sushma RK, Rohini Alva, Antony Sylvan D' Souza, Kumar MR Bhat. Peroneus Quartus with Variant Insertions: A Case Report. Cukurova Medical Journal 2014; 39(4):889-893.
57. Sushma RK, Mahesh Dhoot, Hemant Ashish Harode, Antony Sylvan D'Souza, Mamatha H. Anatomical Variations in the Arterial Supply of the Suprarenal Gland. International Journal of Health Sciences and Research 2014;4(5):31-36.
58. Sushma RK, Chethana YK, Kumar MR Bhat. Abnormally Rotated Undescended Testis in an Adult. Cukurova Medical Journal 2014;39(3):662-668.
59. Vanitha, Antony Sylvan D'Souza, Vanishri Nayak. Variation in the innervation to the gluteus maximus muscle: A case report. International journal of medical research and health sciences. 2014;3(3):721-722.

**National: 4**

1. Huban Thomas R, Prakashbabu B. & Radhakrishnan P. Anomalous communication between right internal Iliac vein and left common iliac vein - a case report; Nitte University Journal of Health Science; Vol. 4, No.3, September 2014, ISSN 2249-7110.
2. Aswin Das, Vrinda Hari Ankolekar, Mamatha H, Anne D Souza, Antony Sylvan D Souza. Persistent truncus arteriosus with a single umbilical artery: A case report. Indian Journal of Basic and Applied Medical Research; March 2014: Vol.-3, Issue-2, P.325-327
3. Vrinda Hari Ankolekar , Antony Sylvan D'Souza , Lydia S. Quadros ,Mamatha H., Suhani S, Hemalatha S. Bangera & Radhakrishnan. Various anomalies of the thorax. NUJHS 2014; 4(1).
4. Mamatha Hosapatna ,Vrinda Hari Ankolekar, Anne D Souza, Suhani Sumalatha Antony Sylvan D Souza. Anomalous origin of vertebral artery from arch of aorta: A case report. Indian Journal of Basic and Applied Medical Research; September 2014;3(4):233-236

**Conference Presentation – 2014. (28)**

1. Dr. Vrinda Hari - Paper titled “Surgical anatomy of nasopharynx with emphasis to pharyngeal orifice of auditory tube” was presented at 4th Emirates Rhinology and Otology Conference, held at Intercontinental Festival City, Dubai, UAE on 15-17 January 2014
2. Dr. Vrinda Hari. Paper titled “Posterior Belly of Digastric muscle: An important landmark for various head and neck surgeries” was presented at International conference on Asian studies 2014, Columbo, Srilanka on 14th-15th July 2014
3. B.Prakash Babu, Higher division of Popliteal artery: A case report, at 1<sup>st</sup> Annual International Conference on CMMA 2014 (Microscopic and Macroscopic Anatomy) held at Singapore on dates 21<sup>st</sup> and 22<sup>nd</sup> July 2014
4. Dr. Prakash Babu. Paper titled “Communication between musculocutaneous and median nerves: A case report” was presented at the 16<sup>th</sup> Annual Conference of Karnataka Chapter of Anatomists, held at SDM College of Medical Sciences and Hospital, Dharwad, Karnataka from 22<sup>nd</sup>-24<sup>th</sup> August 2014.
5. Dr. Anne D'Souza. Paper titled ‘Effectiveness of Audio-visual Aids in Medical Education: A Students’ Perspective’ presented at 35<sup>th</sup> Intellectbase Academic conference, 8<sup>th</sup> to 10<sup>th</sup> July 2014, Kuala Lumpur, Malaysia.
6. Dr. Anne D'Souza. Paper titled ‘Fetal palatal growth with respect to different anatomical landmarks and its clinical relevance: A cadaveric study’ presented at 4<sup>th</sup> emirates Rhinology and Otology Conference, 15<sup>th</sup> to 17<sup>th</sup> January 2014. Dubai, UAE



7. Dr. Antony Sylvan D'Souza. Attended and presented a paper entitled 'Integrated teaching in medical school: a boon or a bane??' at the 'Intellectbase International Consortium Academic Conference' held from 8<sup>th</sup> to 10<sup>th</sup> July 2014, at Kuala Lumpur Malaysia.
8. Dr. Arvind Kumar Pandey. Paper titled "Superficial Fascia of the Abdomen and its Implications in Obesity: A Histological study" was presented at Intellectbase international consortium Academic conference, Kuala Lumpur, Malaysia, 8-10 July, 2014.
9. Dr. Chandni Gupta. Attended the ""22 Annual State Conference of Karnataka Medico-Legal Society (22 KAMLSCON-2014) held at K.L.E. University's J.N.Medical College, Belgaum, Karnataka, on 27, 28 & 29 November 2014 and presented a scientific paper "Estimation of stature from the arm span of an individual in south Indian population".
10. Dr. Chandni Gupta. Attended the ""37TH Annual Conference of Association of Anatomists Tamil Nadu held at Chengalpattu Medical College Chengalpattu, Tamil Nadu on 11th & 12 th of OCTOBER 2014 and presented a scientific paper "A Morphological And Morphometric Study Of Jugular foramen In Dry Skulls With Its Clinical Implications".
11. Dr. Chandni Gupta. Attended the 11<sup>th</sup> Annual South India Medico Legal Association Conference held at PSG Institute of Medical Sciences & Research, Coimbatore from 12<sup>th</sup> to 14<sup>th</sup> September 2014 and presented a scientific paper "Prediction of Stature from the Hand Length of an Individual in South Indian Population".
12. Shridhar H, Kumar M.R. Bhat (2014): A comparative study on strength test of basketball and volleyball players. In First International conference on Sports sciences and technology. Singapore, Dec 2014.
13. Kemparaj H, Kumar M.R. Bhat (2014): Recent trends of sports management in India In First International conference on Sports sciences and technology. Singapore, Dec 2014.
14. Keparaj H, Kumar M R Bhat (2014): Sports administration in India. In Asian Conference for Physical Education & Sports Science, Singapore, July 2014.
15. Sushma RK, Sridhar R Pai, JK Nayak, Anne D' Souza, Hemalatha Bangera, Suhani S, Kumar MR Bhat(2014): A Histological and Biomechanical evaluation of Wound Healing Properties of Indian Traditional Medicines. In intellectbase international academic conference, Kuala Lumpur, Malaysia.
16. Kemparaj H, Kumar MR Bhat (2014). Sports administration in India. In 25th Pan Asian Conference of Sports & Physical Education, Hyderabad. India.

17. Vanishri S. Nayak, Kumar M. R. Bhat, Anne D Souza, Sushma R. K., Vrinda Ankolekar, Antony Sylvan D Souza (2014). Morphology of human larynx- An anatomical study. In 8th Pan ARABFOS Conference, 4th Emirates Rhinology and Otolaryngology Conference, 3rd ARAB and GCC Otolaryngology and Audiology Conference and 1st Advanced Arab Academy of Audiovestibular conference, Dubai, UAE, January, 2014
18. Sushma R. K., Rajgopal K. V., Anne D Souza, Vrinda Ankolekar, Kumar M. R. Bhat, Antony Sylvan D Souza (2014). Study of variations of the middle meatus and their clinical relevance- An anatomical and CT study. In 8th Pan ARABFOS Conference, 4th Emirates Rhinology and Otolaryngology Conference, 3rd ARAB and GCC Otolaryngology and Audiology Conference and 1st Advanced Arab Academy of Audiovestibular conference, Dubai, UAE, January, 2014
19. Dr. Prasanna L C. Attended and presented a poster entitled “Renal vascular morphology and their significance in predicting accessories”, in CMMA-2014, Singapore, on 21-22<sup>nd</sup> July 2014.
20. Dr. Sneha G K. Attended & presented Paper entitled “Effect of cyclophosphamide treatment on the epididymal histology of mouse” at the 10<sup>th</sup> annual national conference of Indian Fertility Society, Pune, India Dec 2014.
21. Dr. Suhani S D’Silva. Presented paper titled “An unusual right popliteal vein aneurysm in an adult: A case report” at International Conference On Asian Studies 2014(ICAS-2014) held at the Galadari Hotel Colombo, Sri Lanka from 14<sup>th</sup> – 15<sup>th</sup> July 2014.
22. Dr. Suhani S D’Silva. Attended Intellectbase International Consortium Academic Conference, held at Kuala Lumpur, Malaysia from 8<sup>th</sup> – 10<sup>th</sup> July 2014.
23. R Huban Thomas. Paper titled “Muscular variation on the dorsum of the foot and alteration of structures passing under cover of the extensor retinacula of the Lower Limb – A case report” was presented at 3<sup>rd</sup> Hong Kong International Conference on Engineering and Applied Sciences, held from December 29-31, 2014 at Hong Kong.
24. R Huban Thomas. Paper titled “An anomalous communication between nerve to mylohyoid and the lingual nerves – their clinical implications – A case report” was presented at the 37<sup>th</sup> Annual Conference of Association of Anatomists Tamilnadu held from 10<sup>th</sup> to 12<sup>th</sup> October 2014 at Chengalpattu Medical College, Chennai, Tamilnadu.
25. Ms. Sushma R K. Paper titled “A Histological and Biomechanical evaluation of Wound Healing Properties of Indian Traditional Medicines” presented at the Intellectbase Academic Conference held at Kuala Lumpur, Malaysia from 8<sup>th</sup> to 10<sup>th</sup> July, 2014.
26. Ms. Sushma R K. Paper titled “Would Effective Lecturing Evoke a Student’s Interest in Learning Anatomy?” was presented at the Intellectbase Academic Conference held at Kuala Lumpur, Malaysia from 8<sup>th</sup> to 10<sup>th</sup> July, 2014.



27. Ms. Sushma R K. Paper titled “Study of variations of the middle meatus and their clinical relevance- An anatomical and CT study” in the 8<sup>th</sup> Pan ARABFOS Conference, 4<sup>th</sup> Emirates Rhinology and Otology Conference, 3<sup>rd</sup> ARAB and GCC Otology and Audiology Conference and 1st Advanced Arab Academy of Audiovestibular conference held at Dubai, UAE from 15<sup>th</sup> to 17<sup>th</sup> January, 2014. (18 CPD Credit points, Accreditation no. 0013/14, Dubai health authority)
28. Ms. Vanishri Nayak. Paper titled “Morphology of Human Larynx: An Anatomical study” was presented at the 4<sup>th</sup> Emirates Rhinology and Otology Conference, held from 15<sup>th</sup> -17<sup>th</sup> January 2014 at Inter Continental Festival City, Dubai, UAE.

### **13. Placement record of the past students and the contribution of the department to aid student Placements.**

Nil

### **14. Plan of action of the department for the next five years.**

1. To organize one state level conference within the next 5 years
2. To attract external grants for Research projects
3. To encourage faculty to attend and present papers atleast once a year in National International Conferences.
4. To motivate the faculty to publish the research papers in the International / National Journals.
5. To establish a clinical skillslaboratory for undergraduate teaching
6. To be equipped with a cadaveric plastination lab

## PHYSIOLOGY

### 1. Faculty profile - adequacy and competency of faculty

There are 13 faculty, meeting MCI requirements for Undergraduate and postgraduate training. All the faculty members are competent.

#### Faculty List

Sl.No	Name	Qualification	Designation	Teaching Experience in years
1	Dr.KirtanaM.Pai	MBBS, MD	Professor & Head	8
2	Dr.Susan Benjamin	MBBS, MD	Professor	39
3	Dr.RaghavendraRao K	MBBS, MD	Professor	22
4	Dr.GauthamKundaje	MBBS, MD	Assoc. Prof.	22
5	Dr.Krishnamoorthi Prabhu	MBBS, MD	Assoc. Prof.	8
6	Dr.Manjula S.D	M.Sc, PhD	Assoc. Prof.	17
7	Dr.DhirenPunja	MBBS, MD	Asst. Prof.	4
8	Dr.Pallavi L.C	MBBS, MD	Asst. Prof.	1
9	Mrs. Suchetha P.Kumar	MSc	Selection Grade Lecturer	25
10	Dr Vasanthaxmi K	MSc, PhD	Assoc. Prof.	20
11	Ms.Sanu Susan Jacob	MSc	Senior Grade Lecturer	9
12	Mr.Siva Kumar G	MSc	Senior Grade Lecturer	6
13	Mr. Snehanshu Adhikari	MSc	Lecturer	6
14	Mr. Murali	MSc	Tutor	1
15	Dr.Surbhi Grover	MBBS	Tutor	-
16	DrPriyankaKumari	MBBS	Tutor	-
17	Dr.AnoopSastry	MBBS	Tutor	-

Category	Sanctioned	Filled
Teaching Staff	13	13
Tutors	07	04

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 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 MCI and the department strictly complies with the laid down requirements. The curriculum is updated periodically within the frame work of the MCI requirement. All the faculty members are actively involved in this. Teaching learning strategies such as self directed learning sessions , problem based and problem solving learning sessions have been included to enhance active learning.

Integrated teaching involving the departments of Anatomy, Biochemistry and the relevant clinical departments has been included from the year 2011.

### 4. Trends in the success and dropout rates of students during the past two years

Success rate:

2013	2014
July (M.Sc) -68%	July (M.Sc) -100%
June(MBBS) -96%	June(MBBS) -95%
April (MD)- 50%	April (MD)- 0%
Oct (MD) – 0%	Oct (MD) – 100%
-	Feb(M.Sc) – 100%
Dec (BDS) – 80%	Dec (BDS) – 71%
July (BDS) -95%	July (BDS) -92%

No drop outs.

### 5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with over 200 books. Computers with internet facility are available to all the faculty and PG students at the workplace. Well equipped air conditioned labs both for undergraduate and postgraduate students are available in the department. Teaching – learning resources (power point presentation, videos, graphs, Q Bank) are updated periodically and available with every faculty member.

### 6. Modern teaching methods practiced and use of ICT in teaching – learning.

The department extensively uses audiovisual aids like power point and video presentations for teaching. In addition, the facilities of the clinical skills lab are made use of as and when needed.

### **7. Participation of teachers in academic and personal counseling of students.**

Every batch of student is equally divided among the available staff members for personal interaction and mentoring. All the faculty members are available full time for academic counseling and discussion. One- to- one interactions are also achieved during periodic viva voce examination.

### **8. Details of faculty development programmes and teachers who have been benefited during the past two years.**

Every newly recruited faculty member attends faculty development programmes pertaining to teaching-learning and evaluation. All the faculty members of the department have undergone such training in the past several years.

### **9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

All the faculty members are actively involved in undergraduate and post graduate teaching. Several faculty members participate in research activities, and in guiding postgraduates thesis work.

The faculty members regularly attend various scientific programmes like conferences, workshops, symposia and CMEs.

The faculty members are involved in integrated teaching programs conducted by paraclinical and clinical departments. They are also involved in teaching Physiology for several clinical postgraduate students as a part of their academic requirement.

### **10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years**

Integrated teaching (both horizontal and vertical) is in process, in collaboration with the different departments of the Institution.

Training at and research collaborations with reputed national and international organizations are also in process. This process has helped faculty and postgraduate students in developing experimental and clinical skills and research methodology.

### **11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years**

#### **Priority areas:**

1. Prophylactic and therapeutic efficacy of neuroprotective agents in the rat model of ischemic brain injury.

2. Neurophysiological and Psychopharmacological basis of the therapeutic use of 1-Triacontanolcerotate in the rat model of chronic epilepsy.
3. Cognitive neuroscience- 2 ongoing projects  
 Feasibility of assessing the cognitive dysfunction in patients with Schizophrenia using brief cognitive assessment scale.  
 To find the effect of binaural beat rhythm on neuropsychological measures, brain wave entrainment, personality & mood states in healthy volunteers.

A snapshot of our research activities and publication activities in given in the tables below.

**Ongoing:**

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	2
PG research projects	3
UG research projects	0

**Last 3 years (2012-2014):**

		2012	2013	2014
Completed funded research projects		0		
Completed non-funded research projects		1		
Completed PhD research projects		0		
Completed PG research projects		1		
Completed UG research projects		0		
Publications	International	1	2	4
	National	2	1	
Books		0		
Chapters in books		0		
Conference presentations	International	0		
	National	0		

The detailed outline of projects is given below:

Ongoing funded research projects are: Nil

Ongoing non-funded research projects are: Nil

**Ongoing PhD research projects:**

Sl .No	Title	Name of Faculty	Name of the guide
1.	Behavioral ,Morphological and biochemical outcomes of dietary supplementation with choline and DHA in rat model of Hippocampal stroke	Mr.Sivakumar.G	Dr.Kiranmai S Rai
2.	Eryptotic pathways in infectious diseases associated with anemia	Mrs.Sanu Susan Jacob	Dr. PragnaRao

**Ongoing PG research projects:**

Sl.No	Title	Name of the student	Guide
1.	In vitro study of effect of radiation emitted by mobile phone on osmotic fragility and other blood parameters	Dr.PriyankaKumari	Dr. Manjula SD

**Completed PhD research projects are:**

Year 2012: Nil

Year 2013: Nil

Year 2014: Nil

**Completed PG research projects:**

Year 2012

S.No.	Title	Name of the student	Guide
1.	Cardiac changes during immersion of face in water in human subject	Dr. Anjusha I B	Dr.B.G.SubbaRao

Year 2013 - Nil

Year 2014

S.No.	Title	Name of the student	Guide
1.	Observational study of association between glyicatedheamoglobin and red blood cell analytic parameters in diabetes mellitus.	Dr. Suryavanshi Chinmay A	Dr. Manjula SD

2	Effect of AnulomViLom And Bhastrika Pranayama on cardiovascular and respiratory parameters in healthy volunteers.	Dr. Poulomi Roy	Dr. GautamKundaje
3	Effect of Anulomvilom pranayama on dysmenorrhoea and on heart rate,blood pressure during dysmenorrhoea.	Dr. SayamSubhash	Dr. KrishnamoorthiPra bhu

**Completed UG research projects are:**

**Year 2012: Nil**

**Year 2013: Nil**

**Year 2014: Nil**

**The details of our publications are described below:**

**Year 2012:**

**International:**

1. RekhaPrabhu, Kirtana M Pai, GirishPrabhu, Shrilatha .A Lecture in Medical Physiology- PowerPoint versus Chalkboard .*South East Asian Journal of Medical Education 2014*, Vol. 8 no.1: 72-76.
2. Shivaprakash G, Akash, Nishith RS, Basu A, PallaviShivaprakash, PrabhaAdhikari, Gopalakrishna HN, Rathnakar UP. Dispensing Patterns and Cost of Glucose-Lowering Therapies in Diabetes Mellitus Patients at a Tertiary Care Hospital in Southern India.*Drug Invention Today 2012*; 4(12): 671-673

**National:**

1. M KirtanaPai and Manjunatha S. Immunology and Nobel Prize: A Love Story. *Indian J PhysiolPharmacol 2012*; 56 (1): 1-6.
2. Karmakar A, Adhikari S. Nicotine induced oxidative damage in rat lymphocytes- an *in vitro* study. *ISOR Journal of Pharmacy Sept- Oct. 2012*; 2(5) 01-04.
3. M KirtanaPai, S Chetan, J PrakasaRao, Ritesh Kumar, Vikas Kumar AND Rishikesh Kumar. Gum arabic enhances paracellular transport of water in amphibian everted small intestinal segments.*Indian J PhysiolPharmacol.2013*; 57(2) : 62–65.
4. Goel, Vartika, S. Manjunatha, and Kirtana M. Pai. "Effect of Red Bull energy drink on auditory reaction time and maximal voluntary contraction." *Indian J PhysiolPharmacol 58*, no. 1 (2014): 17-21.



**Year 2013:****International:**

1. Shivaprakash G, JagadishRaoPadubidri, Pallavi LC. "Unlocking the mystery of paracetamol mechanism of action and existence of cox-3-a review". International journal of universal pharmacy and bio sciences 2013; 2(6):317-325.
2. Shivaprakash G, NateshPrabhu, PriyankaKamath, Sanjay Hadigal, Pallavi LC, JagadishRaoPadubidri. Current Status and Future Perspectives of Herpes Simplex Virus as Oncolytic Virus in Cancer Chemotherapy-A Review. American Journal of Pharmacy and Health Research 2013; 1(8):30-48.
3. Baby PM, Kumar P, Jacob SS. Techniques for estimation of blood volume in clinical settings. JSWR 2013; 6(1):3-13
4. Kalludi, Shivananda N., DhirenPunja, Kirtana M. Pai, and MuraliDhar. "Efficacy and perceived utility of podcasts as a supplementary teaching aid among first-year dental students." The Australasian medical journal 6, no. 9 (2013): 450.
5. Vasanthlaxmi K, Saraswathi Udupa, Laxminarayana Udupa. Wound healing activity of ten indigenous plants in incision and excision wound models in albino rats. *International Journal of Scientific Research* 2013; 2( 9);56-58
6. Annapoorna K & Vasanthlaxmi K. Practice of Meditation: a physiological approach. International Journal of scientific Research 2013; 2(6);65-66
7. Annapoorna K & Vasanthlaxmi K. Effects of Yoga therapy on obesity and quality of life in women: a longitudinal study. International Journal of Yoga and Allied Sciences 2013; 2(1);17-24

**National:**

1. Shivaprakash G, Basu A, AshwinKamath, Pallavi Shivaprakash, Prabha Adhikari, Rathnakar UP, Gopalakrishna HN, JagadishRao. Acanthosis nigricans in PCOS patients and its relation with type 2 diabetes mellitus and body mass at a tertiary care hospital in South India. Journal of Clinical and Diagnostic Research 2013; 7(2): 317-319
2. Annapoorna K, Latha KS, Vasanthlaxmi K. Impact of Yoga therapy in the management of selected physiological and biological measures in females. Indian Journal of Applied research, 2013; 2(1);17-24

**Year 2014:****International:**

1. Pallavi LC and Shivaprakash G. Current status of glucosamine and chondroitin therapy in osteoarthritis. *International Journal of Advanced Research*. 2014; 2(6): 657-660.
2. Shivaprakash G, \*Pallavi LC, Rathnakar UP. Pre-Exposure Prophylaxis (Prep), A New Aids Prevention Tool. Where Are We? Implementation Strategies from Indian Perspectives. *World Journal of Pharmacy and Pharmaceutical Sciences* 2014; Vol 3, Issue 9.
3. Shivaprakash G, PunyaSuvarna, Sanjay Hadigal, PriyankaKamath, NateshPrabhu, Ashok Shenoy K, Pallavi LC. Can Metabotropic Glutamate Receptor 7 (mGluR 7) be a Novel Target for Analgesia?. *Journal of Clinical and Diagnostic Research*. 2014 Sep, Vol-8(9): HC16-HC18.
4. Shivaprakash G, Elizabeth DilipThottacherry, SeemaRai, Nischal, Nandini M, ReshmaKumarachandra, Fahim, Natesh and Pallavi LC. Evaluation of Antioxidant potential of *Costusigneus* in ethanol induced peroxidative damage in albino rats. *Journal of Applied Pharmaceutical Science*. 2014; 4 (08): 052-055.
5. Kirtana M Pai, K RaghavendraRao, DhirenPunja, Asha Kamath. The effectiveness of self-directed learning (SDL) for teaching physiology to first-year medical students. *Australasian Medical Journal*[AMJ 2014;7(11):448–453].
6. DhirenPunja, Shivananda N Kalludi, Kirtana M Pai, Raghavendra K Rao, MuraliDhar. Team-based learning as a teaching strategy for first-year medical students. *Australasian medical journal*[AMJ 2014;7(12):490–499]

**National:**

1. Baby PM, Kumar P, Kumar R, Jacob SS, Rawat D, Binu VS, Karun KM. A novel method for blood volume estimation using trivalent chromium in rabbit models. *Indian J Plast Surg*. 2014 May;47(2):242-8.

**The details of our conference presentations have been listed below:**

**Year 2012****International:**

	Name of the faculty	Details of Conference
1. Evaluation of Anti-epileptic property of <i>Marsilea quadrifolia</i> Linn.in	Mr.Snehunsu Adhikari	2 <sup>nd</sup> National Conference of Transfigures in Bioscience and Technology on 26 <sup>th</sup>

MES and PTZ induced Rat models of epilepsy” 2. Presented paper titled “Effect of Red Bull energy drink on muscle performance: an EMG overview”	Dr Kirtana M Pai Title	September, 2012.  GSTF Advance research in Physiology- 2014 from 21 <sup>st</sup> to 22 <sup>nd</sup> July 2014 at Singapore.
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**National:**

	Name of the faculty	Details of Conference
Paper presented “Endosulfan induced alteration in testicular function and reproductive effect of vitamin C	Dr Manjula S.D	National Symposium and workshop in clinical Embryology, 1 <sup>st</sup> and 2 <sup>nd</sup> December 2012, Manipal

**Sivakumar.G 2014****National conference presentation**

1. Sivakumar.G,Kiranmai S Rai Dietary choline supplementation confers prophylactic neuroprotection in attenuating memory deficits in a rat model of chronic cerebral hypoperfusion brain injury, poster presentation in the proceedings of International symposium on Neurosciences and XXXI Annual conference of Indian Academy of Neurosciences Allahabad India, 2013
2. Divya ,Sivakumar.G,Kiranmai S Rai Therapeutic choline supplementation has lesser competency/potency in alleviating cognitive deficits in chronic cerebral hypoperfusion brain injury, poster presentation in the proceedings of Conference of Indian associations of Physiologists and Pharmacologists Dec 2013.

**Year 2014****International conference presentation and award winning**

1. Sivakumar.G, Akriti.BKanth, Vaishnavi, John M. Soloman, Kiranmai S Rai. Oral choline supplementation can be an effective pharmacological adjuvant to conventional stroke physical therapy rehabilitation program- Evidences from hippocampal neurons of rat model of ischemic brain injury, poster presentation in the proceedings of 3<sup>rd</sup> International Conference of Physical therapy 2014, AIIMS-New Delhi
2. Kiranmai S Rai, Sivakumar.G, Divya, Synergetic neuroprotection of hippocampal neural cells in rats supplemented with choline and docosahexaenoic acid prior to cerebral

hypoperfusioninjury,,poster presentation in proceedings of second international conference on advances in applied sciences and environmental engineering- ASEE2014,Institute of research doctors and engineers USA.

**National:**

	Name of the faculty	Details of Conference
1. Presented poster titled “ Raman spectroscopical analysis of erythrocytes from hyperbilirubinemic blood samples’	Sanu Susan Jacob	59 <sup>th</sup> Annual Conference of Association of Physiologists and Pharmacologists, APPICON-2013 at NIMHANS, Bangalore.
2. Presented poster titled ‘Assessment of audio podcasts as a supplementary teaching and learning aid for dental students’	Dr Dhiren Poonja	59 <sup>th</sup> Annual Conference of Association of Physiologists and Pharmacologists, APPICON-2013 at NIMHANS, Bangalore.

**Year 2014**

**International:**

	Name of the faculty	Details of Conference
1. Presented paper titled “Correlation of Pulmonary functions and muscle strength variations with different phases of menstrual cycle among adults”	Dr Pallavi LC	International Conference on Advances in Healthcare & Life-Sciences, 8 <sup>th</sup> - 9 <sup>th</sup> November 2014, Singapore.

**12. Placement record of the past students and the contribution of the department to aid student placements**

Nil

**13. Plan of action of the department for the next five years**

1. Clinical integration.
2. Fostering student and faculty research
3. Availing research grant form external agencies

**1. Name of the Department: Biochemistry – KMC – Manipal**

**2. Faculty profile - adequacy and competency of faculty**

There are 11 teaching faculty meeting MCI eligibility requirements for MBBS and MD and MSc training.

**Faculty list**

S.No.	Name	Qualification	Designation	Teaching Experience in years
1	Dr Krishnananda Prabhu	MBBS,MD	Professor& Head	15
2	Dr Sudhakar Nayak	MBBS,MD DNB, PhD	Professor	31
3	Dr. Pragna Rao	MBBS, MD, PhD	Professor	28
4	Dr. Nalini K	MSc, PhD	Addl. Prof.	28
5	Dr. Varashree BS	MBBS, MD	Assoc. Prof.	10
6	Dr.Gopalakrishna	MSc, PhD	Assoc. Prof.	28
7	Dr. Shobha U Kamath	MSc, PhD	Assoc. Prof.	26
8	Dr. Padmanabha Udupa	MSc, PhD	Assoc. Prof.	26
9	Dr. Revathi P Shenoy	MSc, PhD	Assoc. Prof.	26
10	Dr. Vinutha R Bhat	MSc, PhD	Selection Grade Lecturer	20
11	Dr. Ravindra Maradi	MBBS, MD	Assoc. Prof.	9
12	Dr. Indranil Ghoshal	MBBS	PG cum Tutor	2
13	Dr. Priyanka Gupta	MBBS	PG cum Tutor	1
14	Dr. John G.	MBBS	PG cum Tutor	<01
15	Dr. Neelam P	MBBS	PG cum Tutor	<01
16	Dr. Sravya	MBBS	PG cum Tutor	<01

Category	Sanctioned	Filled
Teaching Staff	11	11
Tutors	07	05

**2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,**

Please refer Annexure No. HS 1 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 overall syllabus is followed as per the MCI guidelines for MBBS and DCI guidelines for BDS.

#### **MBBS syllabus.**

Learning Objectives for Theory & Practical were framed.

Handbook is given to MBBS students at the time of admission.

Students were given Specification table (general)

#### **MBBS University examination.**

University question paper patterns were revised and made developed uniform across all disciplines.

The revised pattern of theory and practical marks break up for University exams established.

The practical exams have been modified to include digitalized spotters, OSPE and case discussion.

#### **MBBS teaching methodologies**

Theory – Fully didactic were converted to lectures with case based discussions.

Horizontal integration has been introduced during the last two years

#### **MSc Syllabus**

The duration of the First year MSc (Medical Biochemistry) program has been reduced to 8 months and the syllabus has been accordingly modified. The students will be admitted into department of Biochemistry and will remain there for 2 years 4 months. Molecular Biology experiments have also been added to their curriculum.

#### **Post Graduate Teaching - MSc and MD**

The department conducts Seminars, Journal presentation and Clinical Case discussion for Post graduate students on regular basis. The postgraduate students carry out regular lab work under the supervision of a faculty member. The postgraduates undertake their prescribed dissertation work under the guidance of their allotted guide and also do voluntary research projects under different faculty. Postgraduates are encouraged to do minor projects and present papers/ posters during national and international conferences. They are also guided by faculty to publish quality papers in national and international indexed journals.

#### 4. Trends in the success and dropout rates of students during the past two years.

Course	Pass percentage			Dropout rate		
	2011-12	2012-13	2013-14	2011- 12	2012-13	2013-14
MBBS	92%	92%	90%	8%	8%	10%
BDS	92%	98%	95%	8%	2%	5%
MSc (Final)	98%	100%	100%	2%	0%	0%
MD	100%	100%	100%	0%	0%	0%

#### 5. Learning resources of the departments - library, computers, laboratories and other resources.

1. The department has a well-equipped library with over 250 books and, computers with internet facility are available to the Postgraduate students in the workplace. All faculty and students are provided with lap-tops by the University. The entire campus is wi-fi enabled and e-books are provided to students.
2. The UG lab accommodates 60 students at a time. The PG lab is equipped to handle 30 PG students which includes MSc and MD students.
3. MD and MSc courses involve learning the theoretical and practical aspects about various biochemical techniques, chemistry and metabolism of various biomolecules, molecular biology, clinical biochemistry and nutrition. Various colorimetric and spectroscopic techniques, chromatography techniques such as HPLC, Thin Layer Chromatography (TLC), paper chromatography, affinity chromatography, Gel chromatography and gel and SDS-PAGE electrophoresis, Enzymology techniques and Molecular Biology techniques like Western blotting, Restriction digestion of DNA and Transformation are also taught.. Post graduates are also exposed to basic metabolic screening and clinical toxicology in respective divisions of clinical laboratory.
4. Our students are trained in clinical biochemistry techniques and methods to measure parameters in serum, urine and CSF samples. Tests for determining liver, renal and pancreatic functions and estimations of minerals and trace elements, hormones and tumor markers using ELISA are also done.
5. The programs are specifically designed to provide students with a basic and applied theory and practical knowledge of clinical biochemistry within the modern Clinical biochemistry laboratory. The programs also help to develop a student's academic, practical, professional and communication skills so that they can function as a productive member of a health service laboratory team.
6. The PhD laboratory supports 05 PhD scholars and is equipped with sophisticated equipments.



## 6. Modern teaching methods practiced and use of ICT in teaching – learning.

1. The department extensively uses AV aids like Power Point and multi-media for teaching.
2. In addition to this case studies are also included in the curriculum.
3. Experiments involving sophisticated equipment like HPLC, Thin Layer Chromatography (TLC), paper chromatography, affinity chromatography, Gel chromatography and gel and SDS-PAGE electrophoresis, Enzymology techniques and Molecular Biology techniques like Western blotting, Restriction digestion of DNA and Transformation are also taught.
4. Students are encouraged to undertake individual research projects under the guidance of faculty. They can present their findings at various national and regional conferences. Student participation in all P.G. activities; viz, Seminars, Group discussion, Journal club etc is mandatory and provides training in Oral communication skills.
5. The need was felt to introduce a competency based dedicated and structured clerkship training to enhance technical skills and tacit knowledge in clinical biochemistry for the Post Graduate programs (MSc and MD) .We used the deliberate practice curricular planning model which requires students and faculty to focus on purposefully designed outcome-based learning objectives.
6. A clerkship module involving biochemistry laboratory postings in was introduced after the first year. Students spend 15 hours per week in the clinical biochemistry lab. Students were encouraged to learn specific outcome-based learning objectives from senior technicians on a one to one basis. Small group discussions and formative assessments were held whenever necessary. Also periodic traing programs on quality assurance and lab management issues were conducted by expert speakers form diagnostic division.
7. Feedback about progress in learning is given to students through documented Sessionalexaminations, mock viva voce examinations and practical examinations.

### **During the PG course, students develop the following core competences:**

1. Formulate, structure and manage a research project
2. Develop and apply biochemical methodology to generate new knowledge
3. Evaluate and analyze data
4. Organize their own work, both individually and as part of a research group
5. Critically read and evaluate original biochemical literature within their subject area,
6. Discuss the application of biochemistry research results in social, environmental and ethical contexts
7. Disseminate the results of their own and other people's experiments
8. Use correct academic terminology, both orally and in writing
9. Use the subject's main databases and relevant IT technology.
10. Are familiar with the medical applications their subject

## 7. Participation of teachers in academic and personal counseling of students

1. All faculty members are involved in teacher guardian program where teacher has to guide and counsel the students allotted to them and take responsibility for their academic, health, emotional and personal development.
2. Faculty enthusiastically volunteers to guide students for ICMR and non ICMR related projects which help students to publish their work and present their findings at National and International conferences.

## 8. Details of faculty development programs and teachers who have been benefited during the past two years.

1. All teaching faculty involved as authorized signatories in the clinical biochemistry diagnostic lab have attended NABL training program.
2. All faculty have attended faculty development programs pertaining to teaching-learning and evaluation and enhancing teaching skills conducted by Manipal Center for Professional Development and Medical Education Department.
3. 3 faculty attended SEARME 2012, an international conference on Medical Education at Coimbatore related to OSPE/OSCE.
4. All faculty regularly attend various scientific programs like conferences, workshops, symposia and CMEs every year related to Biochemistry and Medical Education.
5. Dr. Krishnananda Prabhu completed FAIMER fellowship at PSG, Coimbatore in 2014.
6. Dr. Pragna Rao attended One-day workshop on Understanding Cochrane systematic reviews on Diagnostic Test Accuracy on Jan 21,2012
7. Dr. Pragna Rao completed FAIMER Fellowship at GSMC, Mumbai June 2012.
8. Dr Pragna Rao, Dr Krishnananda, Dr Ravindra Maradi and Dr Sudhakar Nayak have been trained under MCI conducted Basic medical Education Technology workshop conducted in St Jon's Medical College, Bangalore.
9. Dr Pragna Rao and Dr Krishnananda Have been selected and attended first contact session of training in MCI recognized Advanced Course in Medical Education at St Jon's Medical College, Bangalore.
10. We Have Conducted 3 Basic Medical Education workshop Under MCI observer for training of our in house faculty and 90 faculty have gone through this training so far.
11. Dr Vinutha Bhat and Dr Padmanabha Udupa have undergone training in Clinical Toxicology at AIIMS poison detection center, in 2015

### List of Conferences / Seminars / Symposia / Workshops Organized by the department/ institution: (National)

#### 2014

1. Awareness program on Clinical Chemistry Trainee Council by Dr. Kanagasabapathy A. S. on Feb 1<sup>st</sup> 2014.
2. On 14th August 2014 a Road show and presentation on the Topic : Tools to Knock Down and Knock Out Cells in Mammalian Cells - Lecture by Dr. Sivaram, Business Manager, Sigma Aldrich Chemicals, Bangalore and demonstration on Sigma Web Tools – by Mr. Anand Barve.
3. Dept. of Biochemistry, KMC & KH, Manipal organized a CME in association with IMA Udupi – Karavali chapter on Laboratory services of Kasturba Medical College & Hospital on 21<sup>st</sup> Sept 2014 at IMA Bhavan, Udupi. Dr. Krishnananda Prabhu briefed on routine and special investigations available in Biochemistry.
4. CME and workshop on Diabetes Mellitus and cardiovascular diseases : Therapeutics and Investigations organized by Dept. of Biochemistry and Medical Simulation center on 28<sup>th</sup> May 2014
5. Cheminova 2014 – CME and an intercollegiate lecture competition for Biochemistry PGs held on 5/12/2014
6. Dr. Shanthi Naidu, Dept. of Laboratory Medicine, CARE Hospital, Hyderabad- Guest lecture on “Paradigm shift in Renal Biochemistry – Recent Advances” on 06 Jan 2014
7. Dr. Suchetha Dandekar, Head of Biochemistry Dept., KEM Medical College, Mumbai - Guest lecture on “Various Roles of a Biochemist” on 14 Feb. 2014.
8. Dr. C. Raghothama, Research Faculty, John Hopkins University, USA - Guest lecture on “Dynamic Range of proteins” - 16/4/2014
9. Ms. Shalini Kini, Product Specialist, Clinical Systems Division, Biorad - “Quality control in diagnostic laboratory - training sessions” - 3/3/2014 and 16/7/201
10. Dr. B. L. Prakash, VP, Ras Life Sciences, Hyderabad - Guest lecture on “What is the scope after PG degree in clinical sciences” -11/10/2014
11. Mr. Narendra Nadig, Roche Diagnostics - Guest lecture on “ Method validation”- 7/4/2014
12. Workshop conducted for MU-SRF students in Diagnostic Biochemistry 2014 on 11/7/2014

#### 2013

1. International CME Indo Malaysian CME on “Laboratory Medicine” on 20<sup>th</sup> Feb. 2013.
2. ICMR sponsored national CME and workshop on “Inherited Metabolic disorders” on 30<sup>th</sup> Sept. and 1<sup>st</sup> Oct. 2013

3. Dr. Nandini Kumar, Former Director- ICMR and Professor in Hospital Administration, KH gave a guest lecture on “Bio Ethics” on 13<sup>th</sup> Mar.2013
4. Dr. Srinivas Charkravarthy, (Alumni ) from Dept. of Biophysics and Biophysical chemistry, John Hopkins University, USA gave guest lecture on “My experience with chromatin” on 26<sup>th</sup> Apr. 2013

## 2012

1. CME on “Biochemistry of Molecular markers in Cancer- an update”, March 30th, 2012 Organized by Department of Biochemistry, KMC, Manipal.
2. “Biochem Fest 2012” –for Post graduate students- Organized by Department of Biochemistry, KMC, Manipal in Apr. 2012.
3. Workshop on “Career Guidance for Life Science students”- by Dr Kshitish Acharya, Founder Director, Shodaka., Bangalore. Organized on 5th April, 2012, by Department of Biochemistry, KMC, Manipal.
4. Workshop on “Pre analytical errors and Importance of Calibration and controls” by Dr. AnithaDevanath from St. John’s Medical college on 28th June 2012
5. Workshop on “P3 and LEAN presentation” and followed by study by Ms. Lakshmi Ramachandran, Johnson & Johnson Co., on 28th to 30th June 2012

### Other workshops/conferences attended by faculty are here below:

Year	National Conferences	International Conferences
2012	38	05
2013	27	04
2014	23	07

### **Following is the list of Conferences attended and presentations made by faculty.**

## 2012

1. Dr. Pragna Rao attended 5th Annual Conference on Genetic and Molecular Diagnosis in Modern Medicine , SRMC, Chennai Jan 27th 2012 Biochemical Methods in Diagnosis of Inherited Metabolic Diseases March 20th 2012
2. Dr. Pragna Rao attended Symbiot 2012 organized by Department of Biotechnology, MIT, Manipal “Natural Biomolecules in health and disease”
3. Dr. Pragna Rao attended Society of Biological Chemists- Karnataka Chapter opening: Exosomes.
4. Dr. Pragna Rao attended “ Case Based learning” at the Workshop on Pedagogic and Personal Effectiveness : July 2012 Organized by Medical Education Department, KMC, Manipal
5. Dr. Revathi P Shenoy presented “Effect of hypothyroidism on lipid metabolism” at 5th Annual Conference on Genetic and Molecular Diagnosis in Modern Medicine 2012, held at SRM University from 26th to 30th Jan 2012

6. Dr. Pragna Rao, Dr. Revathi Shenoy, Dr. Krishnananda Prabhu, Vinutha R Bhat - presented “Innovation in undergraduate spotter examination” in South East Asian International and Indian National Conference on Health Professions Education, SEARAME NCHPE 2012 at PSG Institute of Medical Sciences & Research, Coimbatore, India. 6th – 8th September 2012
7. Dr. Varashree presented a paper on “Study of serum E-selectin levels in cardiovascular disorders in Udupi district”. Salini Shereen Koshy, Sumanth H.D, Namita Rao, Varashree B.S, Pragna Rao. 39th annual conference of association of clinical biochemists of india (ACBICON)- 2012 held on 11- 14th dec 2012 at Khelgaon, Ranch
8. Dr. Ravindra Maradi - Attended and presented a poster titled “Effect of serum copper concentration and ceruloplasmin on lipid parameters leading to increased propensity to cardiovascular risk” at 11th APAMT2012( Asia Pacific Association of Medical Toxicology) from November 29th to December 1st 2012 at Hongkong.
9. Dr. Anushre Prasad, presented Poster titled “Approach To Challenges In Establishing Inborn Errors Of Metabolism Laboratory” at 5th Annual Conference on Genetic and Molecular Diagnosis in Modern Medicine 2012 in January, 2012 held at SRM University, Chennai, India
10. Dr. Anushre Prasad, presented Poster titled “Methylmalonicacidemia; early diagnosis and treatment: A Case Report” at the Indo-US symposium on Disorders of the Developing Brain held in October, 2012 at Manipal University, Manipal
11. Dr. Krishnananda Prabhu - Attended and presented a poster titled “Comparison of pre and post radio therapy butyrylcholinesterase levels in oral cancer” at 11th APAMT2012( Asia Pacific Association of Medical Toxicology) from November 29th to December 1st 2012 at Hongkong.
12. Dr. Shobha U Kamath attended Workshop “Teacher as communicator “ organized by MCPD , MU, Manipal-16<sup>th</sup> nov 2012
13. Dr. Shobha U Kamath attended National workshop on “PhD Program for medical innovations” in Oct 18<sup>th</sup>-19<sup>th</sup> 2012 organized by D.Y.Patil University, Kolhapur.
14. Dr. Shobha U Kamath attended Workshop on Pedagogic and Personal Effectiveness organized by Medical Education department ,KMC , Manipal 10<sup>th</sup> -14<sup>th</sup> July 2012
15. Dr. Shobha U Kamath attended Course on “Laboratory Quality Management and internal Audit” as per ISO 15189 :2007 organized by Centre for electronics test engineering Bangalore - 4-7<sup>th</sup> June 2012
16. Dr. Shobha U Kamath attended Indo- US Symposium on Disorder of the developing brain organized by MLSC and KMC ,MU.-27-28<sup>th</sup> Oct 2012.
17. Dr. Shobha U Kamath attended Costal Karnataka Chapter of Society of Biological Chemists (India) organized by MLSC, MU -2<sup>nd</sup> June 2012.
18. Vinutha R Bhat Attended NABL workshop on Lab quality at management & internal audit Bangalore from 4-7<sup>th</sup> June 2012

19. Vinutha R Bhat Attended workshop on Pedagogic & personal effectiveness from 24<sup>th</sup> -28<sup>th</sup> July 2012 organized by medical education Dept ,KMC Manipal
20. Vinutha R Bhat Attended workshop on Academic leadership on 22<sup>nd</sup> March 2012 organized by MCPD ,MU,Manipal
21. Vinutha R Bhat Attended a South East Asian International Re Indian National Conference on health Professions education from 6<sup>th</sup> – 8<sup>th</sup> Sept 2012 at PSG Institute of medical Science & Research – Coimbatore
22. Vinutha R Bhat Attended Symposium of costal Karnataka chapter of society of biological Chemists (India) , held at Manipal Life Sciences centre , Manipal University , Manipal on 2<sup>nd</sup> June 2012
23. Vinutha R Bhat Participated in Manipal Biochemistry updates on Biochemical & molecular markers in Cancer – An updates on 30<sup>th</sup> March 2012 organized by Dept of biochemistry ,KMC, MMMC, KMC IC
24. Dr. Varashree BS Attended Symposium of costal Karnataka chapter of society of biological Chemists (India) , held at Manipal Life Sciences centre , Manipal University , Manipal on 2<sup>nd</sup> June 2012
25. Dr. Varashree BS attended Workshop on Pedagogic and Personal Effeteness organized by Medical Education department ,KMC , Manipal 10<sup>th</sup> -14<sup>th</sup> July 2012
26. Dr. Revathi P Shenoy attended a South East Asian International Re Indian National Conference on health Professions education from 6<sup>th</sup> – 8<sup>th</sup> Sept 2012 at PSG Institute of medical Science & Research – Coimbatore
27. Dr. Revathi P Shenoy attended 5th Annual Conference on Genetic and Molecular Diagnosis in Modern Medicine 2012,held at SRM University from 26th to 30th Jan 2012
28. Dr. Revathi P Shenoy attended South East Asian International and Indian National Conference on Health Professions Education, SEARAME NCHPE 2012 at PSG Institute of Medical Sciences & Research, Coimbatore,
29. Dr. Revathi P Shenoy attended Workshop on “Body –Mind Balancing” o organized by Manipal Centre for Professional and Personal Development Manipal University at Manipal on 27<sup>th</sup> October, 2012
30. Dr. Revathi P Shenoy attended The pre-conference workshops (half day) on afternoon of 5<sup>th</sup> September 2012 on Quality Assurance: Conducting Organizational Self-assessment , South East Asian International and Indian National Conference on Health Professions Education, SEARAME NCHPE 2012 at PSG Institute of Medical Sciences & Research, Coimbatore, India.
31. Dr. Revathi P Shenoy attended The pre-conference workshops (half day) on forenoon of 5<sup>th</sup> September 2012 Early Clinical exposure: Bringing social relevance and context to Basic science teaching , South East Asian International and Indian National Conference on Health Professions Education, SEARAME NCHPE 2012 at PSG Institute of Medical Sciences & Research, Coimbatore, India.



32. Dr. Revathi P Shenoy attended Workshop on Pedagogic and Personal effectiveness, From 24<sup>th</sup> to 28<sup>th</sup> July 2012 organized by Manipal Centre for Professional and Personal Development Manipal University
33. Dr. Revathi P Shenoy attended Workshop on “Frame It-Designing Instructional Objectives” organized by Manipal Centre for Professional and Personal Development Manipal University at Manipal on 22<sup>nd</sup> June , 2012
34. Dr. Revathi P Shenoy attended Symposium of Coastal Karnataka Chapter of Society of Biological Chemists (India) organized by Manipal Life Science Centre, Manipal University , Manipal on 2<sup>nd</sup> June 2012
35. Dr. Revathi P Shenoy attended Teacher as a leader Workshop on Academic leadership organized by Manipal Centre for Professional and Personal Development Manipal University 1 on 20<sup>th</sup> January, 2012
36. Dr.B.Shivananda Baliga participated “LABORATORY QUALITY MANAGEMENT & INTERNAL AUDIT” AS PER ISO 15189:2007At STQC Directorate, Bangalore from 04<sup>TH</sup> TO 07<sup>TH</sup> June 2012
37. Dr. B. Shivananda Baliga participated Symposium of coastal Karnataka chapter of society of Biological chemists at MLSC, Manipal on 02<sup>nd</sup> June 2012
38. Dr. B. Shivananda Baliga participated Workshop on medical writing’ conducted by Dept of Medicine, KMC, Manipal from 16<sup>th</sup> to 17<sup>th</sup> June 2012
39. Dr. B. Shivananda Baliga participated “Workshop on pedagogic and personal effectiveness” conducted by MCPD, MU, Manipal from 24<sup>th</sup> to 28<sup>th</sup> July 2012
40. Dr. Anushre Prasad attended Workshop on “Teacher as a communicator” organized by Manipal Center for Personal and Professional Development (MCPD) at Kasturba Medical College, Manipal in Nov, 2012
41. Dr. Anushre Prasad attended 5<sup>th</sup> Annual conference on Genetic and Molecular Diagnosis in Modern Medicine 2012, at SRM University, Chennai, India
42. Dr. Anushre Prasad attended Indo-US symposium on Disorders of the Developing Brain held in October, 2012 at Manipal University, Manipal.
43. Dr. Pragna Rao attended on Jan 21,2012 : One-day workshop on Understanding Cochrane systematic reviews on Diagnostic Test Accuracy

### 2013

1. John, Pamala and Mohapatra, Nirupam and Gopalakrishna, K and Nalini, K and Shivasankar, K (2013) Comparative study of Fructosamine and HbA1c in the assessment of Glycemic Status. In: 40th National Conference Association of Clinical Biochemists of India ACBICON 2013, 5th Dec 2013, New Delhi, India. (Submitted)
2. Prabhu, Krishnananda and Shenoy, Vijetha (2013) Correlation of adenosine deaminase activity in cerebrospinal fluid with CD4 count in HIV positive patients suffering from tuberculous meningitis. In: International Conference on Forensic Sciences, 08-09 Jul 2013, London, UK. (Submitted)



3. Mohapatra, Nirupam and John, Pamala and Shenoy, Revathi P and Varashree, BS and Adiga, Sripathi (2013) Panchakarma treatment- A rejuvenation. In: 40th National Conference Association of Clinical Biochemists of India ACBICON 2013 , 4th Dec 2013, New Delhi India. (Submitted)
4. Mohapatra, Nirupam and John, Pamala and Prasad, Anushre and Nayak, Dinesh and Shenoy, Revathi P and Rao, Pragna (2013) A case report on hartnup disease. In: International conference on Inborn Errors of Metabolism & 2nd National Conference of ISIEM, 5th April 2013, New Delhi, India. (Submitted)
5. John, Pamala and Mohapatra, Nirupam and Prasad, Anushre and Hebbar, Shriikiran and Rao, Pragna (2013) A case report on mucopolysaccharidosis-hunters disease. In: International conference on Inborn Errors of Metabolism & 2nd National Conference of ISIEM, 6th April 2013, New Delhi, India. (Submitted)
6. Pushkal S R, Suhasini Kamath (M.Sc Students) Title : COMPARISON OF PLASMA, SALIVARY AND URINARY PSEUDOCHOLINESTERASE ACTIVITY IN ORAL CANCER, GUIDE : Krishnananda Prabhu, CO GUIDE : Donald J Fernandes, Prakash Saxena. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
7. Suhasini Kamath,Pamala John, Nirupam Mohapatra ,Title-CORRELATION OF SERUM MAGNESIUM WITH CARDIAC MARKERS IM PATIENTS WITH MYOCARDIAL INFARCTION; Guide: Revathi shenoy,Nalini K, Varashree B S. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
8. Arpitha Gururaja, Afreen A Choudhry, Rajeshwari S G, Komal Smriti. Title: Estimation Of Fasting Glucose In Type 2 Diabetes Millitus Patients & its Relationship With Fasting Blood Glucose Level. GUIDE : Krishnananda Prabhu, CO GUIDE : Keerthilatha M Pai. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
9. Afreen A Choudhry, Rajeshwari S G, Arpitha Gururaja, Komal Smriti. Title : Assesment of oxidative stress in saliva of type 2 Diabetes Millitus patients. GUIDE: Krishnananda Prabhu, CO GUIDE: Keerthilatha M Pai. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
10. Rajeshwari S G, Arpitha Gururaja, Afreen A Choudhry, Komal Smriti. Title : Assesment of anti-oxidant status in the saliva of type 2 Diabetes Millitus patients. GUIDE : Krishnananda Prabhu, CO GUIDE : Keerthilatha M Pai. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
11. Priyanka P C, Title : Comparitive evaluation of serum cystatin c and creatinine in cancer patients recieving chemotherapy.GUIDE:Nalini K,CO GUIDE: Saleena U

- V. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
12. Sowjanya, Title : The effect of ethanolic extract of acacia auriculiformis leaves on learning and memory in rats and estimation of acetylcholinesterase activity in rat brain tissue. GUIDE : Shobha U Kamath, CO GUIDE : Ajitha. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  13. Nirupam Mohaptra, Pamala John, Title : Panchakarma treatment : A rejuvenation? GUIDE : Revathi P Shenoy, CO GUIDE : Sripathi Adiga, Varashree BS, Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  14. Nirupam Mohaptra, Pamala John, Title: A case report on Hartnup's disease, GUIDE : Anushree Prasad, CO GUIDE: Revathi P Shenoy, Conference: "2nd Conference on Inborn Errors of Metabolism (IEMCON) from 4th - 8th April,2013 at "Auditorium, Dr. R.M.L. Hospital & PGIMER" New Delhi.
  15. Pamala John, Nirupam Mohapatra, Title: Comparative study of fructosamine and HbA1c in the assesment of glycemic status, GUIDE: Nalini K, CO GUIDE: Gopalakrishna K, Shivshankar K. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  16. Pamala John, Nirupam Mohapatra, Title: A case report on Mucopolysaccharodoses. GUIDE : Anushree Prasad, Conference: "2nd Conference on Inborn Errors of Metabolism (IEMCON) from 4th - 8th April,2013 at "Auditorium, Dr. R.M.L. Hospital & PGIMER" New Delhi.
  17. Pramod Kumar Yadav, Chitrini Ghosal, Mamta Kandwal.Can Sodium valproate protect spatial learning deficiets induced by pentylenetetrazole (PTZ) induced kindled epileptic rats? Guide: DrShobha U Kamath. Co Guide: Snehanshu Adhikari. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  18. Chitrini Ghosal, Pramod Kumar Yadav, Mamta Kandwal .Sodium valproate ameliorates brain oxidative stress in pentylenetetrazole (PTZ) induced chronic epilepsy in rats . Guide: DrShobha U Kamath. Co Guide: Snehanshu Adhikari. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  19. Ian Lasrado, Arpitha Gururaja, Rajeshwari S G . Prevailing serum Vitamin D levels among individuals in South Karnataka. Guide: Pragna Rao. Co Guide: Surekha Bhat. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.

**2014**

1. Pushkal, SR and Shenoy, Vijetha Belle and Prabhu, Krishnananda (2014) Can high normal TSH level predispose to hypercholesterolemia? In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
2. Rajeshwari, SG and Choudhry, Afreen Arshad and Prabhu, Krishnananda (2014) Correlation of Insulin/C peptide ratio with HbA1C and plasma HDL in type ii diabetes mellitus patients. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
3. Sowjanya, \* and Priyanka, P and Prabhu, Krishnananda and Nalini, K (2014) Correlation of Serum Globulins and Lipid Profile. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
4. Pal, Sindu and Prabhu, Krishnananda and Shenoy, Vijetha (2014) Correlation of adenosine deaminase activity in cerebrospinal fluid with CD4 count in HIV positive patients suffering from tuberculous meningitis. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
5. Varashree, BS and Shenoy, Vijetha Belle and Prabhu, Krishnananda and Rao, Namita and Kumar, Pratap and Rao, Pragna (2014) Correlation of first trimester serum free beta HCG and PAPP-A levels with maternal BMI. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
6. Agarwal, Nupur and Musharraf, S and Anandh, Shabari JV and Amuthan, Arul and Devi, Vasudha and Shenoy, Revathi P (2014) Effect of the aqueous extract of vitex negundo on induced endometriosis in sprague dawley rats. In: Proceedings: 41st Annual Conference of Association of Clinical Biochemists of India (ACBICON 2014), 10-13 Dec 2014, Jodhpur.
7. Geeta, S and Kamath, Sethukumar M and Shenoy, Revathi P (2014) Evaluating the usefulness and efficacy of the ayurvedic drug- *Tinospora cordifolia* in human. In: In:"South Regional Conference of The Association of Clinical Biochemists of India - 2014", 22-23 May 2014, Kasturba Medical College, Mangalore.
8. Nalini, K and Ummer, Saleena V and Vadiraja, B and Prabhu, Ravindra R (2014) Evaluation of urinary il-18 as an early biomarker of kidney injury in cisplatin treated cancer patients. In: South Regional Conference of the Association of Clinical Biochemistry of India 2014, 22-23 May, 2014, KMC, Mangalore.
9. Prabhu, Krishnananda and Shenoy, V and Shetty, R and Singh, S and Datta, P and Rao, Pragna (2014) NT Pro BNP in assessing the severity of stable coronary artery disease. In: Australian Association Clinical Biochemist 52 nd Annual Scientific conference, 27th-29th Oct 2014, Adelaide, South Australia.
10. Ghoshal, Indranil and Prabhu, Krishnananda and Hebbar, Shrikiran (2014) Renal

- tubular acidosis with extreme hypercalcemia- a case report. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
11. Shenoy, Vijetha Belle and Prabhu, Krishnananda and Shetty, Ranjan K and Singh, Kriti and Datta, Priyanka (2014) Serum Myeloperoxidase and HDL-cholesterol in stable coronary artery disease. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
  12. Menezes, Nympha Deena and Prabhu, Krishnananda and Naik, Divya and Ray, Satadru and Kamath, Asha (2014) Serum butyrylcholinesterase levels in Oral Squamous Cell Carcinoma. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
  13. Prabhu, Krishnananda and Naik, Divya and Ray, Satadru M and Vadiraj, \* and Rao, Anjali and Kamath, Asha (2014) Serum phosphodiesterase in prognosis of oral cancer. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
  14. Pooja R Shenoy , Dr. Krishnananda Prabhu Acetylcholinestrace in type ii diabetes patients. student research poster competition 2014 (srpc 2014)Date: 11-12<sup>th</sup> April, 2014 kmc, manipal
  15. Pooja R Shenoy, Dr.Shobha U Kamath. Assessment of oxidant and anitioxidant levels in gingivitis and periodontitis patients before and after oral wash treatment.south regional conference of the association of clinical biochemists of india 2014 date:22-23<sup>rd</sup> may 2014, kmc manglore
  16. Pooja R Shenoy, Dr.Shobha U Kamath. Evaluation of metallic toxicity of the lead used in nagabhasma- a lead based ayurvedic medicine. ACBICON 201441<sup>st</sup> national conference of association of clinical biochemists of India date:10-13<sup>th</sup>December, 2014, Aiims Jodhpur.

## 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

1. All the faculty are actively involved in teaching UG and PG students. All of them participate in inter departmental research and short term ICMR sponsored research projects for UG students.
2. Faculties have developed UG Practical Manual book, Digitalized Spotters for Practical examination, PG log book and department library.
3. Teachers also moderate Seminars/Clinical case presentation of PG students.
4. All faculty are involved in guiding ICMR STS projects for UG students

### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years.

1. ICMR funded project related to the “Analysis of risk factors in preterm birth in Udupi district” in collaboration with Community Medicine Dept. and Microbiology Dept. is presently in progress.
2. PhD work of students from Department of Plastic surgery and Physiology is supported by the Dept. of Biochemistry
3. Collaboration with Dept. of Pediatrics for establishing inherited metabolic error screening lab.

### 11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years

#### Priority areas of research includes:

1. Comparison of markers of oxidative stress, antioxidants, angiogenesis and cellular differentiation in saliva and blood of oral cancer patients.
2. Angiogenic factors in Dysfunctional uterine bleeding, pre eclampsia and diabetic retinopathy.
3. Evaluation of salivary thiols, cholinesterase, ferritin and neurotoxic metals like lead, mercury, cadmium, zinc in children suffering from attention deficit hyperactivity disorder.
4. Evaluation of oxidative stress and antioxidant profile in GI malignancies.(compared in pre and post-surgery samples).
5. Study of a few biochemical parameters in polycystic ovarian syndrome.
6. Estimation of oxidant and antioxidant status in chronic periodontitis.
7. Study of serum and uterine pro and anti-angiogenic factors.
8. Risk factors in pre-term birth.
9. N-Gal and other markers of kidney failure.

A snapshot of our research activities and publication activities is given in the tables below:

#### Ongoing:

Category	Number
Funded research projects	2
Non-funded research projects	6
PhD research projects	4
PG research projects	2
UG research projects	-

**Last 3 years (2012-2014):**

		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		3	1	1
Completed PhD research projects		0	0	0
Completed PG research projects		3	1	1
Completed UG research projects		0	0	0
Publications	International	22	22	29
	National	7	5	6
Books		0	0	1
Chapters in books		0	1	1
Conference presentations	International	3	4	3
	National	4	13	9

**Ongoing PhD research projects which are under Manipal University funded scholarship :**

Sl.No.	Title	Name of the student	Name of guide	Year
1.	Role of Angiogenic factors in dysfunctional Uterine bleeding	YousefRezai	Dr Pragna Rao	2012
2.	Evaluation of plasma pro-angiogenic and anti angiogenic factors in diabetic retinopathy	BhaskarGaonkar	Dr Krishnanda Prabhu	2012
3.	Evaluation of the role of selected serum micronutrients and angiogenic factors in pre eclampsia	Jenu Maria Thomas	Dr RevathiShenoy	2012
4	In vitro study of natural inhibitors of angiotensin converting enzyme (ACE) in Sheep (Ovis aries) tissues	Ranjini HS	Dr. Padmanabha Udupa	2013

**M.D. research projects:**

Sl.No.	Title	Name of student	Guide	Year
1.	Evaluation of usefulness of serum NT pro BNP and myeloperoxidase in patients of stable coronary artery disease	Dr.VijethaShenoy	Dr.Krishnananda Prabhu	2012



2.	Screening of inborn errors of carbohydrate metabolism	Dr.PriyankaDatta	Dr.Sudhakar Nayak	2012
3.	Diagnosis of inborn errors of metabolism using enzyme assays	Dr.Kriti Singh	Dr.Pragna Rao	2012
4.	Compariosn of serum human placental lactogen and zinc levels with calculated risk score generated in women undergoing first trimester screening	Dr. Indranil Ghosal	Dr. Krishnananda Prabhu	2013
5.	Galectin – 1, SFRP4 and proteasome in endometriosis	Dr. Priyanka Datta	Dr. Pragna Rao	2014

#### Ongoing M.Sc. Research Projects(Non funded):

S.No.	Project title of Post graduate students	Name of the guide faculty	Year
1.	Antioxidant status in Panchakarma patients	Dr.Revathi P Shenoy	2013
2.	Comparison of fructosamine and HbA1c in the assessment of glycemic status	Dr.Gopalakrishna K Dr.Nalini K	2013
3.	Study of urinary excretion of VMA and 5-HIAA in ADHD children before ,during and after the mindfulness training	Dr.Revathi P Shenoy	2013
4.	Correlation between serum trace elements and cardiac markers in Myocardial Infarction patients.	Dr.Revathi P Shenoy	2013
5.	Evaluation of oxidative stress in Myocardial Infarction patients.	Dr.Revathi P Shenoy	2013
6.	Estimation of AChE ,oxidative marker Pentylenetetrazol (PTZ)induced epileptic rats	Dr.Shobha U Kamath	2013
7.	Correlation between anti-TPO with thyroid function tests and differentclinicalconditions	Dr.Krishananda Prabhu	2013
8.	HOMA-IR/C-peptide ratio –tool for prediction of prognosis of Type II Diabetes mellitus	Dr.Krishananda Prabhu	2013
9.	Clinical utility of Vit.D testing	Dr.Pragna Rao	2013
10.	Correlation of salivary glucose with fasting glucose and antioxidant status in plasma	Dr.Krishananda Prabhu	2013



11.	Comparison of serum electrolytes, urea, creatinine with fasting glucose and glycated Haemoglobin	Dr.Krishananda Prabhu	2013
12.	Study of activity of ACE in presence of natural inhibitors	Dr.P.Udupa	2013
13.	Urinary expression of Rifampicin in hyperlipidemic state in pulmonary tuberculosis patients	Dr.Pragna Rao	2013
14.	Study Of association of hs-CRP with lipid profile in south Indian population	Dr.Krishananda Prabhu	2013
15.	Prevailing serum Vit.D levels among individuals in South Karnataka	Dr.Pragna Rao	2013
16.	Estimation of serum, salivary and urinary Butyrylcholinesterase in Oral and oropharyngeal cancer patients	Dr.Krishananda Prabhu	2013
17.	Estimation of GABA and Glutamate levels in Epilepsy induced rats and mice and evaluation of antiepileptic activity of Calotropis procera	Dr.Krishananda Prabhu	2013
18.	Can high normal TSH predispose to hypercholesterolemia?	Dr.Krishananda Prabhu	2013
19.	Correlation of thyroid function with lipid profile and electrolytes	Dr.Krishananda Prabhu	2013
20.	Effect of Acacia auriculiformis_ leaf extract on learning and memory in rats and estimation of AChE activity in rat brain tissue	Dr.Shobha U Kamath	2013
21.	Correlation of serum globulin with Lipid profile	Dr.Krishananda Prabhu	2013
22.	Effect of Moringa oleifera_seed extract on BPH induced rats	Dr.Shobha U Kamath	2013
23.	A comparative evaluation of serum creatinine and Cystatin C in head and neck cancer patients receiving Chemotherapy as an indicator of kidney injury	Dr.Nalini K	2013
24.	Assessment of oxidant and anitioxidant levels in gingivitis and periodontitis patients before and after oral wash treatment.	Dr.Shobha U Kamath	2014
25.	Evaluation of metallic toxicity of the lead used in nagabhasma- a lead based ayurvedic medicine.	Dr.Shobha U Kamath	2014

26.	Estimation of lipid peroxidation and thiol levels in maternal separation stressed rats through aging	Dr.Shobha U Kamath	2014
27.	Estimation of vitamin c in cataract patients	Dr.Shobha U Kamath	2014
28.	Evaluation of angiogenic biomarkers in patients with dysfunctional uterine bleeding	Dr. Pragna Rao	2014
29.	Evaluation of serum Magnesium and Na-K ATPase activity in the progression of Type I Diabetes mellitus	Dr. Revathi P.Shenoy Dr. Varashree B. S. Dr. Manjunath Hande	2014

**Details of Research Grants:**

Sr. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)
1	Serum human placental lactogen and zinc levels in women undergoing first trimester screening”	Dr. Indranil Ghosh (Guide : Dr. Krishnananda Prabhu)	ICMR2013	Rs.25,000/-
2	Association of sleep deprivation with IGT and Type II Diabetes Mellitus”	Tamagna Gosh (Guide : Dr. Krishnananda Prabhu)	ICMR STS 2013	Rs. 10,000/-
3	“Evaluation of Angiogenic Biomarkers in patients with Dysfunctional Uterine Bleeding”	Dr. Pragna Rao	ICMR 2013	Rs. 12.90 lakhs
4	Plasma Amino acid profiling in breast cancer	Sairoz (Guide : Dr. Krishnananda Prabhu)	KMC, Manipal 2014	Rs. 10,000

	patient and its application in early detection			
5	Center of excellence to establish a Newborn Screening Lab and to Initiate the Mass Screening Programme for the State	Dr. Pragna Rao	VGST, Govt. of Karnataka 2014	Rs. 60.00 lakhs

**The details of our publications are described below:**

Year	Number of National Publications	Number of International Publications
2012	07	22
2013	05	22
2014	06	29

**2012:**

**International 2012**

1. Kandi S, Rao P. Anti-thyroid peroxidase antibodies: Its effect on thyroid gland and breast tissue. Ann Trop Med Public Health [serial online] 2012 [cited 2013 Jan 6];5:1-2. Available from: <http://www.atmph.org/text.asp?2012/5/1/1/92870>
2. Rao, Pragna (2012) Study of Oxidative stress, bone mineral status and fluoride levels in postmenopausal women in endemic fluorotic area of Andhra pradesh, India. International Journal of Pharmacy and Biological Sciences, 2 (2). pp. 77-83. ISSN 2230-7605
3. Dabke, Partha and Rao, Pragna (2012) Diagnostic Challenges in Mitochondrial Disease. International Journal of Health and Rehabilitation Sciences, 1 (1). pp. 25-31.
4. E. Archana, PriyaPai, Bhavya K. Prabhu, Revathi P. Shenoy, Krishnananda Prabhu, Anjali Rao. Altered Biochemical Parameters in Saliva of Pediatric Attention Deficit Hyperactivity Disorder Neurochemical Research. February 2012, Volume 37, Issue 2, pp 330-334
5. HariPrakash, Krishnananda Prabhu, KaileshPoojari, Bhavya Prabhu, Rimshida Malik, Anjali Rao. Pilot study of salivary butyrylcholinesterase, phosphodiesterase, thiols and cerulopalsmin in auditory neuropathy.

- [http://dx.doi.org/10.1016/S2222-1808\(12\)60205-9](http://dx.doi.org/10.1016/S2222-1808(12)60205-9), Asian Pacific Journal of Tropical Disease, Volume 2, Supplement 1, 2012, Pages S471–S474
6. Nayak G, Kamath A, Kumar P, Rao A. A study of quality of life among perimenopausal women in selected coastal areas of Karnataka, India. *J Mid-life Health* [serial online] 2012 [cited 2013 Jan 6];3:71-5. Available from: <http://www.jmidlifehealth.org/text.asp?2012/3/2/71/104456>
  7. Shiefa Sequeira<sup>1</sup>, Ashalatha V. Rao, Anjali Rao. Increased oxidative stress and altered antioxidants status in patients with chronic allergic rhinitis. *Advances in Bioscience and Biotechnology*, 2012, 3, 951-956 ABB doi:10.4236/abb.2012.327117. Published Online November 2012 (<http://www.SciRP.org/journal/abb/>)
  8. Virupaksha Devaramane<sup>1</sup>, Panambur V Bhandary<sup>1</sup>, Harini Ramanan<sup>2</sup>, Ann T Thomas<sup>2</sup>, Amrita Rishi, Harisha Kasturi<sup>2</sup>, Mukund P Srinivasan<sup>2</sup>, Chethan A Jaiprakash<sup>2</sup>, Safiulla B Syed<sup>2</sup>, Puneeth H Somashekar<sup>2</sup>, Mungli Prakash<sup>2</sup>, Veena Nayak<sup>3</sup>. A Comparative Study between Yakshagana Artists and Healthy Controls for Antioxidant Markers and Liver Function Parameters. *International Journal of Health Sciences & Research* ([www.ijhsr.org](http://www.ijhsr.org)) 50 Vol.2; Issue: 1; April 2012. Pg50-55
  9. Prasad, Anushre and Kumar, Ritesh and Ramanan, Harini and Khandige, Nalini and Prabhu, Krishnananda (2012) Rhabdomyolysis due to multiple fire ant bites a case report. *Asian Pacific Journal of Tropical Disease*, 2 (5). pp. 417-418.
  10. Shenoy, Smita and Kumar, Hemanth and Thashma, \* and Nayak, Veena and Prabhu, Krishnananda and Pai, Priya and Warriar, Indu and Somayaji, \* and Madhav, Venu and Bairy, KL and Kishore, Anoop (2012) Hepatoprotective activity of *Plectranthusamboinicus* against paracetamol induced hepatotoxicity in rats. *International Journal of Pharmacology and Clinical Sciences*, 1 (2). pp. 32-38.
  11. Maradi, Ravindra (2012) Serum Ceruloplasmin Albumin Ratio as a Biochemical Marker to Assist the Diagnosis, Treatment and Prognosis of Pulmonary Tuberculosis Patients. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 3 (2). pp. 494-499. ISSN 0975-8585
  12. Shetty, Jeevan K and Bhagavath, Prashantha and Natarajan, Archana and Shivananda, Ranjini H and Shedthi, Suhasini (2012) Comparison between lipid profile and atherogenic index of plasma (AIP) in alcoholic and non-alcoholic diabetic patients in Mangalore, Southern India. *International Journal of A J Institute of Medical Sciences*, 11 (1). pp. 10-14.
  13. Mayya Arun, G and Dixit, Snehil and Udupa, P and Rao, Laxmi (2012) Photo Stimulatory and Photo Inhibitory Effect of Low Level Laser Therapy in Diabetic Wound Healing Dynamics- Preclinical Study. *International Journal of Health Sciences*, 2 (2). pp. 8-14. ISSN 2249-9571
  14. Gupta, Yogesh Kumar and Prasad, Anushre and Kini, Pushpa and Naik, Prashant and Choprra, Deepti and Prabhu, Krishnananda (2012) Case Report on an Infant

- Presenting with Hypoglycemia, and Milky Serum. Asian Pacific Journal of Tropical Biomedicine, 2 (4). pp. 331-332.
15. Khanna, Vinay and Bairy, Indira and Maradi, Ravindra and Khanna, Ruchee and Vishwanath, Shashidhar and Sathyanarayanachar, Manjunath (2012) Cross sectional study of Symptomolgy among Patients with Recent and Established HIV-1 Infecton -. JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL SCIENCES, 23 (23). pp. 1-4.
  16. Prasad, Anushre and Rao, Namita (2012) Erythrocyte glutathione system and plasma protein oxidation in thyroid dysfunction. International Journal of Comprehensive Pharmacy, 3 (1). pp. 1-4. ISSN 0976-8157
  17. Varghese, Jyothi M and Bhat, Vinutha and Bhat, GS and Rao, Namita (2012) Evaluation of Glutathione-S-transferase and Ceruloplasmin levels in gingival crevicular fluid and gingival tissue as diagnostic markers for chronic periodontitis. Advances in Bioscience and Biotechnology, 3. pp. 437-441.
  18. Saleena, UV and Athiyaman, MS and Vadhiraja, BM and Donald, F and Prabhu, R and Nalini, K (2012) Evalution of urinary tubular enzymes for the detection of early kidney injury due to cisplatin chemotherapy. International Journal of Biological & Medical Research, 3 (3). pp. 2241-2246. ISSN 0976 -6685
  19. Bose, Rohini and Adiga, Satish K and D'souza, Fiona and Salian, Sujith R and Uppangala, Shubhashree and Kalthur, Guruprasad and Radhakrishnan, Raghu A and Bhat, Nalini and Kumar, Pratap (2012) Germ cell abnormalities in streptozotocin induced diabetic mice do not correlate with blood glucose level. Journal of Assisted Reproduction and Genetics. ISSN 1058-0468
  20. Ballal, Mamatha and Devadiga, Savithri and Shenoy, Revathi P (2012) Inhibition of Methicillin Resistant Staphylococcus Aureus by Botanical Extracts of Waga tea Spicata. International Journal of Pharmacy and Pharmaceutical Sciences, 4 (2). pp. 533-535. ISSN 0975-1491
  21. Shermin Karim<sup>1</sup>, Pratibha P. K.<sup>2</sup>, Shobha Kamath<sup>3</sup>, G. Subraya Bhat<sup>2</sup>, Ullas Kamath<sup>4</sup>, Babi Dutta<sup>5</sup>, Naveen Sharma<sup>6</sup>, B. Archana<sup>3</sup>, K. Mahalinga Bhat<sup>2</sup>, VasudevGuddattu. Superoxide dismutase enzyme and thiol antioxidants in gingival crevicular fluid and saliva. Dental Research Journal May 2012 / Vol 9 / Issue 3
  22. VinayKhanna, Indira Bairy and RavindraMaradi. Comparision between Avidity test and Detuned ELISA test in detecting the recent and established HIV-1 infection. International Journal of Pharma and Bio Sciences.Int J Pharm Bio Sci 2012 Oct; 3(4): (B) 865 - 873 (<http://www.ijpbs.net/current-issue.php>)

#### **NATIONAL PUBLICATIONS 2012**

1. Afshan Rafi, Ramakrishna Devaki, K. Sabitha, ShrutiMohanty, Pragna Rao.Importance of Serum Copper and Vascular Endothelial Growth Factor (VEGF-A) Levels in Postmenopausal Bleeding. Indian Journal of Clinical

Biochemistry© Association of Clinical Biochemists of India 201210.1007/s12291-012-0240-9, June2012

2. Kumar, Pramod and Honnegowda, TM and Udupa, Padmanabha EG and Rao, Pragna and Saran, Anurag and Bhandari, Siddharth (2012) The role of matrix metalloproteinase in the chronic wound healing. *Journal of SWCR* , 5 (1). pp. 7-16.
3. Prasad, Anushre and Kumar, Ritesh and Ramanan, Harini and Nalini, Khandige and Prabhu, Krishnananda (2012) A Case of Flax Seed Induced Rhabdomyolysis. *Journal of Clinical and Diagnostic Research*, 6 (10). pp. 1770-1771.
4. Vijayalakshmi, and Adiga, Shalini and Bhat, Priyanka and Chaturvedi, Abhishek and Bairy, KL and Kamath Shobha (2012). Evaluation of the effect of *Ferula asafoetida* Linn. gum extract on learning and memory in Wistar rats. *Indian Journal of Pharmacology*, 44 (1). pp. 82-87.
5. Chakrabarty, Mrinmoy and Bhat, Priyanka and Kumari, Sweta and D'Souza, Avin and Bairy, KL and Chaturvedi, Abhishek and Natarajan, Archana and Rao, Mohandas KG and Kamath Shobha (2012). Cortico-hippocampal salvage in chronic aluminium induced neurodegeneration by *Celastrus paniculatus* seed oil: Neurobehavioural, biochemical, histological study. *Journal of Pharmacology and Pharmacotherapeutics*, 3 (2). pp. 161-171.
6. Ummer, Saleena V and Athiyamaan, MS and Vadhiraja, BM and Prabhu, Raveendra and Nalini, K (2012) Urinary  $\alpha$ - Glutathione-s-transferase variations in cisplatin treated cancer patients with and without kidney injury. *IPCBE*, 31. pp. 27-31.
7. Rao NM, Udupa EGP . (May 2012) Purification and characterization of ram Epididymal angiotensin Converting Enzyme. *Jour of Med Sc& Tech*; 1(2); pp 32-42; Issn 1694-1217

### **PUBLICATIONS 2013**

#### **International 2013**

1. Nayak, Veena and Adiga, S and Poornima, BM and Sharma, R and Garg, A and Shetty, M and Kamath, S and Hegde, M and Koshy, SS (2013) Effect of chronic administration of atorvastatin, simvastatin and lovastatin on animal models of epilepsy. *International Journal of Current Research*, 5 (19). pp. 61-65.
2. Kumar, Alok and Archana, E and Pai, Akshatha C and Nayak, Gayathry and Shenoy, Revathi P and Rao, Anjali (2013) Serum mineral status and climacteric symptoms in perimenopausal women before and after Yoga therapy, an ongoing study. *Journal of Mid-life Health*, 4 (4). pp. 225-229. ISSN 0976-7800
3. Kalludi, Shivananda N and Maradi, Ravindra and Dhar, Murali and Babu, Raghaavendra and Sathyanarayanachar, Manjunath (2013) Introducing Physiology Practical Demonstration in Course Curriculum for First Year Nursing Students. *Journal of Clinical and Diagnostic Research*, 7 (9). pp. 1989-1991.
4. Choudhry, Afreen Arshad and Prabhu, Krishnananda (2013) An Association of High Sensitive C Reactive Protein and Lipid Profile Parameters in South Indian



- Population. International Journal of Scientific and Research Publications, 3 (7). pp. 1-3. ISSN 2250-3153
5. Choudhry, Afreen Arshad and Prabhu, Krishnananda (2013) An Association of High Sensitive C Reactive Protein and Lipid Profile Parameters in South Indian Population. International Journal of Scientific and Research Publications, 3 (7). pp. 1-3. ISSN 2250-3153
  6. Vanishree, B and Sharma, Vivek and Nagalakshmi, Y and Nayak, Veena (2013) Cross-sectional study to know the prevalence of liver dysfunction, anemia and metabolic syndrome in the Koraga community in Udupi district of South Karnataka, India. International Journal of the A.J. Institute of Medical Sciences, 2 (1). 03-12.
  7. Mallya, Madhukar H and Shenoy, Revathi P and Kodyalamoole, Gopalkrishna and Biswas, Monalisa and Karumathil, Jisha and Kamath, Sudha D (2013) Absorption Spectroscopy for the Estimation of Glycated Hemoglobin (HbA1c) for the Diagnosis and Management of Diabetes Mellitus: A Pilot Study. Photomedicine and Laser Surgery, 31 (5). pp. 219-224.
  8. Rao, Pragna (2013) Angiotensin-converting Enzyme Gene Insertion/deletion Polymorphism Studies in Asian Indian Pregnant Women Biochemically Identifies Gestational Diabetes Mellitus. Journal of the Renin-Angiotensin- Aldosterone System. pp. 1-6.
  9. Deb, Debasree and Nayak, Veena and Bairy, KL and Rao, Mohandas KG and Shetty, Jeevan and Hegde, Mangala V and Koshy, Salini S (2013) Antiamnesic and Neuroprotective Effects of Low Dose of Ramipril and Losartan in Scopolamine-Induced Amnesia Model of Dementia. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 4 (1). pp. 1174-1182. ISSN 0975-8585
  10. Khan, Diwan Mahmood and Bernaitis, L and Shobha, KL and Ashok, M and Shenoy, Revathi P (2013) Antifungal Activity of taxus Baccata, Pphyllanthus debilis, Plectranthus Amboinicus against Candida species of Clinical Origin. International Journal of Biological & Pharmaceutical Research, 4 (5). pp. 386-389. ISSN 0976 - 3651
  11. Bernaitis, L and Shobha, KL and Ashok, M and Shenoy, Revathi P and Mathew, Jiji and Khan, Diwan Mahmood (2013) Comparative evaluation of the antimicrobial activity of ethanol extract of taxus baccata phyllanthus debilis, plectranthus amboinicus against multi drug resistant bacteria. International Journal of Pharmaceutical Sciences and Research, 4 (8). pp. 3147-3151. ISSN 0975-8232
  12. Bernaitis, L and Shenoy, Vishnu Prasad and Ashok, M and Nath, Mithun and Shenoy, Revathi P (2013) Effects of Selective Medicinal Plants Against Multi Drug Resistance Mycobacterium Tuberculosis Strains. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 4 (3). pp. 812-817. ISSN 0975 - 8585



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14. Rao, Guruprasad (2013) Faculty Perception Of PBL Curriculum in Melaka Manipal Medical College, Manipal,India. *International Journal of Applied Biology and Pharmaceutical Technology* , 4 (2). pp. 105-111. ISSN 0976-4550
15. Ketki, Khandhadiya and Prabhu, Krishnananda and Shivashankara, KN and Rao, Pragna (2013) Hyponatraemia Induced HyperCKaemia. *BMJ Case Report*.
16. Rao, Pragna (2013) IGF2 ApaI A/G Polymorphism Evaluated in ESRD Individuals as a Biomarker to Identify Patients with New Onset Diabetes Mellitus after Renal Transplant in Asian Indians. *Open Journal of Nephrology*, 3. pp. 104-108.
17. Rao, Pragna (2013) Influence of gene polymorphism on the pharmacokinetics of calcineurin inhibitors: In renal transplant patients from India. *International Research Journal of Pharmacy and Pharmacology*, 3 (1). pp. 9-15. ISSN 2251-0176
18. Bambrana, Vanishree and Nagalakshmi, Y and Archana, Natarajan and Sharma, Vivek and Chaturvedi, Abhishek and Shetty, Jeevan K and Nayak, Veena (2013) Oxidative stress in schizophrenia patients with and without diabetes mellitus. *Asian Journal of Biomedical and Pharmaceutical Sciences*, 3 (18). pp. 29-32. ISSN 2249-622X
19. Bagheri, Azadeh and Chianeh, Yousef Rezaei and Rao, Pragna (2013) Role of Angiogenic Factors in Recurrent Pregnancy Loss. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*, 2 (4). 497 -502. ISSN 2320 - 1789
20. Chianeh, Yousef Rezaei and Prabhu, Krishnananda and Rashmi, M and Fernandes, Donald J (2013) Significance of Salivary Phosphodiesterase Level in Oral Squamous Cell Carcinoma Patients. *International Journal of Research in Medical Sciences*, 1 (4). pp. 417-420. ISSN 2320 - 6012
21. Malagi, KJ and Adiga, Shripathi H and Rao, Anjali and Shenoy, Revathi P and Kamath, Madhusudhan (2013) A prospective Single Arm Open Pilot Trial to Study the Antioxidant Property of Ayurvedic Massage Therapy in Healthy Individuals. *International Journal of Pharmacology and Clinical Sciences* , 2 (4). pp. 121-125.
22. Kumar, Pramod and Honnegowda, TM and Udupa, Padmanabha EG and Rao, Pragna and Saran, Anurag and Bhandari, Siddharth and Ramchandra, Ravi (2013) The role of nitric oxide in chronic and acute wound healing. *Journal of SWCR*, 6 (1). pp. 14-23. ISSN 2229-3221

### **National 2013**

1. Shenoy, Vijetha and Prabhu, Krishnananda and Shetty, Ranjan and Rao, Pragna (2013) Correlation of Serum Homocysteine Levels with the Severity of Coronary Artery Disease. *Indian Journal of Clinical Biochemistry*. ISSN 0970-1915

2. Rao, Pragna (2013) Role of Copper and Vascular Endothelial Growth Factor (VEGF) on Endometrial Angiogenesis. *Journal of Krishna Institute of Medical Sciences University*, 2 (2). pp. 6-17. ISSN 2231-4261
3. Pai, Kirtana M and Chetan, S and Rao, Prakasa J and Kumar, Ritesh and Kumar, Vikas and Kumar, Rishikesh (2013) Gum Arabic Enhances Paracellular Transport of Water in Amphibian Everted Small Intestinal Segments. *Indian Journal of Physiology and Pharmacology*, 57 (2). pp. 195-198.
4. Chakrabarty, Jyothi and Fernandes, Donald J and Bhat, Vinutha and Nagalakshmi, \* and Joisa, Ganapathi and Mayya, Shreemathi S (2013) Effectiveness of Pranayama on The Levels of Serum Protein Thiols and Glutathione in Breast Cancer Patients Undergoing Radiation Therapy : A Randomized Controlled Trial. *Indian Journal of Physiology and Pharmacology*, 57 (3). pp. 225-232.
5. Chianeh, Yousef Rezaei and Rashmi, Manjunath and Prabhu, Krishnananda and Fernandes, Donald J and Vidyasagar, MS and Kamath, Asha (2013) Protein Thiols and Butyrylcholinesterase in Saliva of Oral Cancer Patients. *Indian Journal of Clinical Biochemistry*. ISSN 0974-0422

## **PUBLICATIONS 2014**

### **International 2014**

1. Gowda, Amoolya and Shanbhag, Venkatesh and Rao, Eesha Bangalore and Shenoy, Smita and Prabhu, Krishnananda and Shanbhag, Tara V (2014) The wound healing property of ethanolic extract of *Michelia champaca* flowers in diabetic rats. *International Journal of Basic & Clinical Pharmacology*, 3 (6). pp. 1036-1042. ISSN 2319-2003
2. Shetty, Manjunath and Parida, Amrita and Adiga, Shalini and Kamath, Shobha and Sowjanya, \* (2014) Effect of ethanolic extract of *Acacia auriculiformis* leaves on learning and memory in rats. *Pharmacognosy Research*, 6 (3). pp. 246-250. ISSN 0976-4836
3. Datta, Priyanka and Shenoy, Vijetha Belle and Singh, Kriti and Prabhu, Krishnananda (2014) High HbA1C in anemic patients: Is hypovitaminosis D that link? *Nigerian Journal of Experimental and Clinical Biosciences* , 2 (2). pp. 105-108.
4. Satyam, Shakta Mani and Bairy, KL and Rao, Mohandas KG and Nath, Mithun (2014) Grape seed extract and Zinc containing multivitamin-mineral nutritional food supplement ameliorates hepatic injury. *Jokull Journal*, 64 (6). pp. 184-195. ISSN 0449-0576
5. Karanth, Suman and Prabhu, Ravindra and Bairy, Manohar and Nagaraju, Shankar Prasad and Bhat, Ashok and Kosuru, Srinivas and Parthasarathy, Rajeevalochana and Kamath, Shobha and Prasad, Hemanth K and Kallurwar, Kapil P (2014) Intravenous iron sucrose and oxidative stress in chronic kidney disease stage 4 and 5. *Nephrology Dialysis Transplantation*, 29 (3). pp. 145-146.

6. Prabhu, Krishnananda and Malik, Rimshida and Pai, Priya and Gayathri, S and Rao, Anjali and Bhaskaranand, Nalini (2014) Role of renoprotective therapy on antioxidant status in children with nephrotic syndrome. *Journal of international academic research for multidisciplinary*, 2 (4). pp. 576-581. ISSN 2320-5083
7. Prabhu, Krishnananda and Maradi, Ravindra and Datta, Priyanka and Shenoy, Vijetha and Kamath, Asha and Rao, Pragna (2014) What qualities a mentor should have to do effective mentoring? students perspective. *Asian Academic Research Journal of Social Sciences & Humanities*, 1 (23). pp. 20-24. ISSN 2278 – 859X
8. Gupta, Mrinal and Prabhu, Krishnananda and Rao, Pragna (2014) Spuriously Elevated HbA1c Result. *International Journal of Scientific and Research Publications*, 4 (2). pp. 1-2. ISSN 2250-3153
9. Rao, Pragna (2014) Alcoholism and Its Role in the Development of Oxidative Stress and DNA Damage: An Insight. *American Journal of Medical Sciences and Medicine*, 2 (3). pp. 64-66.
10. Shobha, KL and Bernaitis, L and Akshatha, SJ and Shenoy, Revathi P and Ramachandra, L (2014) Antibacterial Activity of Selected Siddha herbo-mineral Preparations Against Clinically Isolated Enterococcus Species. *International Journal of Pharmacology and Toxicology*, 2 (2). pp. 38-40.
11. Prabhu, Krishnananda (2014) Biochemical markers in saliva of patients with oral squamous cell carcinoma. *Asian Pacific Journal of Tropical Disease*, 4 (Supl-1). S33-S40.
12. Prabhu, Krishnananda and Sharma, Devesh and Shenoy, Vijetha Belle and Gyawali, Prabin and Thakur, Rajesh Kumar (2014) Diabetes with Complication- scope of Serum Ceruloplasmin as a Biomarker. *Journal of International Academic Research For Multidisciplinary*, 2 (5). pp. 841-846.
13. Rao, Pragna (2014) Effect of anti-Thyroperoxidase on thyroid gland and breast tissue: A comprehensive review. *American Journal of Medicine Studies*, 2 (2). pp. 34-37.
14. Bhat, Vinutha R and Nayak, Shivananda B and Ballal, Mamatha and Baliga, Shivananda B (2014) Evaluation of Phytochemical and Antimicrobial Properties of Heart Wood of *Pterocarpus Marsupium Roxb* (fabaceae). *World Journal of Pharmaceutical Research*, 3 (6). pp. 1454-1458. ISSN 2277 – 7105
15. Koppal, Anand and Praveen, SE and Shanbhag, Tara and Kushal, Ankita and Mathew, Don and Shenoy, Smita and Patil, Navin A (2014) Evaluation of effect of ethanolic extract of *phyllanthus debilis* on antitubercular drugs induced hepatotoxicity in wistar rats. *World Journal of Pharmaceutical Research*, 3 (4). pp. 1997-2003. ISSN 2277 – 7105
16. Bhat, Vinutha and Ballal, Mamatha and Baliga, Shivananda (2014) Evaluation of phytochemical and antimicrobial properties of heart wood of *pterocarpus marsupium roxb* (fabaceae). *World Journal of Pharmaceutical Research*, 3 (6). ISSN 2277 – 7105

17. Shenoy, Vijetha and Singh, Kriti and Prabhu, Krishnananda and Datta, Priyanka and Varashree, BS (2014) Evaluation of usefulness of pleural fluid adenosine deaminase in diagnosing tuberculous pleural effusion from empyema. *Asian Pacific Journal of Tropical Disease*, 4 (Supl-1). S411-S414.
18. Rao, Pragna (2014) Evidence for the presence of somatic mitochondrial DNA mutations in right atrial appendage tissues of coronary artery disease patients. *Molecular Genetics and Genomics*. pp. 1-2. ISSN 1617-4615
19. Shenoy, Smita and Kamathan, Praveen and Azhar, Mohammed and Raghsvendra, \* and Prabhu, Krishnananda and Hegde, Shraddha and Amberkar, Mohanababu (2014) Hepatoprotective Activity of Ethanolic extract of *Plectranthus Amboinicus* Against Antitubercular Drugs induced Hepatotoxicity in Wistar rats. *International Journal of Innovative Pharmaceutical Sciences and Research*, 2 (6). pp. 1027-1033. ISSN 2347-2154
20. Datta, Priyanka and Rao, Pragna (2014) High Sensitivity Troponin T as a Marker of Silent Myocardial Injury in Diabetics. *European Journal of Cardiovascular Medicine*, 3 (1). pp. 312-316. ISSN 2042-4884
21. Rao, Pragna (2014) Investigation of Calpain 10 (rs2975760) gene polymorphism in Asian Indians with Gestational Diabetes Mellitus. *Meta Gene*, 2. pp. 299-306. ISSN 2214-5400
22. Prabhu, Krishnananda (2014) Juvenile diabetes an overview. *IQRA Magazine of Tenepoya University*. pp. 10-11.
23. Chianeh, Yousef Rezaei and Rao, Pragna (2014) Molecular and Hormonal Regulation of Angiogenesis in Proliferative Endometrium. *International Journal of Research in Medical Sciences*, 2 (1). pp. 1-9. ISSN 2320 - 6012
24. Thomas, Jenu Maria and Shenoy, Revathi P and Bhat, Parvati V and Rao, Pragna (2014) Pathophysiology of Preeclampsia and Possible Role of Zinc in its Genesis. *Current Women's Health Reviews*, 10 (1). pp. 38-42. ISSN 1875-6581
25. Choudhry, Afreen Arshad and Rajeshwari, SG and Gururaja, Arpitha and Prabhu, Krishnananda and Ravishankar, N (2014) Retrospective correlation of fasting glucose and glycated hemoglobin with serum electrolytes, urea and creatinine in diabetic patients. *Asian Pacific Journal of Tropical Disease*, 4 (Supl-1). S385-S388.
26. Kamath, Saritha U and Bhaskaranand, Nalini and Rao, Anjali (2014) Role of early intervention in a family of affected siblings with suspected mitochondrial disorder. *World Journal of Pharmaceutical Research*, 3 (2). pp. 2226-2231. ISSN 2277 – 7105
27. Rao, Pragna and Gupta, Mrinal and Datta, Priyanka and Hegde, Shraddha and Shetty, Jeevan K and Vidyasagar, Sudha (2014) Serum Malondialdehyde Levels & Paraoxonase Activity as Markers of Atherogenicity in Normotensive type 2 Diabetics. *Journal of International Academic Research for Multidisciplinary*, 2 (6). pp. 99-104. ISSN 2320-5083

28. Kamath, Saritha U and Bhaskaranand, Nalini and Rao, Anjali (2014) 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). pp. 34-38. ISSN 2249-622X
29. Madan, Sumanth and Kumari, Meena K and Choudhry, Afreen Arshad and Kamath, Suhasini and Kamath, Asha and Amberkar, Mohan babu V and Rao, Pragna and Magazine, Rahul and Ramanathan, Rudra (2014) The effect of hyperlipidemic state on urine expression of rifampicin and its association with pulmonary tuberculosis-a prospective pilot study. *International Journal of Pharmacy and Pharmaceutical Sciences*, 6 (7). pp. 99-102. ISSN 0975-1491

#### **National 2014**

1. Honnegowda, Thittamaranahalli Muguregowda and Kumar, Pramod and Udupa, Padmanabha and Rao, Pragna and Bhandary, Siddhartha and Mahato, Krishna Kumar and Sharan, Anurag and Mayya, Shreemathi S (2014) Effect of limited access dressing on hydroxyproline and enzymatic antioxidant status in nonhealing chronic ulcers. *Indian Journal of Plastic Surgery* , 47 (2). pp. 216-220.
2. Datta, Priyanka and Prasad, Anushre and Shenoy, Vijetha Belle and Hebbar, Shrikiran A and Mundkur, Suneel C and Rao, Pragna (2014) A Case of Sanfillippo's Disease Correlating Clinical and Biochemical Findings. *Indian Journal of Clinical Biochemistry*. pp. 3-6. ISSN 0970-1915
3. Rajeshwari, SG and Choudhry, Afreen Arshad and Prasad, Anushre and Lewis, Leslie and Shenoy, Revathi P and Rao, Pragna (2014) Short Chain Acyl Co-A Dehydrogenase Deficiency A Rare Inborn Error Of Metabolism. *National Journal of Integrated Research in Medicine*, 5 (1). pp. 125-127. ISSN 0975 - 9840
4. Shenoy, Vijetha and Datta, Priyanka and Prabhu, Krishnananda and Singh, Kriti (2014) Association between Vitamin D, Fasting Blood Glucose, HbA1c and Fasting Lipid Profile in Euglycemic Individuals. *Journal of Research in Diabetes*, 2014. pp. 1-8.
5. Ravindranath, Vineetha and Pai, Keerthilatha M and Gopalakrishna, K and Narayanakurup, Dinesh (2014) Usefulness of salivary alpha amylase as a biomarker of chronic stress and stress related oral mucosal changes – a pilot study. *Journal of Clinical and Experimental Dentistry*, 6 (2). e132-e137. ISSN 1989-5488
6. Rajeshwari, SG and Choudhry, Afreen Arshad and Gururaja, Arpitha and Prabhu, Krishnananda (2014) Correlation of plasma lipid profile with salivary oxidative stress markers in type II diabetes mellitus Patients. *Journal of Clinical and Diagnostic Research*, 8 (6). CC08-CC10. ISSN 0973-709X



## Conference Presentations

### 2012

1. Dr. Revathi P Shenoy presented “Effect of hypothyroidism on lipid metabolism” at 5th Annual Conference on Genetic and Molecular Diagnosis in Modern Medicine 2012, held at SRM University from 26th to 30th Jan 2012
2. Dr. Pragna Rao, Dr. RevathiShenoy, Dr. Krishnananda Prabhu, Vinutha R Bhat - presented “Innovation in undergraduate spotter examination” in South East Asian International and Indian National Conference on Health Professions Education, SEARAME NCHPE 2012 at PSG Institute of Medical Sciences & Research, Coimbatore, India. 6th – 8th September 2012
3. Dr. Varashree presented a paper on “Study of serum E-selectin levels in cardiovascular disorders in Udupi district”. SaliniShereenKoshy, Sumanth H.D, Namita Rao, Varashree B.S, Pragna Rao. 39th annual conference of association of clinical biochemists of india (ACBICON)- 2012 held on 11- 14th dec 2012 at Khelgaon, Ranch
4. Dr. RavindraMaradi - Attended and presented a poster titled “Effect of serum copper concentration and ceruloplasmin on lipid parameters leading to increased propensity to cardiovascular risk” at 11th APAMT2012( Asia Pacific Association of Medical Toxicology) from November 29th to December 1st 2012 at Hongkong.
5. Dr. Anushre Prasad, presented Poster titled “Approach To Challenges In Establishing Inborn Errors Of Metabolism Laboratory” at 5th Annual Conference on Genetic and Molecular Diagnosis in Modern Medicine 2012 in January, 2012 held at SRM University, Chennai, India
6. Dr. Anushre Prasad, presented Poster titled “Methylmalonicacidemia; early diagnosis and treatment: A Case Report” at the Indo-US symposium on Disorders of the Developing Brain held in October, 2012 at Manipal University, Manipal
7. Dr. Krishnananda Prabhu - Attended and presented a poster titled “Comparison of pre and post radio therapy butyrylcholinesterase levels in oral cancer” at 11th APAMT2012( Asia Pacific Association of Medical Toxicology) from November 29th to December 1st 2012 at Hongkong.

### 2013

1. John, Pamala and Mohapatra, Nirupam and Gopalakrishna, K and Nalini, K and Shivasankar, K (2013) Comparative study of Fructosamine and HbA1c in the assessment of Glycemic Status. In: 40th National Conference Association of Clinical Biochemists of India ACBICON 2013, 5th Dec 2013, New Delhi, India. (Submitted)
2. Prabhu, Krishnananda and Shenoy, Vijetha (2013) Correlation of adenosine deaminase activity in cerebrospinal fluid with CD4 count in HIV positive patients suffering from tuberculous meningitis. In: International Conference on Forensic

- Sciences, 08-09 Jul 2013, London, UK. (Submitted)
3. Mohapatra, Nirupam and John, Pamala and Shenoy, Revathi P and Varashree, BS and Adiga, Sripathi (2013) Panchakarma treatment- A rejuvenation. In: 40th National Conference Association of Clinical Biochemists of India ACBICON 2013 , 4th Dec 2013, New Delhi India. (Submitted)
  4. Mohapatra, Nirupam and John, Pamala and Prasad, Anushre and Nayak, Dinesh and Shenoy, Revathi P and Rao, Pragna (2013) A case report on hartnup disease. In: International conference on Inborn Errors of Metabolism & 2nd National Conference of ISIEM, 5th April 2013, New Delhi, India. (Submitted)
  5. John, Pamala and Mohapatra, Nirupam and Prasad, Anushre and Hebbar, Shrikiran and Rao, Pragna (2013) A case report on mucopolysaccharidosis-hunters disease. In: International conference on Inborn Errors of Metabolism & 2nd National Conference of ISIEM, 6th April 2013, New Delhi, India. (Submitted)
  6. Pushkal S R, Suhasini Kamath (M.Sc Students) Title : COMPARISON OF PLASMA, SALIVARY AND URINARY PSEUDACHOLINESTERASE ACTIVITY IN ORAL CANCER, GUIDE : Krishnananda Prabhu, CO GUIDE : Donald J Fernandes, Prakash Saxena. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  7. Suhasini Kamath,Pamala John, Nirupam Mohapatra ,Title-CORRELATION OF SERUM MAGNESIUM WITH CARDIAC MARKERS IM PATIENTS WITH MYOCARDIAL INFARCTION; Guide: Revathi shenoy,Nalini K, Varashree B S. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  8. Arpitha Gururaja, Afreen A Choudhry, Rajeshwari S G, Komal Smriti. Title: Estimation Of Fasting Glucose In Type 2 Diabetes Millitus Patients & its Relationship With Fasting Blood Glucose Level. GUIDE : Krishnananda Prabhu, CO GUIDE : Keerthilatha M Pai. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  9. Afreen A Choudhry, Rajeshwari S G, Arpitha Gururaja, Komal Smriti. Title : Assesment of oxidative stress in saliva of type 2 Diabetes Millitus patients. GUIDE: Krishnananda Prabhu, CO GUIDE: Keerthilatha M Pai. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  10. Rajeshwari S G, Arpitha Gururaja, Afreen A Choudhry, Komal Smriti. Title : Assesment of anti-oxidant status in the saliva of type 2 Diabetes Millitus patients. GUIDE : Krishnananda Prabhu, CO GUIDE : Keerthilatha M Pai. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  11. Priyanka P C, Title : Comparitive evaluation of serum cystatin c and creatinine in



- cancer patients receiving chemotherapy. GUIDE: Nalini K, CO GUIDE: Saleena U V. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
12. Sowjanya, Title : The effect of ethanolic extract of acacia auriculiformis leaves on learning and memory in rats and estimation of acetylcholinesterase activity in rat brain tissue. GUIDE : Shobha U Kamath, CO GUIDE : Ajitha. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  13. Nirupam Mohapatra, Pamala John, Title : Panchakarma treatment : A rejuvenation? GUIDE : Revathi P Shenoy, CO GUIDE : Sripathi Adiga, Varashree BS, Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  14. Nirupam Mohapatra, Pamala John, Title: A case report on Hartnup's disease, GUIDE : Anushree Prasad, CO GUIDE: Revathi P Shenoy, Conference: "2nd Conference on Inborn Errors of Metabolism (IEMCON) from 4th - 8th April, 2013 at "Auditorium, Dr. R.M.L. Hospital & PGIMER" New Delhi.
  15. Pamala John, Nirupam Mohapatra, Title: Comparative study of fructosamine and HbA1c in the assessment of glycemic status, GUIDE: Nalini K, CO GUIDE: Gopalakrishna K, Shivshankar K. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  16. Pamala John, Nirupam Mohapatra, Title: A case report on Mucopolysaccharidoses. GUIDE : Anushree Prasad, Conference: "2nd Conference on Inborn Errors of Metabolism (IEMCON) from 4th - 8th April, 2013 at "Auditorium, Dr. R.M.L. Hospital & PGIMER" New Delhi.
  17. Pramod Kumar Yadav, Chitrini Ghosal, Mamta Kandwal. Can Sodium valproate protect spatial learning deficits induced by pentylenetetrazole (PTZ) induced kindled epileptic rats? Guide: DrShobha U Kamath. Co Guide: Snehanthu Adhikari. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  18. Chitrini Ghosal, Pramod Kumar Yadav, Mamta Kandwal .Sodium valproate ameliorates brain oxidative stress in pentylenetetrazole (PTZ) induced chronic epilepsy in rats . Guide: DrShobha U Kamath. Co Guide: Snehanthu Adhikari. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.
  19. Ian Lasrado, Arpitha Gururaja, Rajeshwari S G . Prevailing serum Vitamin D levels among individuals in South Karnataka. Guide: Pragna Rao. Co Guide: Surekha Bhat. Conference : 40th ACBICON 2013 organized by Vardhman Mahavir Medical College (VMMC) & Safdarjung Hospital, New Delhi from 3-6 Dec 2013.

**2014**

1. Pushkal, SR and Shenoy, Vijetha Belle and Prabhu, Krishnananda (2014) Can high normal TSH level predispose to hypercholesterolemia? In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
2. Rajeshwari, SG and Choudhry, Afreen Arshad and Prabhu, Krishnananda (2014) Correlation of Insulin/C peptide ratio with HbA1C and plasma HDL in type ii diabetes mellitus patients. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
3. Sowjanya, \* and Priyanka, P and Prabhu, Krishnananda and Nalini, K (2014) Correlation of Serum Globulins and Lipid Profile. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
4. Pal, Sindu and Prabhu, Krishnananda and Shenoy, Vijetha (2014) Correlation of adenosine deaminase activity in cerebrospinal fluid with CD4 count in HIV positive patients suffering from tuberculous meningitis. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
5. Varashree, BS and Shenoy, Vijetha Belle and Prabhu, Krishnananda and Rao, Namita and Kumar, Pratap and Rao, Pragna (2014) Correlation of first trimester serum free beta HCG and PAPP-A levels with maternal BMI. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
6. Agarwal, Nupur and Musharraf, S and Anandh, Shabari JV and Amuthan, Arul and Devi, Vasudha and Shenoy, Revathi P (2014) Effect of the aqueous extract of vitex negundo on induced endometriosis in sprague dawley rats. In: Proceedings: 41st Annual Conference of Association of Clinical Biochemists of India (ACBICON 2014), 10-13 Dec 2014, Jodhpur.
7. Geeta, S and Kamath, Sethukumar M and Shenoy, Revathi P (2014) Evaluating the usefulness and efficacy of the ayurvedic drug- *Tinospora cordifolia* in human. In: In:"South Regional Conference of The Association of Clinical Biochemists of India - 2014", 22-23 May 2014, Kasturba Medical College, Mangalore.
8. Nalini, K and Ummer, Saleena V and Vadiraja, B and Prabhu, Ravindra R (2014) Evaluation of urinary il-18 as an early biomarker of kidney injury in cisplatin treated cancer patients. In: South Regional Conference of the Association of Clinical Biochemistry of India 2014, 22-23 May, 2014, KMC, Mangalore.
9. Prabhu, Krishnananda and Shenoy, V and Shetty, R and Singh, S and Datta, P and Rao, Pragna (2014) NT Pro BNP in assessing the severity of stable coronary artery disease. In: Australian Association Clinical Biochemist 52 nd Annual Scientific conference, 27th-29th Oct 2014, Adelaide, South Australia.
10. Ghoshal, Indranil and Prabhu, Krishnananda and Hebbar, Shrikiran (2014) Renal

tubular acidosis with extreme hypercalcemia- a case report. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.

11. Shenoy, Vijetha Belle and Prabhu, Krishnananda and Shetty, Ranjan K and Singh, Kriti and Datta, Priyanka (2014) Serum Myeloperoxidase and HDL-cholesterol in stable coronary artery disease. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
12. Menezes, Nympha Deena and Prabhu, Krishnananda and Naik, Divya and Ray, Satadru and Kamath, Asha (2014) Serum butyrylcholinesterase levels in Oral Squamous Cell Carcinoma. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.
13. Prabhu, Krishnananda and Naik, Divya and Ray, Satadru M and Vadiraj, \* and Rao, Anjali and Kamath, Asha (2014) Serum phosphodiesterase in prognosis of oral cancer. In: South Regional Conference of the Association of Clinical Biochemists of India, 23-24 May 2014, Kodailbail, Mangalore.

## 12.Placement record of the past students and the contribution of the department to aid students placements:

Names of MSc students	Job details	Year
Mr. Prashanth	Marketing Job Nicholas piramal .company Hubali division	2012
Mithun Nath	Rangadore hospital 1 <sup>st</sup> cross road , shankamapuram Basavanagudi, Bangalore- 560004	2012
Puja Singh	Vivek venkateshvariya hospital .college Sambalpur	2012
Ram mohan rao	Porumamilla post mandal Fathima medical college ( not yet decided)	2012
Mangala hegde	Ph.D National centre for cell science Pune	2012
Don Mathew	SN Medical college Jodhpur Rajasthan – 344001	2012
Sumanth HD	Project Trainer in Biocon India Pvt. Ltd Bangalore	2012
Salini Shereen Koshy	Beckman Coulter India Pvt.Ltd Application support Trainee Trivandrum	2012
Shraddha Hegde	Johnson & Johnson, B'lore	2013
Suhasini	Roche, Mumbai	2014
Arpita	Roche, Bangalore	2014
Aditya Baliga	Only Group, Bangalore	2015

## 12. Plan of action of the department for the next five years:

**The department's plan of action includes**

### **Academics:**

Introduction of OSPE in undergraduate MBBS and BDS curriculum: We have introduced formative and summative OSPEs in a phased manner. Post graduate students will be encouraged to participate in yearly seminar contests, e-poster presentations and quiz.

### **Faculty Development**

Annually at least three CMEs/Updates will be conducted for faculty and post graduate students. Of this eminent speakers invited from the diagnostic industry and commercial research organizations will help students plan for their future career.

### **Diagnostics :**

The department of Biochemistry is run by a group of experienced and talented doctors and faculty who provide diagnostic laboratory services to outpatients and inpatients. The laboratory is intended to serve as a referral laboratory for physicians of this hospital as well as for those practicing in the surrounding areas. Routine Biochemistry and specialized tests like hormones, tumor markers, vitamins and therapeutic drug monitoring is carried out on a daily basis. Approximately one lakh thirty thousand tests are handled by the laboratory every month. The laboratory is committed to maintaining the highest quality of performance using the latest technology and equipment that enables us to provide rapid and reliable results for the patient in the shortest turnaround time. Many Biochemistry faculty members have presented issues related to laboratory investigations in various television programs aired by local channels and also written articles in various newspapers published by the local media. A large number of inborn errors of metabolic (IEM) disorders in children remain undetected in India due to lack of investigative facilities and economic restraints. Lack of awareness about these IEM disorders in the people of this region of south India has motivated us to take up the challenge of starting the IEM laboratory. This is the only IEM lab in this district, catering to a population of about 50, 00,000. Patients from Kerala, Karnataka and Andhra Pradesh are also referred here for further investigations.

The Biochemistry department, along with the other lab departments are interconnected to the hospital by a Laboratory Information System (LIS) for speedier and accurate generation of reports. Samples are bar coded and fed into the equipment, which automatically performs the tests indicated by the bar code. The test results obtained are immediately transferred online to the doctor's desk after verifying the entries by a qualified consultant or a senior technician who have undergone training as internal auditors from NABL.

## PATHOLOGY

### 1. Faculty profile - adequacy and competency of faculty

There are 15 teaching faculty which meet the requirement for MBBS, BDS and post graduate training as per regulatory body requirement. All faculties are employed full time and are competent.

SINo.	Name	Qualification	Designation	Teaching Experience in years
1	Dr Manna Valiathan	MBBS, MD	Professor & Head	20
2	Dr RanjiniKudva	MBBS, MD	Professor	21
3	Dr ChetanManohar	MBBS, MD	Professor	19
4	Dr.Kanthilatha Pai	MBBS, MD	Professor	12
5	Dr Mary Mathew	MBBS, MD	Professor	17
6	Dr Geetha V	MBBS, MD	Additional Professor	15
7	Dr SushmaBelurkar V	MBBS. MD	Assoc. Prof.	12
8	Dr VidyaMonappa	MBBS, MD, DNB	Assoc. Prof.	9
9	DrPadmapriya	MBBS, MD	Assoc. Prof.	7
10	Dr.RucheeKhanna	MBBS, MD	Assoc. Prof.	7
11	Dr.Swati Sharma	MBBS, MD	Assoc. Prof.	6
12	Dr.BhavnaNayal	MBBS, MD	Assoc. Prof.	5
13	Dr.GauriSalgaonkar	MBBS, MD	Asst. Prof.	4
14	Dr Deepak Nayak M	MBBS, MD	Asst. Prof.	3
15	Dr.Dibakar Podder	MBBS	Tutor	-
16	Dr.Solanke Girish D	MBBS	Tutor	-
17	Dr Kavita Gupta	MBBS	Tutor	-
18	Dr Ayushi Agarwal	MBBS	Tutor	-
19	Dr Manjari Kishore	MBBS	Tutor	-
20	Dr Indira Shastry K.	MBBS	Tutor	-
21	Dr Akshatha N.	MBBS	Tutor	-
22	Dr.Raveendra G. Patil	MBBS	Tutor	-

Category	Sanctioned	Filled
Teaching staff	14	15
Tutors	08	32

- There are additional 24 tutors working in the department

## 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure No. HS 1 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 courses are governed by regulatory bodies like MCI and DCI .The syllabus is designed as per their guidelines. Minor modifications are made as per the approval of the Board of Studies in the meeting which is held every 6 months, where faculty from Manipal and Mangalore discuss the curriculum.

## 4. Trends in the success and drop out rates of students during the past two years

Year & Month of Examination	Success	Drop out
UG 2012 – December 2012	92.6%	Nil
UG 2013 – December 2013	97%	Nil
UG 2014 – December 2014	97.88%	Nil
PG 2012 – April	100%	Nil
PG 2013 – April	100%	Nil
PG 2014 –April	100%	Nil

## 5. Learning resources of the departments - library, computers, laboratories and other resources

The department has an air conditioned library with about 120 books and academic CDs for the use of faculty and students. All the faculty and students are provided with laptops by the university with wifi connection. Department has 5 desktop computers exclusively for the use of faculty for reference. Printer facility is available in the department for all the faculty. E-books and online journals are available for the faculty and postgraduate students

The department is fully air conditioned with spacious air conditioned practical laboratories for undergraduate students that accommodate 125 students. Each practical batch consists of 45 students. Each student is provided with separate workspace with individual microscopes and slide sets for study. The practical laboratory is equipped with Plasma TV for demonstration of slides and also LCD Projector. There are also air conditioned demonstration rooms of 125 capacity equipped with audiovisual aids like



LCD projectors to facilitate teaching and learning.

The Department also has a state of the art museum (MAP) which has 2 sections – a public section and a separate section for the students (Speci-centre) where morphologic changes of organs in diseases can be studied by comparing with the normal organs. The museum has a collection of 1400 specimen which is constantly updated with addition of new specimens and refurbishing of old specimen. The updated catalogue of specimen is available to students.

The department also has well equipped fully automated histopathology, cytology labs with fully automated instruments and grossing stations with exhaust facility to prevent exposure to formalin fumes. The postgraduates are provided with separate workstations and individual binocular microscope. The department has a well equipped hematology lab with fully automated machines and facility for Hemolytic workup and coagulation studies. The department has a ten headed microscope with plasma TV and a pentaheaded microscope (in the hematology section) for postgraduate teaching.

The department has adequate facilities for research. The patients reports and data are computerized for the last 15 years and can be retrieved for research. The pathology material is archived for the last 10 years and is available for research. The Department also has research lab with facility for Immunohistochemistry, Immunofluorescence and HLA typing and cross match.

#### **6. Modern teaching methods practiced and use of ICT in teaching – learning**

The teaching methodologies used are interactive lectures, small group teaching, demonstrations and interactive quiz. The lectures are made more interesting with case discussions, power point presentations and interaction with students. At the end of the chapter faculty are encouraged to conduct an interactive quiz for the students. Integrated teaching classes are conducted on a few selected topics where vertical and horizontal integration is done to give a broad overview of the subject.

#### **7. Participation of teachers in academic and personal counseling of students**

All faculty are engaged in teaching undergraduates and post graduates. Students are encouraged to clarify their doubts during the lecture or later.

Faculty of the department are teacher guardians each taking care of a group of 10 students. The faculty meet these students regularly and the students are free to meet their teacher guardians for any academic or personal problems they face in the campus.



Post graduates carry out regular diagnostic work under the supervision of faculty. They are assigned faculty with more than 9 years experience to guide in the dissertation work. Postgraduates are encouraged to do minor projects, present paper/poster in conference. They are also encouraged to publish papers in national and international journals under the guidance of faculty.

#### **8. Details of faculty development programmes and teachers who have been benefited during the past two years**

All faculty regularly attend faculty development programmes pertaining to teaching learning and evaluation. All faculty attend scientific programmes like conferences, workshops and CMEs. In the last 3 years faculty have attended around 60 such programmes.

#### **9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research**

All the faculty are actively involved in teaching Undergraduate and Postgraduate students. Faculty have developed a UG and PG log book in which a record of all academic activities is maintained. The department provides assistance and support to many other departments and institutions to carry out research projects.

#### **10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years**

Faculty are involved in research projects in collaboration with other departments. Faculty have jointly published scientific articles in various international/national indexed journals. The faculty of pathology assists faculty of other department in their publications by providing the diagnostic material in the form of slide/photo.

The Department of Pathology organized Neuropathology CME on July 20, 2013 and Haematopath CME 2014 on January 5, 2014

Clinicopathology meetings are held regularly in collaboration with clinical departments to discuss cases (Skin, Orthopaedics, Gynaecology, ENT departments).

#### **11. Priority areas for Research and details of the ongoing projects, important and publications of the faculty, during past two years**

**Ongoing**

Category	Number
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Funded Research projects	4
Non-funded research projects	0
PhD research projects	0
PG research projects	17
UG research projects	0

**Last 3 years (2010-2012)**

		2012	2013	2014
Completed funded research projects		2	0	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		5	6	6
Completed UG research projects		0	0	0
Publications	International	8	17	29
	National	16	43	25
Books		2	0	0
Chapters in books		0	0	0
Conference presentations	International	22	3	10
	National	8	6	7

**Completed projects:**

Sl.No	Title	Investigator	Funding Agency
1	Variability of response and resistance to clopidogrel as measured by platelet aggregometric	Dr.SushmaBelurkar	ICMR
2	Study on evaluation of Aspirin resistance in patients on primary or secondary prophylaxis with Aspirin based on platelet aggregometry	Dr.SushmaV.Belurkar	ICMR

**Ongoing projects**

Sl.No.	Title	Investigator	Funding Agency
1	Aetiology of Acute Encephalitis syndrome and establishment of ICMRs	Dr.Mary Mathew	ICMR

	sample bank. DES – a multisite prospective initiative		
2	HPV infection among women aged 18-65 years in Udupi Taluk. A cross sectional study	Dr.Mary Mathew	ICMR
3	Departmental participation in “T lymphocyte apoptosis in granulomatous inflammation in intestinal tuberculosis and Crohns disease-implications to diagnosis and pathogenesis.	Dr.MannaValiathan Dr.Anuradha C.K.Rao Dr.Geetha V.	DST
4	Participation in "Biomedical engineering of single cells with a combination of Raman spectroscopy and Optical tweezers"	Dr.MannaValiathan	Department of Biotechnology, Govt of India

### Completed PG Projects

2014

Sl.No	Title	Name of student	Guide
1	Clinicopathological analysis for follicular patterned lesions. Follicular neoplasm follicular variable of papillary carcinoma of oedematous nodule with reference to CK19 expression	Dr.Akriti	Dr.Anuradha C.K.Rao
2	Clinicopathological correlation in GIST	Dr.Bhawna Nagel	Dr.Manna Valiathan
3	Comparison of adequacy parameters between conventional and liquid based cytology with HPV testing	Dr.Swati Aggarwal	Dr.Lakshmi Rao
4	Clinicopathological profile of myeloma	Dr.Raghunath Unni	Dr.Chethan Manohar
5	Histopathologic changes in crypt orchid testis	Dr.Mohd. Shakir Ali	Dr.Mary Mathew
6	Bone marrow granuloma	Dr.Anna Joseph	Dr.Sushma V.B.

**2013**

Sl.No	Title	Name of student	Guide
1	DCIS – Assessment of necrosis, nuclear architectural features and correlation with IHC markers	Dr.Roumina Hassan	Dr.Manna Valiathan
2	Lymphocyte ves parameters in viral infection	Dr.Mohd. Musheb	Dr.Chethan Manohar
3	Reclassification of previously diagnosed cases of lupus nephritis by ISN 2004	Dr.Brahma	Dr.Lakshmi Rao
4	Clinicopathologic study of specimen of pre-neoplastic and non neoplastic changes seen in association with different types of breast carcinoma	Dr.Shephali Sharma	Dr.Ranjini Kudva
5	Prognostic factors in gastric carcinoma and associated adjacent parynchemical changes	Dr.Archana	Dr.Anuradha C.K.Rao
6	“Lipomatous tumour” a histopathological and clinical correlation	Dr.Y.Swathi	Dr.Geetha V.

**2012**

Sl.No	Title	Name of the student	Guide
1.	“Non neoplastic kidney disease in nephrectomy specimen” - A histopathological study	Dr.Antara	Dr.Geetha V.
2.	Histomorphological study of adult renal tumour	Dr.Sunaina A.	Dr.RanjiniKudva
3.	Bethesda System in reporting thyroid cyto-pathology	Dr.Vinay H.S.	Dr.MannaValiat han
4.	Study ofComposite hematological prolife of inhibitor prevalence in hemophilia and population of a comprehensive hemophilia treatment centre	Dr.Brij Mohan	Dr.SudhaBhat
5.	Distribution of various types of NHL using WHO and REAL classification – A 4 year study.	Dr. Vijayashree	Dr.LakshmiRao

Faculty members of pathology have published more than 50 publications in reputed national and international journals.

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14. Vidya Monappa, Sudha Bhat, Manna Valiathan, Desmoplastic small round cell tumour in a young women with widespread metastasis and peritoneal caking, *Journal of Clinical and Diagnostic Research* 2013, December vol. 7 (12):
15. Vivek Pandey, CPS Suman, Swati Sharma, Sripathi P.Rao, KV Kiran Acharya, Charudutt Sambaji, Muroid Degeneration of the Anterior Cruciate Ligament: Management and Outcome, *Indian J.orthop* 2014; 48:197-202
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#### The details of books published:

Sl.No.	Title	Name of the faculty	Publisher
1	Bcl-2 Expression in prostatic Adenocarcinoma: A study of histological features and Bcl-2 expression in Prostatic Adenocarcinoma pre and post ablation	Dr.BhavanaNayal, Dr.Mary Mathew	Academic publishing 2012
2	Prognostic Indices in IgA Nephropathy: A ten year clinicopathological study	Dr.Mary Mathew, Dr.VijayAmrithraj	Academic publishing 2012

#### Conference Presentation Year 2012 International

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1	Linear parakeratosis, A rare entity.	Dr.Swati Sharma	International Dermatopathology Conference, Mangalore, Aug30-31, 2012
2	S-100 positive MulticentricReticulohistiocytosis	Dr.MannaValiathan	International Dermatopathology Conference, Mangalore, August 30-31, 2012
3.	Morphological Spectrum of Gastric Polypoidal Lesions: An Indian Tertiary Care Centre Experience,	Dr.Mary Mathew	XXIX Congress of the International Academy of Pathology, 1-5 <sup>th</sup> October 2012, Cape, Town South Africa

4	Cytophagichistiocytic Panniculitis- An unusual panniculitis. Awareness helps in prompt diagnosis of hemophagocytic syndrome.	Dr.SwatiAgarwal	International Dermatopathology Conference, Mangalore, Aug30-31, 2012
5	Granulomatous Mastitis- Clinicopathological review of 38 cases- A 3 year study.	Dr.SushmaBelurkar	XXXIX Congress of International Academy of Pathology, Cape Town, South Africa, September 2012
6	Morphological Spectrum of Gastric Polypoidal Lesions: An Indian Tertiary Care Centre Experience	Dr.VidyaMonappa	XXXIX Congress of International Academy of Pathology, Cape Town, South Africa, September 2012
7	H.pylori associated sprue like duodenitis presenting with chronic diarrhea hypoalbuminemia and edema, A Case report	Dr.Bhavna Nayal	International Conference on Pathology by Ovaries Group Conferences, 27-28 August 2012, Philadelphia, USA
8	Primary cutaneous peripheral T cell lymphoma, unspecified – a case report with five year follow up	Dr.Vidya Monappa	International Dermatopathology Conference, Mangalore, Aug30-31, 2012
9	Cytophagichistiocytic Panniculitis	Swati Aggarwal	International Dermatopathology Conference, Mangalore, Aug30-31, 2012
10	Papuloerythroderma	RaghunathN.Unni	-do-
11	A rare presentation of soft fibroma – Nevoid bag like soft fibroma	Akriti	-do-
12	Pleomorphic lipoma with perivascular mycosis – a case report	Bramaiachari	-do-
13	A clinicopathologic study of Lichen Sclerosus, Report of 6 cases	Roumina Hassan	-do-

14	Solitary Nevus lipomatosis cutaneous superficialise mimicking lipoma	Shakir Ali	-do-
15	Lymphotropic adamantinised Trichoblastoma	Mohammed Musheb	-do-
16	Dermatofibroma pruriginous	Bikas Singhania	-do-
17	Mammal Cell, Carcinoma	Seemitr	-do-
18	Syringocystadenoma papilliferum	Swathi Y.	-do-
19	Superficial granulomatous variant of pyoderma gangrenosum in a child	Anna Joseph	-do-
20	Nevus Sebaceous of Jadasson with superimposed dermatophytic infection	Archana	-do-
21	“Juvenile Granulosa Cell Tumour” Anaplastic – Variant with omental deposits	Manjari Kishore	-do-
22	“Deep aggressive fibromyxoma”	Nidhi Vashisht	-do-

### National

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1	Von Willebrand Disease type 2B – a case report	Sushma Belurkar	53, Haematocon Conference, Puri, Odissa, November 2012
2	Leucoaggregation in vivo	Dr. Deepak Nayak, Dr. Chethan Manohar, Dr. Sushma Belurkar	VCS meet, Christian Medical College, Vellore 18-20, 2012
3	Primary Bone Marrow Lymphoma: A diagnostic dilemma	Dr. Deepak Nayak	53 <sup>rd</sup> HEMATOCON, ISHBT 2012, Puri, Odissa, 6-11 Nov. 2012
4	Validation of an Erythrocyte Sedimentation Analyzer with Modified Westergreen Method	Dr. Seemitr Verma	53 <sup>rd</sup> HEMATOCON, ISHBT 2012, Puri, Odissa, 6-11 Nov. 2012
5	Acute Erythroid Leukemia – A	Dr. Nidhi Rai	53 <sup>rd</sup> HEMATOCON,

	hematological review of 5 cases in a tertiary care centre		ISHBT 2012, Puri, Odissa, 6-11 Nov. 2012
6	Malignant mixed Tumour of Ovary – A case report	Shephali Sharma	International Academy of Pathology, India Division, Mid Year teaching programme on Pathology of Endometrium and Ovary, Bangalore, November 2012
7	Bilateral papillary serous Adenocarcinoma of Fallopian tubes	Archana S.	-do-
8	PEComa of broad ligament – A case report	Bhavna Nagel	-do-

### Year 2013

#### International

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1	The role of the needle aspiration cytology in the diagnosis of mediastinal tumours – Experience at a rural tertiary hospital in India	Dr.Manna Valiathan	18 <sup>th</sup> International Congress of Cytology, Paris, May 26-30, 2013
2	Post Chemotherapeutic changes in bone marrow in Acute Leukemia patients	Dr.Sushma Belurkar	NUHS-MD Anderson Pathology Update, Singapore, 26-28 <sup>th</sup> September 2013
3	“p53 Immunohistochemical staining patterns in benign, pre-malignant and malignant lesions of the oral cavity	Dr.Vidya Monappa	NUHS-MD Anderson Pathology Update, Singapore, 26-28 <sup>th</sup> September 2013

**National**

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1	Approach to congenital bleeding disorders	Dr.Sushma Belurkar	CME in Hematology Organized by Mysore Pathologists Association of JSS Medical College, Mysore, 16 <sup>th</sup> June 2013
2	Candidal renal papillary necrosis conquered	Dr.Ranjini Kudva, Dr.Vidya Monappa	ISRTP Conference, JSS Hospital, Mysore 1-3, 2014
3	Glucose 6 Phosphate Dehydrogenase deficiency unremarked by diabetic ketoacidosis: An Underrated phenomenon	Dr.Ayushi Agarwal	1 <sup>st</sup> National Hematology CME Organized by KMC Mangalore, 17 <sup>th</sup> March 2013
4	Diagnosis of Malaria An automated Haematology Analyser: Looking Beyond Conventional Presentation	Dr.Indira Shastry	HEMATOCON organized by ISHBT 2013, Mumbai, 6-9 November 2013
5	Megaloblastic anemia and automated parameter: Old friends with discoveries	Dr.Ayushi Agarwal	HEMATOCON organized by ISHBT 2013, Mumbai, 6-9 November 2013
6	Leucoaggregation in vitro: An elusive phenomenon: A study of 12 cases	Dr.Kavitha Gupta	HEMATOCON organized by ISHBT 2013, Mumbai, 6-9 November 2013

**Year 2014****International**

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1	“Histological Patterns of Adult Renal Disease in a Tertiary Centre – An 8 year epidemiological Review	Dr.Manna Valiathan	7 <sup>th</sup> International CME in Renal Pathology and Annual Conference of ISRTP organized by

			Department of Pathology and Nephrology, JSS Medical College, Mysore 1-3 August 2014
2	Approach to giant cell rich lesions of bone – pathological differentiated diagnosis and clinic – radiological interpretation	Dr.Anuradha C.K.Rao	ISRTPCON, 7 <sup>th</sup> International CME in Renal Pathology and Annual Conference of ISRTP, Organized by the Department of Pathology and Nephrology JSS Medical College, Mysore 1-3 August 2014
3	Placental site trophoblastic tumour in a young female	Dr.Kanthilatha Pai	Second IGCS Regional Meeting on Gynecologic Cancers Bali, Indonesia, 11-13 April 2014
4	Morphological spectrum of HIV Lymphadenitis I	Dr.Kanthilatha Pai	I shield International Symposium on HIV and emerging Infectious disease Marsielle, France May 21-23, 2014
5	Hemosiderin cast induced acute kidney injury secondary to paraquat poisoning	Dr.Padmapriya J.	7 <sup>th</sup> International CME in Renal Pathology and Annual Conference of ISRTP organized by Department of Pathology and Nephrology, JSS Medical College, Mysore 1-3 August 2014
6	The morphology of non neoplastic kidney disease in tumour nephrectomy specimen	Dr.Geetha V.	ISRTPCON, 7 <sup>th</sup> International CME in Renal Pathology and Annual Conference of ISRTP, Organized by the Department of Pathology and Nephrology JSS



			Medical College, Mysore 1-3 August 2014
7	Candidal renal papillary necrosis conquered	Dr.Ranjini Kudva, Dr.Vidya Monappa	ISRTPCON, 7 <sup>th</sup> International CME in Renal Pathology and Annual Conference of ISRTP, Organized by the Department of Pathology and Nephrology JSS Medical College, Mysore 1-3 August 2014
8	“Primary Small Cell Carcinoma” of the esophagus a 6 year retrospective study in a developing country	Dr.Bhavna Nayal	UAE Cancer Congress 2014, 30 <sup>th</sup> October – 1 <sup>st</sup> November 2014, Dubai, UAE
9	Clinicopathologic Spectrum of Renal amyloidosis	Dr.Swati Sharma	ISRTPCON, 7 <sup>th</sup> International CME in Renal Pathology and Annual Conference of ISRTP, Organized by the Department of Pathology and Nephrology JSS Medical College, Mysore 1-3 August 2014
10	Desmoplastic Small Round Tumor in ovary	Dr.Neha Jain	International CME in histopathology and Cytology, Goa, February 2014

### National

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1	Myeloid Sarcoma: A clinicopathological study with emphasis on diagnostic difficulties	Dr.Ranjini Kudva, Dr.Vidya Monappa	KCIAPM, 2014 organized by KIMS, Bangalore, 6-7 September 2014
2	“FNA diagnosis of a case each of pleomorphic adenoma and muco epidermoid carcinoma at palate	Dr.Padmapriya J.	2 <sup>nd</sup> Annual Conference on Indian Academy of Cytologists – Karnataka

			Chapter organized by Father Muller Medical College, Mangalore 29-30 March 2014
3	Facilities provided in Surgical Pathology and Cytology	Dr.Anuradha C.K.Rao	CME program on Laboratory Services organized by KMC and IMA Udupi Takarvali, 21 <sup>st</sup> September 2014, Brahmagiri, Udupi
4	Diagnostic difficulties in implementation of lung cytology and biopsy specimen	Dr.Anuradha C.K.Rao	Mid Pulmocon 2014, Mid term conference of Academy of Pulmonary critical Care Medicine (APCCM) October 12, 2014, Manipal
5	Cytological features of adenocarcinoma lung, revisited with emphasis on classification as per the proposed international associations for the study of lung cancer/American Thoracic Society/European Respiratory Society, Adenocarcinoma Classification	Dr.Kamna Ahuja	KCIAPM, Bangalore, September 2014
6	Mixed malignant germ cell tumour of third ventricle with non obstructing hydrocephalus with increased intra-cranial pressure,.	Dr.Manjari Kishore, Dr.Ranjini Kudva, Dr.Lakshmi Rao, Dr.Vidya Monappa	Neuropath 2013, Recent advances in diagnostic neuropathology, Feb. 1 <sup>st</sup> and 2 <sup>nd</sup> 2014, GB Pant Hospital, New Delhi.
7	Demoplastic Small Round tumour in abdomen	Dr.Neha Jain	MPCON, Indore

## **12. Placement record of the past students and the contribution of the department to aid studentplacements**

Pathologists in the department attempt to introduce newly passed MD students to Alumni who may help them in placement

## **13. Plan of action of the department for the next five years**

- (1) The department aims at providing excellent and up-to-date teaching of pathology to students by introducing additional methods of teaching like problem based learning and integrated teaching of more topics
- (2) The department aims to introduce newer diagnostic techniques to aid in more accurate diagnosis
- (3) To maintain research activities in the department
- (4) Encourage faculty to publish research articles in national and international journals
- (5) To motivate faculty to attend and present scientific papers in national and international journals
- (6) To facilitate academic training of post graduates and pathologists
- (7) To conduct more continuing medical education programmes.

## MICROBIOLOGY

### 1. Faculty profile - adequacy and competency of faculty

There are 13 competent faculty to meet the undergraduate (MBBS) and Postgraduate (MD, MSc) teaching/training as per regulatory body requirements

#### Faculty list

Sl. No.	Name	Qualification	Designation	Teaching Experience in years
1	Dr. KiranChawla	MBBS, MD	Professor & Head	11
2	Dr. Chiranjay Mukhopadhyay	MBBS, MD	Professor	14
3	Dr. Vandana K.E.	MBBS, MD	Professor	14
4	Dr. Mamatha Ballal	M.Sc., Ph.D.	Professor	31
5	Dr. Shashidhar V.	MBBS, MD	Assoc. Prof.	7
6	Dr. Vishnu Prasad S.	M.Sc., Ph.D.	Assoc. Prof.	18
7	Dr. VinayKhanna	MBBS, MD	Asst. Prof.	5
8	Dr. Mridula M.	MBBS, MD	Asst. Prof.	3
9	Dr. Padmaja A. Shenoy	MBBS, MD	Asst. Prof.	3
10	Dr. Barnini Banerjee	MBBS, MD	Asst. Prof.	3
11	Dr. Renuka Anegundi	MBBS, MD	Asst. Prof.	1
12	Dr. Prakash P.Y	MSc, PhD	Asst. Prof.	11
13	Ms.SeemaShetty	M Sc	Lecturer	6
14	Dr. Anupama Berwal	MBBS	Tutor	3
15	Dr. Ashu Gupta	MBBS	Tutor	3
16	Dr. Kriti Tilak	MBBS	Tutor	3
17	Dr. Isra Halim	MBBS	Tutor	3
18	Dr. Archana S	MBBS	Tutor	3
19	Dr. Chhavi Gandhi	MBBS	Tutor	2
20	Dr. Yasha Mukim	MBBS	Tutor	2
21	Dr. Suvayu Biswas	MBBS	Tutor	2
22	Dr. Geetha Kaipa	MBBS	Tutor	1
23	Dr. Sukrita Ayer	MBBS	Tutor	1
24	Dr. Siddharth Sagar	MBBS	Tutor	1

Category	Sanctioned	Filled
Teaching Staff		13
Tutors	4 per year	10

## 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 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 department strictly complies to the MCI laid regulations governing the under graduate MBBS and Postgraduate (MD) courses. The Microbiology Board of Studies Committee in the past two years has provides inputs to streamline and review the curriculum and evaluation methods. Preliminary M.Sc. programme is scaled to 8 months and curriculum broadened to include all aspects comprehensively. This enabled a Postgraduate to spend 4 month in the subject area of specialization. Teaching faculty meetings are conducted twice monthly to discuss and streamline to UG and PG training. In addition to the regular classes an integrated teaching programme is introduced where in teachers from different specialities give a syndrome approach to a particular topic.

## 4. Trends in the success and dropout rates of students during the past two years.

Course	Pass Percentage		Dropout Rate	
	2012-2013	2013-2014	2012-2013	2013-2014
MBBS	97%	95%	7	12
MD	50%	100%	1	0
MSc	80%	86%	3	1

## 5. Learning resources of the departments - library, computers, laboratories and other resources

The department has a 500 sq.ft.boardroom cum library with over 165 reference books with updated editions for the use of faculty and students.

All faculty and students have been provided with laptops by the university. The Campus is Wi-Fi enabled. In addition the department has 25 desktop computers and 5 Printers and one large scale Photostat cum fax machine. Computers with internet facility are available to the Postgraduate students in the workplace. Computers connected to Overhead projectors are used in demonstration and practical hall for teaching. E learning modules of microbiology prepared by faculty is available and is accessible to the students in the Health Sciences Library.

The Microbiology department has 2 air conditioned demonstration halls of dimensions 1085 sq.ft and 935sq.ft.and a Practical hall with dimensions 2450 sq.ft. for UG and PG practical training purposes. The department has various laboratories which offer diagnostic services and houses research facilities which include; Serology and Immunology laboratory, HIV/AIDS testinglaboratory and ICTC, Aerobic

bacteriology laboratory, Anaerobic bacteriology laboratory, Mycobacteriology laboratory, Antimicrobial Susceptibility testing laboratory, Mycology laboratory, Parasitology laboratory, Student Research lab, Molecular diagnostic facilities, Hospital surveillance, Media Preparation and Sterilization facilities. All the laboratory infrastructure is aesthetically and ergonomically designed and is spacious and fully air-conditioned. Each of the laboratories caters to need of Postgraduate teaching with latest equipment in adequate number.

#### **6. Modern teaching methods practiced and use of ICT in teaching – learning**

The department extensively uses audio-visual aids like power point and multimedia for teaching. Department has 150 microscopes and a well-equipped laboratory for teaching students in practical aspects.

Undergraduate teaching is practiced with Didactic lectures, integrated teaching and small group teaching. Demonstration, Hands on exercises, Table tutorials, Clinical case studies and applied microbiology exercises forms an integral part of teaching learning process.

Postgraduate assessments are done by;

- a. Internal exams
- b. Topic Seminars
- c. Culture Seminars
- d. Journal presentation (MD Postgraduates)
- e. Case Presentations (MD Postgraduates)

Postgraduate students are given scheduled duration of days in each laboratory and bench side teaching done. Postgraduate also undergo the Emergency Lab Postings in microbiology lab at the hospital. The teaching-learning process attempts to provide enough experiences to be provided for self-learning. Constant feedback is provided for the student academic improvement.

#### **7. Participation of teachers in academic and personal counselling of students.**

Every batch of student is equally divided among available staff members for personal interaction and mentoring. Students are encouraged to clarify their doubts both during the lectures or later. Slow learners are given special attention to overcome their learning difficulties and improvement sessionals conducted for low scorers.

Faculty members of the department also serve as teacher guardians each taking care of a group of 10 students. They are responsible both for academic and personal development of their wards. The students are also free to approach any faculty other than their allotted guardians with their difficulties.

AWARDS	EVENTS / CATEGORIES						
	Oral Paper	Poster	Travel	ICMR MD Thesis	ICMR STS	IPR (Patents)	Good Teacher
	4	41		2	2	1	1

The postgraduate students carry out regular lab work under the supervision of a faculty member. The postgraduates undertake their prescribed dissertation work under the guidance of their allotted guide and also do voluntary research projects under different faculty.

Faculty also encourages undergraduate students to undertake ICMR STS projects. Postgraduates carry out minor projects and present papers/posters during national and international CMEs, conferences which is mandatory for MD postgraduates. They are also guided by faculty to publish in national and international indexed journals.

#### **8. Details of faculty development programmes and teachers who have been benefited during the past two years**

In the past two years faculty members have attended faculty development programs pertaining to teaching, learning evaluation and personal effectiveness workshops. They actively involved in conducting Conferences, Workshops, and Training Programmes and have participated in internal audit for NABH and ISO 14000. All faculties have undergone the ISO 15189 internal audit training.

All members of teaching faculty regularly attend various scientific programs like conferences, workshops, symposia and CMEs.

#### **9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

All faculties are actively involved in teaching UG and PG students. Postgraduates and Faculty members have won numerous best oral paper and Poster Presentation awards in National and International Conferences and CMEs.

All faculties participate in research. In the last two years department has received a research grant amount to the tune of 2 crores.

Further the department assists the faculty and the students of other departments and constituent institutions to carry out funded research, Doctoral thesis, Postgraduate Dissertations, Undergraduate projects.



## 10. Collaboration with other departments / institutions, at the State, National and International levels and their outcome during the past two years

The department collaborates with faculty and students of other departments and constituent institutions to carry out funded research, Doctoral thesis, Postgraduate Dissertations, Undergraduate projects.

There are six on-going projects in the department funded by ICMR and ISID, USA.

The Integrated Counselling and Testing Centre (ICTC) for HIV testing in Department of Microbiology is being funded by National AIDS Control Organization (NACO). The department is recognized as one among the 10 State Reference Laboratory (SRL) for HIV testing in Karnataka State. Both the ICTC and SRL labs are accredited by NABL since 2014.

Mycobacteriology Laboratory in the Department of Microbiology is the designated Microscopy Centre (DMC) for diagnosis of Pulmonary Tuberculosis in the Karnataka State.

Some of the international collaboration in the past two years include the;

- MANIPALABAMA is a partnership between the Manipal University, India and the University of Alabama at Birmingham, USA which had helped in the fruition of funded projects in the microbiology department.
- Cambridge India (CIPF) Collaboration in the research area of Melioidosis
- Defense Research and Development Establishment (DRDE) India collaboration on Melioidosis
- NIH - NIAID Clinical Infectious Disease collaboration on Cryptococcosis Research

## 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:

Serology and Immunology, Aerobic bacteriology, Anaerobic bacteriology, Mycobacteriology, Antimicrobial Susceptibility testing, Mycology, Parasitology, Molecular diagnosis, Hospital surveillance.

### Ongoing Projects:

Category	Number
Funded research projects	6
Non-funded research projects	0
PhD research projects (Doctoral Thesis)	1
PG research projects (MD Dissertation)	8
UG research projects (MBBS-ICMR STS projects)	2

FUNDING AGENCIES		GRANT AMOUNT (INR)
NATIONAL	INTERNATIONAL	
<ul style="list-style-type: none"> <li>▪ ICMR</li> <li>▪ DBT</li> <li>▪ DRDE</li> </ul>	<ul style="list-style-type: none"> <li>▪ ISID</li> <li>▪ ITREOH</li> <li>▪ CIPF</li> <li>▪ Ambryx Int.</li> </ul>	Rs. 20185771.00

**Last 3 years (2012-2014):**

		2012	2013	2014
Completed funded research projects		9	4	2
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	1
Completed PG research projects		2	4	2
Completed UG research projects		2	0	0
Publications	International	23	13	24
	National	8	4	5
Books		1	0	0
Chapters in books		0	0	0
Conference presentations	International	6	13	3
	National	12	4	26

**Ongoing PG research projects are:**

Sl. No.	Title	Name of the student	Guide
1.	Evaluation of Multiplex PCR for tubercular meningitis	Dr. Anupam Berwal	Dr. Kiran Chawla
2.	Impact of change of antibiotic therapy after microbiological report on the outcome of Ventilator- associated pneumonia’.	Dr. Isra Halim	Dr. Kiran Chawla
3.	Study of Microbiological, epidemiological and clinical character of Methicillin Resistant Staphylococcus aureus (MRSA) causing skin and soft tissue infections.’	Dr. Archana S	Dr. Chiranjay Mukhopadhyay
4.	Bacteriological, serological and clinical study of human brucellosis- A Laboratory approach’	Dr. Kriti Tilak	Dr. Vandana K E
5.	Clinical, microbiological and immunological	Dr. Ashu	Dr. Shashidhar V

	profile of HIV seropositive patients presenting with symptoms of pulmonary tuberculosis with special reference to drug resistance	Gupta	
6.	Clinical and microbiological aspects of <i>Stenotrophomonas maltophilia</i> infection.	Dr.Suvayu Biswas	Dr. Kiran Chawla
7.	Clinical and bacterial profile of Community Acquired Pneumonia with evaluation of multiplex PCR in patients admitted in a tertiary care hospital	Dr.Chhavi Gandhi	Dr. Chiranjay Mukhopadhyay
8.	Microbiology of ascitic fluid infection and evaluation of diagnostic methods	Dr.Yasha Mukim	Dr. Vandana K E

### Important and Noteworthy Publications of the faculty in the past two years

(2013, 2014):

2012

#### International - Indexed

1. Kavitha Saravu, Chiranjay Mukhopadhyay, Vishwanath Satyanarayanan, Ananth Pai, Ashok Sebastian Komaranchath, Frenil Munim, Barkur Ananthakrishna Shastry, Devasia Tom. Successful treatment of right-sided native valve methicillin-resistant *Staphylococcus aureus* endocarditis and septicaemia with teicoplanin and rifampicin: A case report. *Scandinavian Journal of Infectious Diseases*, 2012; Early Online: 1–4.
2. Mukhopadhyay.C, Krishna.S, Saravu.K, Kamath.A, Shivendra.C, K Rama Moorthy. Infected Submandibular lump: Expect the unexpected. *International Journal of Dental Clinics* 2011;3(3):85-86.
3. Gurung Shrijana, Bhutia Pema Y, Pradhan Jagat, Mukhopadhyay Chiranjay, Pradhan Uttam. Community acquired methicillin resistant *Staphylococcus aureus* in new patients attending a government hospital in Gangtok, Sikkim. *JPBMS*, 2012, 19 (03).
4. Chiranjay Mukhopadhyay, Shashidhar Vishwanath, Vandana K. Eshwara, Shamanth A. Shankaranarayana, Afrin Sagir. Microbial quality of well water from rural and urban households in Karnataka, India: A cross-sectional study. *Journal of Infection and Public Health* 2012; Vol 6 (3): 257 – 262.
5. Vandana KE, Frenil M, Arjun Shetty, Aurag Gupta, Jagadhane Nitin, Chiranjay Mukhopadhyay. *Corynebacterium minutissimum* infecting pseudomeningocele: A rare case. *Journal of Microbiology, Immunology and Infection* 2012
6. Venkatesh Seetharam, Vinay Khanna, Padmapriya Jaiprakash, Kranthi Kosaraju, Joseph Thomas, Chiranjay Mukhopadhyay. Primary Hydatid Cyst of the Kidney

- and Ureter with Hydatiduria in a Laboratory Worker: A Case Report. *Case Reports in Nephrology*; Volume 2012 (2012), Article ID 59692.
7. Chaudhary Narendra, Kosaraju Kranthi, Bhat Kamalakshi, Bairy Indira, Borker Anupama. Significance of Interleukin-6 (IL-6) and C-reactive Protein (CRP) in Children and Young Adults With Febrile Neutropenia During Chemotherapy for Cancer: A Prospective Study. *Journal of Pediatric Hematology/Oncology* 2012; 34(8):617-623.
  8. Peralam Yegneswaran Prakash, V Pandit, SP Rao. Fulminant antiphospholipid antibody syndrome complicated by Aspergillus tracheobronchitis. *Medical Mycology Case Reports* 1 (-), 99-102.
  9. Peralam Yegneswaran Prakash, SL Percival. Letter: Fungal microflora of the skin and their role in biofilm infection. *International Wound Journal*.
  10. TP Shrijana Gurung, Peralam Yegneswaran Prakash, Pema. Onychomycosis in two geographically distinct regions in India. *Archives of Clinical Microbiology* 3 (6:3), doi: 10.3823/264.
  11. Peralam Yegneswaran Prakash, S Venkatesh K, K Vinay, R Sugandhi P. Renal fungal bezoar owing to *Geotrichum candidum*. *Medical Mycology Case Reports* 1 (1), 63-65
  12. Peralam Yegneswaran Prakash, B Indira. Time kill kinetic analysis of anticandidal efficacy among topical formulations for diaper dermatitis. *Journal of Pharmaceutical and Biomedical Sciences* 20 (15)
  13. Peralam Yegneswaran Prakash, D Prasad. Identification of edaphic and airborne fungi and estimation of their cadaver decomposing potency. *Mycoses* 55 (Suppl 4), 225
  14. V Payini, D Taronish, Peralam Yegneswaran Prakash. Biocontrol of yeast spoilage in selected food and beverages by yeast mycocin. *Acta Biologica Indica* 1 (1), 109-112
  15. Chawla A, Chawla K, Reddy S, Arora N, Bairy I, Rao S, Hegde P and Thomas J. Can tissue PCR augment the diagnostic accuracy in genitourinary tract tuberculosis? *Urologia Internationalis* 2012;88(1):34-8
  16. Banoo S, Shubha DS, Shashidhar V, Venkatesha D. Bacterial and clinical profile of diabetic foot patients. *Ann Trop Med Public Health* 2012;5:69-73.
  17. Kiran Chawla, Annet D'Souza, Shyamasunder Bhat N, Chiranjay Mukhopadhyay. Primary Tubercular Psoas Abscess - A rare presentation. *J Infect Dev Ctries* 2012; 6(1):86-8
  18. Vinay Khanna, Indira Bairy, Ravindra Maradi. Comparison between avidity test and detuned Elisa test in detecting the recent and established hiv-1 infection. *International J Pharm Bio Sci* 2012 Oct; 3(4): (B) 865 – 873
  19. Khanna, Vinay, Bairy Indira, Maradi, Ravindra, Khanna, Ruchee, Vishwanath, Shashidhar and Sathyanarayanachar, Manjunath (2012) Cross sectional study of

- Symptomology among Patients with Recent and Established HIV-1 Infection .  
Journal of pharmaceutical and biomedical sciences, 23 (23). Pp. 1-4.
20. Vishnu Prasad ,MamathaBallal, PG Shivananda,IndiraBairy.Honey as an Antimicrobial Agent Against Pseudomonas Aeruginosa Isolated from Infected Wounds. JGID;4:pages 102-105.
  21. Vishnu Prasad Shenoy, ShashidharVishwanath, Annet D'Souza, Indira Bairy, Joseph Thomas. Isolated tuberculousepididymo-orchitis: an unusual presentation of tuberculosis. J Infect DevCtries 2012;6(1):92-4.

#### **International - Non-indexed**

1. ChiranjayMukhopadhyay, Hitesh Shah, KE Vandana, FrenilMunim, SandeepVijayan. A child with Erysipelothrix arthritis-beware of the little known. Asian Pacific Journal of Tropical Biomedicine 2012; 503-504.
2. Karanth SS, Regunath H, Chawla K and Prabhu M. A rare case of community acquired Burkholderiacepacia infection presenting as pyopneumothorax in an immunocompetent individual. Asia Pacific Journal of Tropical Biomedicine 2012: 166-8.

#### **National - Indexed**

1. ArunChawla, KiranChawla and Joseph Thomas. Genitourinary histoplasmosis in post-renal transplant patient: Diagnostic dilemma. Indian J of Urol 2012; 28(3): 359-61.
2. KiranChawla, Frenil C Munim, Sugandhi P Rao and Suresh Pillai. Nocardia nova causing chronic Maxillary sinusitis : A rare case. JK Science 2012;14(2):95-6
3. C Mukhopadhyay, KE Vandana, F Munim, LE Lewis. Suppurativesialadenitis in a neonate by methicillin-resistant Staphylococcus aureus: Do we need search and kill superbug strategy? IJMM 2012; Jan-Mar: 113.
4. KavithaSaravu, ChiranjayMukhopadhyay, VandanaKalwajeEshwara, BarkurAnanthakrishnaShastry,KundapuraRamamoorthy, Sushma Krishna, VishwanathSathyanarayanan.Melioidosis presenting with mediastinallymphadenopathy masquerading as malignancy:a case report. Journal of Medical Case Reports 2012, 6:28.
5. S Gurung, NT Sherpa, P YodenBhutia, J Pradhan, Peralam Yegneswaran Prakash. Cryptococcus gatti serotype B isolated in Sikkim (North-East India)—a new geographical niche Medical Mycology Case Reports 1 (1), 27-28.
6. Suman S karanth, Vandana KE, Faisal Hasan, VasudevAcharya. A pregnant woman with LactococcuslactisMeningitis : To treat or not to treat? The Journal of Obstetrics and Gynaecology of India, September 2012.
7. ShashidharVishwanath, ChiranjayMukhopadhyay, RajatPrakash, Suresh Pillai, KaileshPujary, ParulPujary. "Chronic Suppurative Otitis Media - Optimizing

Initial Antibiotic Therapy in a Tertiary care setup". Indian J Otolaryngol Head Neck Surg 2012; 64:285-9.

8. Shubha DS, BanooSageera, Shashidhar V, Farheen Fatima, Venkatesha D. Speciation and antibiogram of Coagulase negative Staphylococci (CONS) from various clinical specimens. Indian Journal of Public Health Research and Development 2012;3:91-5.

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### National Indexed

1. Vandana K E, Arun Sasi, Frenil Munim, Jayashree Purkayastha, Lesli Lewis, Chiranjay Mukhopadhyay. Neonatal meningitis and sepsis by *Chryseobacterium indologenes*: Indian J Pediatr (Published online: 17 May 2013).
2. Shashidhar Vishwanath, Radhika Sarada, Annet Olinda D'souza, Chiranjay Mukhopadhyay. Asymptomatic Bacteriuria among patients with Diabetes mellitus at a tertiary care center. National Journal of Laboratory Medicine 2013;2:16-9.
3. Shashidhar Vishwanath, Arpita Singhal, Annet D'Souza, Chiranjay Mukhopadhyay, Muralidhar Varma, Indira Bairy. *Clostridium difficile* infection at a tertiary care hospital in south India. JAPI 2013;61:804-6.

### National Non- Indexed

1. Chiranjay Mukhopadhyay, Vandana Kalwaje, Vinod Bhat Hattangadi. Melioidosis (Review article). JACM, Jan – Jun 2013, Issue 1, 11-18.

### International Indexed

1. Vinay Khanna, Chiranjay Mukhopadhyay, Vandana K. E, Muralidhar Varma, and Partha Dabke. Evaluation of Central Venous Catheter Associated Blood Stream Infections: A Microbiological Observational Study. Journal of Pathogens, Volume 2013, Article ID 936864. (Published on 10 July, 2013).
2. M. Sonal Sekhar, M.K. Unnikrishnan, Gabriel Sunil Rodrigues, Chiranjay Mukhopadhyay. Synbiotic formulation of probiotic and lactulose combination for hepatic encephalopathy treatment: A realistic hope? Medical Hypotheses 81 (2013) 167–168.
3. K Ramamoorthi, Kavitha Saravu, Chiranjay Mukhopadhyay, Ananthakrishna S Barakur. Melioidosis: an underdiagnosed disease in India (epidemiology, clinical features, and outcomes). Asian Biomedicine Vol. 7, No. 2, April 2013; 249 – 256.
4. Vinay Khanna, Aparna Pai, Anirudda Deshpande, KV Chakradhar, Chiranjay Mukhopadhyay. Unusual presentation of multiple nerve palsies with granulomatous encephalitis due to *Acanthamoeba* species. Human Parasitic Diseases 2013;5 1-5



5. Kiran Chawla, Shashidhar Vishwanath, Frenil C Munim. Nonfermenting Gram-negative Bacilli other than *Pseudomonas aeruginosa* and *Acinetobacter* Spp. causing Respiratory Tract Infections in a Tertiary Care Center. *JGID* 2013;5(4): 144-148
6. Kiran Chawla, Kranthi Kosaraju, Sridevi Rayasam, Chiranjay Mukhopadhyay. Clinico- microbiological profile of chronic pulmonary aspergillosis from a tertiary care centre in Southern India. *JCDR* 2013;7(12):2712-5
7. Shashidhar Vishwanath, Kiran Chawla, Anusha Gopinathan. Multidrug resistant gram-negative bacilli in lower respiratory tract infections. *IJM* 2013;5:323-7.
8. Vinay Khanna, Anusha G, Manjunatha Hande H, Shashidhar V, Chiranjay Mukhopadhyay. *Strongyloides Stercoralis* Hyperinfection Presenting as Subacute Intestinal Obstruction. *International Journal of Scientific Research* 2013; 2:352-3.
9. Bernaitis L, Vishnu Prasad Shenoy, Ashok M, Mithun Nath, Revathi P Shenoy. Effects of selective Medicinal Plants against Multi Drug Resistance Mycobacterium Tuberculosis Strains. *RJPBCS* 2013, 4: 812-817. (July - September 2013 issue)
10. Hemachandra Champa, Padiyath Sreeshma, Peralam Yegneswaran Prakash, Monnappa Divya. Cutaneous infection with *Cylindrocarpum lichenicola*. *Medical Mycology Case Reports*. 2013;2:55-58.
11. N. Vasudev Ballal, Prakash Peralam Yegneswaran, Muliya Vidya Saraswathi and K. S. Bhat. Evaluation of Antimicrobial activity of *Anacardium occidentale* leaves against *Enterococcus faecalis* and *Candida*. *International Journal of Clinical Dentistry*. 2013;6(2):113-120
12. S Shailaja, Yogish Kamath, Manali Hazarika, Shashidhar Vishwanath. Acute post-traumatic endophthalmitis secondary to *Propionibacterium acnes*. *BMJ Case Rep* 2013. doi:10.1136/bcr-2013-201452.

### International Non- Indexed

1. Rahul Magazine, Bharti Chogtu, Shobitha Rao, Kiran Chawla. Bacterial isolates from the bronchoalveolar lavage fluid of patients with pneumonia not responding to initial antimicrobial therapy. *SMJ* 2013; 16(3): 102-106

### Abstracts Published in Conference Proceedings

1. Is TTS1 PCR the preferred method to detect melioidosis in Indian settings? looking for an answer. Chiranjay Mukhopadhyay, Annet D'Souza, Chaitanya TAK, Vandana KE, Vinod H Bhat. *MICROCON* 2013, the 37th National Congress of IAMM, NIMS, Hyderabad, November 21 to 24, 2013.



2. Bernaitis L, Shobha K.L, Jiji mathew, Ashok M, Revathi P Shenoy, Vishnu Prasad S, Chiranjay Mukhopadhyay. Comparative Evaluation of the Antimicrobial Activity of *Taxusbaccata*, *Phyllanthusdebilis*, *Plectranthusamboinicus* against MDR Bacteria. Proceedings of the International conference on Health Acquired Infections And Control ;2013 Feb 22 and 23; Organised by sri Manakula Vinayagar Medical College, Puducherry.
3. Comparative evaluation of antimicrobial activity of *Taxus Baccata*, *Phyllanthus debilis*, *Plectranthus amboinicus* against multi drug resistant (MDR) bacteria. Bernaitis Lazer, Mr. Ashok M, Jiji Mathew, Shobha K L, Revathi P Shenoy, Vishnu Prasad Shenoy , Chiranjay Mukhopadhyay. ‘International Conference on HCAI and Control’, 22 – 23<sup>rd</sup> February, 2013, Puducherry.
4. Prevalence of ESBL producing Enterobacteriaceae in patients with UTI in a Tertiary care hospital. Priyanka kumari, Girija Ratna Kumari, Chiranjay Mukhopadhyay. ‘International Conference on HCAI and Control’, 22 – 23<sup>rd</sup> February, 2013, Puducherry.
5. Antibiogram of urinary isolates in infants. Sandhya Singh, Girija Ratna Kumari, Chiranjay Mukhopadhyay. ‘International Conference on HCAI and Control’, 22 – 23<sup>rd</sup> February, 2013, Puducherry.
6. Ventilator associated pneumonia and *Acinetobacter*: A multivariate analysis with risk factors, resistance profile, treatment and outcome in a tertiary care hospital. Nidhi Malik, Chiranjay Mukhopadhyay. CME (ACM) on ‘Current Challenges in Clinical Microbiology’ on 9<sup>th</sup> March, 2013 in KMC, Manipal (**BEST ORAL PRESENTATION AWARD**).
7. Amp + ESBL producing Enterobacteriaceae: Looking for the right BL- BLI combination. Anusha G, Vandana KE, Chiranjay Mukhopadhyay. CME (ACM) on ‘Current Challenges in Clinical Microbiology’ on 9<sup>th</sup> March, 2013 in KMC, Manipal (**BEST POSTER PRESENTATION AWARD**).
8. *Acanthamoeba* in Immunocompetent. Anusha G, Vinay Khanna, Chiranjay Mukhopadhyay. CME (ACM) on ‘Current Challenges in Clinical Microbiology’ on 9<sup>th</sup> March, 2013 in KMC, Manipal).
9. Hepatitis E virus infection: Not so innocent. Pooja Sahai, Kranthi K. Vandana KE, Chiranjay Mukhopadhyay. CME (ACM) on ‘Current Challenges in Clinical Microbiology’ on 9<sup>th</sup> March, 2013 in KMC, Manipal.
10. Mechanisms of antibiotic resistance in *Pseudomonas aeruginosa* with special reference to Meropenem. Anupam Berwal, Vandana KE, Chiranjay Mukhopadhyay. CME (ACM) on ‘Current Challenges in Clinical Microbiology’ on 9<sup>th</sup> March, 2013 in KMC, Manipal.
11. MDR Enterobacter infection in neonate acquired resistance during treatment is a challenge to the clinician. Kingshuk Dhar, Vandana KE, Jayashree P, Girija Ratana Kumari, Chiranjay Mukhopadhyay. CME (ACM) on ‘Current Challenges in Clinical Microbiology’ on 9<sup>th</sup> March, 2013 in KMC, Manipal.

12. Bacterial aetiology and resistance profile of bloodstream infections in patients with cancer. Souranshu Chatterjee, Vandana KE, Chiranjay Mukhopadhyay. CME (ACM) on 'Current Challenges in Clinical Microbiology' on 9<sup>th</sup> March, 2013 in KMC, Manipal.
13. Clinico-microbiological profile of pulmonary Aspergillosis in a tertiary care centre. Chaitra Shankar, Kiran Chawla, Chiranjay Mukhopadhyay. CME (ACM) on 'Current Challenges in Clinical Microbiology' on 9<sup>th</sup> March, 2013 in KMC, Manipal.
14. Comparative analysis of *Pseudomonas* versus non *Pseudomonas* infections in bronchiectasis patients. Bernaitis L, Adithya G, Kiran Chawla, Manu Mohan, Chiranjay Mukhopadhyay. CME (ACM) on 'Current Challenges in Clinical Microbiology' on 9<sup>th</sup> March, 2013 in KMC, Manipal.

## 2014

### Publications:

#### International Indexed

1. Chaitanya Tellapragada, Vandana Kalwaje Eshwara, Ruqaiyah Johar, Tushar Shaw, Nidhi Malik, Parvati V. Bhat, Asha Kamath, and Chiranjay Mukhopadhyay. "Antifungal Susceptibility Patterns, In Vitro Production of Virulence Factors, and Evaluation of Diagnostic Modalities for the Speciation of Pathogenic Candida from Blood Stream Infections and Vulvovaginal Candidiasis." *Journal of Pathogens*, Volume 2014, Article ID 142864, 8 pages (<http://dx.doi.org/10.1155/2014/142864>)
2. Shenoy V P, Chakradhar V, Munim F, Mukhopadhyay C. "An Integrated Approach Using Liquid Culture System: Can it make an Impact for Clinical Diagnosis of Genitourinary Tuberculosis?" *Annals of Medical and Health Sciences Research*, Jul-Aug 2014, Vol 4, Special Issue 2, 144-146.
3. Sekhar S M, Vyas N, Unni krishnan M K, Rodrigues G S, Mukhopadhyay C." Antimicrobial Susceptibility Pattern in Diabetic Foot Ulcer: A Pilot Study." *Annals of Medical and Health Sciences Research*, Sep-Oct 2014, Vol 4, Issue 5, 742-745.
4. Latha T, A K Bhat, H M Hande, C Mukhopadhyay, A George, E S Devi. "MRSA Prevalence and Antimicrobial Susceptibility Pattern of Orthopedic Surgery Patients of a Tertiary Care Hospital, South India." *Asian J Med Clin Sci*, Jan - Apr 2014, Vol-3, Issue – 1, 11-14.
5. Vandana K. E, Vamsi S. R, Bhat R Y, Lewis L E, "Time to positivity of blood cultures in neonates." *Pediatr Infect Dis J*. 2014;33:212-4-2014 (Impact Factor 3.569)
6. Vandana K. E, Munim F, Shetty A, Gupta A, Nitin J, Mukhopadhyay C. "Corynebacterium minutissimum infecting pseudomeningocele: A rare case." *J Microbiol Immunol Infect* 2014; 47:149-51 (Impact Factor 1.631).

7. Vandana K. E, Tellapragada C, Acharya S, Bhat P, Kamath A, Vishwanath S, Mukhopadhyay C. "Prevalence of Clinical Periodontitis and Putative Periodontal Pathogens among South Indian Pregnant Women." *Int J Microbiol.* 2014; 2014:420149. doi: 10.1155/2014/420149
8. Vandana K. E, Asim Priyendu, Nagappa Anantha Naik, Muralidhar Varma, Balakrishnan Rajesh, "The length of stay and the hospital cost for ICU patients with resistant bacterial infections: a pilot study." *BMC Infectious Diseases* 2014, 14(Suppl 3):P38 2014. (Impact Factor 3.03)
9. Vandana K. E, Chaitanya Tellapragada, Parvati V Bhat, Chythra Rao, Asha Kamath, Satheesha Nayak, V Shashidhar, Shashidhar Acharya, Chiranjay Mukhopadhyay. "Lower genital tract infections during pregnancy and adverse pregnancy outcomes: a hospital based observational cohort study." *BMC Infectious Diseases* 2014, 14(Suppl 3):E35 2014(Impact Factor 3.03)
10. Vandana K. E, Sasi A, Munim F, Purkayastha J, Lewis LE, Mukhopadhyay C. "Neonatal Meningitis and Sepsis by *Chryseobacterium indologenes*: A Rare and Resistant Bacterium," *Indian J Pediatr.* 2014;81:611-3 2014(Impact Factor 0.713)
11. Harisankar Singha, Praveen Malik, Sachin K. Goyal, Sandip K. Khurana, Chiranjay Mukhopadhyay, Vandana K. Eshwara, and Raj K. Singh. "Optimization and Validation of Indirect ELISA Using Truncated TssB Protein for the Serodiagnosis of Glanders amongst Equines." *The Scientific World Journal*, Volume 2014, Article ID 469407, 6 pages (<http://dx.doi.org/10.1155/2014/469407>)
12. VISHNU PRASAD, Seema Shetty, Chaithanya T, Chiranjay Mukhopadhyay, "LED Fluorescence Microscopy: leads the future of rapid and effective Pulmonary Tuberculosis Diagnosis," *Int J Pharm Bio Sci* 2014 July; 5(3): (B) 752 - 756(Impact Factor 0.129)
13. Beena, Rameez Raja, Sandeep, Kavitha Karur, Peralam Yegneswaran Prakash, Indumathi V A. "Nocardia in buccal space abscess – an oral manifestation: A case report." *International Journal of Health Sciences and Research* 2014;4(3):238-241.
14. Parashuram Rao, Kiran Chawla, Vishnu Prasad Shenoy, Chiranjay Mukhopadhyay. "Characterization of TB-HIV coinfecting cases of Udupi district in coastal Karnataka." *BMC Infectious Diseases* 2014, 14 (Suppl 3):52
15. Ruqaiyah Johar, Kiran Chawla, Chiranjay Mukhopadhyay. "Is PCR better than culture in TB diagnosis: myth or reality?" *BMC Infectious Diseases* 2014, 14(Suppl 3):46
16. Kiran Chawla, Anusha Gopinathan, Chandrashekar Udyavara Kudru, Shivashankara Kaniyoor Nagiri. "Nocardia causing chronic suppurative

- otitis media and cortical venous thrombosis”. Journal of The Academy of Clinical Microbiologists 2014, 16(1): 27-9
17. Kiran Chawla, Anusha Gopinathan, Muralidhar Varma, Chiranjay Mukhopadhyay. “Elizabethkingia meningoseptica outbreak in ICU.” Journal of Global Infectious Diseases 2014,6(3)
  18. Hameed Aboobackar Shahul, Mohan K Manu, Aswini Kumar Mohapatra, Kiran Chawla. “Chryseobacterium indologenes pneumonia in a patient with non-Hodgkin's” lymphoma. BMJ Case Rep 2014. doi:10.1136/bcr-2014-204590
  19. Kiran Chawla, Shashidhar V, Ashu Gupta,” Stenotrophomonas maltophilia in lower respiratory tract infections,” Journal of Clinical and Diagnostic Research 2014;8:20-2.
  20. Vinay Khanna, Sandeep Shenai, Kriti Tilak, S Shailaja, Nidhi Malik, Chiranjay Mukhopadhyay, “Subcutaneous Infection with *Dirofilaria repens* - A Case Report,” Human Parasitic Diseases 2014;6 1–3 doi:10.4137/HPD.S15337, 2014.
  21. Peralam Yegneswaran Prakash. “Fungal surgical site infections.” International Wound Journal. 2014. DOI: 10.1111/iwj.12302.
  22. Babu Kalpana, Murthy Praveen, Peralam Yegneswaran Prakash, Kattige Jyoti, Rangaswamy Sukanya, Murthy Vinay R, Murthy Krishna R. “Chronic endophthalmitis due to *Pyrenocheta romeroi* in an immunocompetent host – a case report from southern India.” Retinal cases & Brief Reports. 2014;8(3)197-199
  23. Kriti Tilak, Shihnin Rasheed, and Chiranjay Mukhopadhyay, “Identification and Preservation of Intestinal Parasites Using Methylene Blue-Glycerol Mount: A New Approach to Stool Microscopy,” Journal of Parasitology Research Volume 2014 (2014), Article ID 672018, 4 pages 2014.
  24. Kriti Tilak, Archi Ghosh, and Chiranjay Mukhopadhyay, “Modified Negative Staining of Heine for Fast and Inexpensive Screening of *Cryptosporidium*, *Cyclospora*, and *Cystoisospora* spp”. International Scholarly Research Notices Volume 2014 (2014), Article ID 165424, 4 pages 2014.

### National Indexed

- 1 Dr. Vishnu Prasad, Chiranjay Mukhopadhyay, “Rapid Immunochromatographic Test for the Identification and Discrimination of *Mycobacterium tuberculosis* Complex Isolates from Non-tuberculous *Mycobacteria*,” Journal of Clinical and Diagnostic Research. 2014 Apr, Vol-8(4): DC13-DC15 2014 (Impact Factor 0.14)
- 2 Sulatha V Bhandary, Vijaya Pai H, Lavanya G Rao, Prakash Peralam Yegneswaran. “*Cunninghamella spinosum* fungal corneal ulcer—first case report.” Indian J Ophthalmol. 2014;62(3):375-376.

- 3 Shivaprakash M. Rudramurthy, Prasanna Honnavar, Sunil Dogra, Prakash Peralam Yegneswaran, Sanjeev Handa, Arunaloke Chakrabarti. "Association of Malassezia species with dandruff." *Indian J Med Res.* 2014; 139:431-437.
- 4 Kudur M H, Peralam Yegneswaran Prakash, Savitha M. "Fusarium solani causing quasi-invasive infection of the foot in an immunocompetent middle-aged man from South India." *Indian J Dermatol* 2013; 58:241.
- 5 BA Shastri, G Anusha, Chiranjay Mukhopadhyay, Ruchee Khanna, "Acanthamoeba meningoencephalitis in immunocompetent: A case report and review of literature," *Tropical Parasitology* 2014; 4:115-8 2014.

### Abstracts Published in Conference Proceedings

#### Poster Presentations

##### International

1. Dr. Padmaja A Shenoy, Conference ICID 2014 held at International convention Centre, Cape Town, South Africa 2<sup>nd</sup> to 5<sup>th</sup> April 2014, Poster Presented Epidemiology of Group A Streptococcus in a tertiary care center & Prevalence of spe B gene.
2. Mr. Chaitanya Tellapragada Participated and presented an e-Poster of a research abstract in the 2nd International Science Symposium on HIV & Infectious Diseases held on 30th January - 1st February 2014 at The ACCORD Metropolitan Hotel, Chennai, India.
3. Shilpa K., Presented a scientific paper poster in the conference during 7<sup>th</sup> to 9<sup>th</sup> March 2014. 1<sup>st</sup> International Congress of the Society for Ethnopharmacology (ICSE 2014) at Sri Ramachandra University Chennai- 600 116.

##### National:

1. Dr. Vinay Khanna Presented Paper titled "Avidity immunoassay for identifying recent HIV Infections" in 38<sup>th</sup> National Conference and CME of Indian Association for the study of sexually transmitted diseases and AIDS. PGIMER, Chandigarh, 31<sup>st</sup> October -2<sup>nd</sup> November 2014.
2. Dr. Shashidhar V presented poster titled "Clinical & Immunological profile of HIV 2 – An experience at a tertiary care center" at XVIII Annual State Conference of IAMM – Karnataka Chapter at KMC, Manipal on 23rd February 2014.
3. Neha Agrawal, Shashidhar. V, Sudha Vidyasagar, Muralidhar Varma presented Poster titled – "Clostridium difficile infection: A clinical profile" at the 4th Annual National Conference of the Clinical Infectious Diseases Society – "CIDSCON 2014" at Bangalore from 22nd to 24th August 2014.
4. Dr. Vishnu Prasad S, Poster Presented Isolation of Mycobacteria from Sputum Specimens using Modified Lowenstein-Jensen media compared with the conventional LJ media' National symposium on innovation in TB



- diagnostics, Drug targets and Biomarkers and CME on innovation in molecular and immunodiagnosics of PTB and EPTB in india' At Sevagram from 27 & 28 th Jan 2014.
5. Dr. Vishnu Prasad S., Poster presented Rapid Immunochromatographic Test for the Identification and Discrimination of Mycobacterium tuberculosis Complex Isolates from Non-tuberculous Mycobacteria. NATCON 2013, 68<sup>th</sup> National conference on tuberculosis and chest diseases at New Delhi from 23<sup>rd</sup> to 26<sup>th</sup> Feb 2014.
  6. Shivendra Dutt, Nagalakshmi N, Girija R Kumari. Antibiotic Stress Induced Small Colony Variant E.coli Causing Recurrent Urinary Tract Infection – Case Report. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  7. Dipika Shaw, Kiran Chawla, Chiranjay Mukhopadhyay. Hemophilus influenzae and Lower Respiratory Tract Infection. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  8. Akshatha S.J., Amin Sonam G.S., Shobha K.L. Antimicrobial Sensitivity Pattern of Urinary Tract Isolates of Citrobacter Species in a Tertiary Care Hospital. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  9. Amin Sonam G.S., Akshatha S.J, Shobha K.L., Vivekananda Shenoy, Chiranjay Mukhopadhyay. Effect of DichloroChalcone and BromoquinolinyChalcone on selected standard strain. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  10. Tushar Shaw, Vandana K.E., Chiranjay Mukhopadhyay. Blood culture contamination: A significant quality concern in laboratory medicine. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  11. Sudipta Patra, Amrita Nair, Vishnu Prasad Shenoy, Chiranjay Mukhopadhyay. Battling the odds: An assessment of relevance of sputum sample examination in patients with tubercular pleural effusion. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  12. Namrata Kapoor, Daphne Santosh. Chryseobacterium indologenes as a urinary pathogen in a portal hypertensive patient- A case report. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  13. Anusha Gopinathan, Vandana K. E., Muralidhar Varma, Chiranjay Mukhopadhyay. Non Fermenting Gram negative bacilli: Not any more children of a lesser God! KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
  14. Ruqaiyah Johar, Kiran Chawla, Chiranjay Mukhopadhyay. Role of PCR in TB Meningitis. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.

15. Souranshu Chatterjee, Chaitanya A.K.T, Vandana K.E., Chiranjay Mukhopadhyay. Ciprofloxacin resistance among clinical isolates of Salmonella: interfacing guidelines with routine practices. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
16. Kingshuk Dhar, Chiranjay Mukhopadhyay, Vandana K. E., Mohanty S. P. *Achromobacter* *Xylosoxidans* osteomyelitis: Rare to some, fearsome to many. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
17. Isra Halim, Kiran Chawla, Muralidhar Varma, Chiranjay Mukhopadhyay. Hospital acquired pneumonia: the role of microbiological confirmation with respect to patient outcomes. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
18. Ashu Gupta, Kiran Chawla, Chiranjay Mukhopadhyay. *Stenotrophomonas maltophilia* in lower respiratory tract infection. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
19. Kriti Tilak, Vandana K. E., Muralidhar Varma, Chaitanya A K T, Chiranjay Mukhopadhyay. Human brucellosis: Experience from a tertiary care hospital. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
20. Archana Bupendra, Vandana K E, Chiranjay Mukhopadhyay. In vitro activity of Daptomycin against Methicillin resistant *Staphylococcus aureus* strains isolated from hospitalized patients. KC MICROCON 2014, XVIII Annual Conference of IAMM – Karnataka Chapter, 23 February, 2014.
21. Shashidhar V, Aaron A, Archana S, Barnini B, Kavitha S, Chiranjay M, Methicillin Resistant *Staphylococcus aureus* Colonization among HIV Infected Adults at a Tertiary Care Centre, Virology workshop 2014 in BMCRI, Bangalore.
22. Kriti Tilak, Vinay Khanna, G. Pai, Chiranjay M. *Blastocystis hominis*: Gulty or Innocent??? Microcon 2014 (National Conference)
23. Souranshu Chatterjee, Vandana K. E., Chaithanya A K T., Muralidhar Varma, Chiranjay. M., Microcon, 2014 Oct in Jaipur (National Conference): Poster - Title: "Study of antimicrobial resistance, clinical and molecular epidemiology of blood isolates of *Salmonella* Typhi and *Salmonella* Paratyphi A."
24. Ravi Kumar T.N., Prakash p. y, *Fusarium* (*Cylindrocarpon*) *lichenicola*( C. Massal.) a cause for White superficial onychomycoses (WSO) of Toe nail – a case report
25. Dr. Isra Halim, Dr. Kiran Chawla, Dr. Muralidhar Varma, Dr. Chiranjay Mukhopadhyay poster presented at CIDSCON 2014 “MDR Organisms in MICU : A challenge to change.”



26. Ashu Gupta, Shashidhar Vishwanath, KE.Vandana, M. Mridula, C Mukhopadhyay. Blood stream infections among Human Immunodeficiency Virus infected Adults at a tertiary care centre. 38<sup>th</sup> Annual Conference of Indian Association of Medical Microbiologists – Microcon 2014.

### **Oral Paper Presentation**

1. Kingshuk Dhar, Chaitanya Tellapragada, Ravi Prakash Rai, Jahanarah Khatoon, Ganesh Pai , KashiNath Prasad, Shashidhar Vishwanath, Chiranjay Mukhopadhyay. Phenotypic and genotypic characterization of *Helicobacter pylori* in patients with peptic ulcers with special reference to detection of virulence markers. October, 2014; MICROCON, Jaipur.

## **12. Plan of action of the department for the next five years**

- To implement modern methods of teaching like Problem based learning (PBL) and Objective structured Practical Examination (OSPE) for integrated vertical and horizontal approach to learning.
- Design more objective evaluation methods
- Conduct annual National or State level Conference or CME programmes
- To continue the momentum of research output, forge new collaborations and increase the quantum of grants and Quality of publications
- To address the contemporary research problems pertinent to infectious disease and work towards societal benefit.
- Empower faculty to design curriculum in their interested research areas and to train the junior faculty and Postgraduates of the state.

## PHARMACOLOGY

### 1. Faculty profile - adequacy and competency of faculty.

There are ten teaching faculty members who meet the requirements for MBBS and Dental and also for postgraduate training as per the requirements of the regulatory bodies. All faculty members are competent.

#### Faculty list

Sl. No.	Name	Qualification	Designation	Teaching Experience in years
1	Dr Shalini Adiga	MBBS, MD	Professor & Head	14
2	Dr.K Laxminarayana Bairy	MBBS, MD, Ph.D	Professor	30
3	Dr Smita Shenoy	MBBS, MD	Addl. Prof.	11
4	Dr Bharti Chogtu Magazine	MBBS, MD	Assoc. Prof.	10
5	Dr Mohan Amberkar	MBBS, MD	Assoc. Prof.	8
6	Dr Meena Kumari K.	MBBS, MD	Assoc. Prof.	8
7	Dr Veena Nayak	MBBS, MD	Assoc. Prof.	8
8	Dr. Shivaprakash G.	MBBS, MD	Assoc. Prof.	7
9	Dr. Navin A. Patil	MBBS, MD	Assoc. Prof.	2
10	Ms. Swapna S.	M.Sc.	Lecturer	2

Category	Sanctioned	Filled
Teaching staff	13	10
Tutors	5	

- There are additional 19 tutors working in the department

### 2. Student profile - entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure No. HS 1 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 various courses are governed by regulatory bodies like MCI, DCI, etc. and the department complies with the laid down requirement.

The faculty were involved in the preparation of pharmacology syllabus for the handbook

of second MBBS students. The board of studies (pharmacology) recommended a uniform practical record for medical and dental students of Manipal and Mangalore. The faculty accordingly revised the practical record. The curriculum for MBBS was revised in 2012. Topics like Adverse drug reaction reporting, pharmacoeconomics and critical analysis of drug promotional literature have been introduced. To improve students skills, mannequins for drug administration and drug delivery devices are used to impart hands on training. Animal experiments have been replaced by Computer Assisted Learning. Integrated teaching has been implemented for MBBS students. Topics like drugs acting on skin and mucous membrane, antiseptics, disinfectants and ectoparasiticides, vitamins, vaccines and sera have been included in the tutorial classes.

Postgraduates are being trained in pharmacovigilance by faculty ; they are posted for BA/BE studies, clinical trials and animal house.

Objective structured practical examination (OSPE) has been introduced for MBBS and BDS students. A change has been made in the university examination pattern of MBBS, MD and MSc courses.

The duration of M.Sc. has been increased to 2 ½ years. This change enables the postgraduate to spend 6 months more in his/her subject of specialization.

#### 4. Trends in the success and dropout rates of students during the past three years.

Course	Pass Percentage			Dropout rates		
	2012	2013	2014	2012	2013	2014
MBBS	93%	93%	95%	-	-	-
MD	100%	100%	100%	0	0	0
M.Sc.	61%	73%	89%	0	0	0
BDS	90%	97%	94%	-	-	-
BSc(Biotech)	75%	93%	87%	-	-	-

#### 5. Learning resources of the departments - library, computers, laboratories and other resources.

The department has well-equipped air conditioned library with over 184 books and journals in the subject & allied specialities for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. Internet facility is also available in the Department. In addition, the department also has seven desktop computers, five printers and a xerox machine. We have nine LCDs for practical demonstration for undergraduate and postgraduate students.

There are three well equipped laboratories -Experimental Pharmacology, Clinical Pharmacology and Postgraduate laboratory. The Experimental Pharmacology and Clinical Pharmacology laboratories can cater to 125 students each at a time. The postgraduate laboratory is equipped with instruments which meet the requirements of PG curriculum and research. There is a Central Animal house with animal breeding, maintenance and facility for research.

There is a Department Museum having 20 catalogues, drug specimens and 90 charts. There is a Pharmacovigilance centre with computer, printer and internet facilities for documenting and reporting adverse drug reactions of Kasturba Hospital, Manipal.

There are four demonstration rooms equipped with audio-visual aids to facilitate teaching & learning. All are air-conditioned and can accommodate 70 students at a time.

#### **6. Modern teaching methods practiced and use of ICT in teaching – learning.**

The department extensively uses audiovisual aids like power point and multi-media for teaching. Department has mannequins available to teach students about skills of drug administration. Animal experiments have been replaced by computer assisted learning. Integrated teaching, small group teaching and group discussions, seminars and journal clubs for postgraduates are the teaching learning methodologies employed.

#### **7. Participation of teachers in academic and personal counseling of students.**

- Every batch of student is equally divided among available staff members for personal interaction and mentoring.
- Academic counseling to students are given by the faculty
- Improvement Sessional and counseling is conducted for students short of required internal assessment.
- Postgraduates are given teaching assignments
- Students - undergraduates and postgraduates encouraged to participate in workshops, CMEs, conferences.
- Pursue research with grants from internal and external (ICMR) agencies under faculty guidance
- Present research work – national and international conferences.
- Publish research work

### 8. Details of faculty development programmes and teachers who have been benefited during the past two years.

All faculties have attended faculty development programmes pertaining to teaching-learning and evaluation over the past few years. All faculties regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years, faculty have attended at least 27 such programmes.

#### Workshop/ CMEs conducted in the department in the past two years

- Workshop on “How to write and publish a scientific article” held on 17th and 18th May 2013,
- Workshop on “Pharmacovigilance and Vigiflow Training” held on 18th September 2013
- Workshop on “DNA extraction” held from 9<sup>th</sup> to 11<sup>th</sup> January 2014
- Workshop on “Patents – What researchers need to know?” held on 21<sup>st</sup> March 2014
- Workshop on “Pharmacoeconomics” held on 22nd March 2014
- Workshop on Animal Handling and Drug administration held on 21<sup>st</sup> June 2014
- CME on “Investigators training” held on 26th and 27th September 2014,

Other Workshop/ CMEs attended by the faculty in the past two years:

Sl. No.	Workshop/CMEs	Faculty
1	46th Annual Conference of Indian Pharmacological Society held at NIMHANS Bengaluru from 16th to 18th December 2013.	Dr. K. L. Bairy
2	International Conference on Pharmacy and Pharmaceutical Sciences to be held at Singapore, SG from September 11 -12, 2014	Dr. K. L. Bairy
3	Research Ethics & Human Research Protection Programs in Clinical Research in collaboration with the Association for Accreditation of Human Research Protection Programs (AAHRPP) to be held from 7-8th November 2014. At TATA Memorial Hospital, Mumbai.	Dr. K. L. Bairy
4	60th Annual conference of Association of Physiologists and Pharmacologists of India to be held at Puri, Odisha, from 20th to 22nd of November 2014.	Dr. K. L. Bairy
5	Hands –on Workshop on Basic Techniques of Molecular Biology held on 11 <sup>th</sup> October 2014 conducted by Pharmacology departments of KMC and MMMC, Manipal University, Manipal.	All Faculty
6	CME on “Update On Receptor Pharmacology held on 6 <sup>th</sup> November 2013 at KSHEMA, Mangalore	Dr. K. L. Bairy

7	5 Days Hands –on Workshop on Molecular Biotechnology and Bioinformatics held from 24 <sup>th</sup> to 28 <sup>th</sup> March 2014 at ICSCCBI, Pune	Dr. K. L. Bairy
8	IACR – 2014 Conference held from 13 <sup>th</sup> to 15 <sup>th</sup> February 2014 organized by Rajiv Gandhi Center for Biotechnology, Thiruvananthapuram and Srinivasa Ramanujan Institute for basic Sciences, Kottayam.	Dr. K. L. Bairy
9	Inaternational Conference on Advances in Healthcare & Life Sciences held on 8 <sup>th</sup> and 9 <sup>th</sup> November 2014 at Singapore.	Dr. Shalini Adiga Dr. Smita Shenoy
10	DESIGN: A national workshop on creating MCQs.Feb 17-18 <sup>th</sup> , 2014, MCPD, Manipal University.	Dr. Bharti Chogtu Dr. Smita Shenoy
11	Pharmacoeconomics 22 <sup>nd</sup> March, 2014, Department of Pharmacology, KMC, MANipal	All faculty
12	Workshop on “Knowledge, learning and memory” April 26 <sup>th</sup> ,2014, MCPD, Manipal University	Dr. Bharti Chogtu Dr. Smita Shenoy
13	Manipal Cardiology update-2013 November 1	Dr. Bharti Chogtu
14	Workshop on “ Ethical issues in biomedical research”-29-30 May, 2013 by MCPD and dept of hospital administration	Dr. Bharti Chogtu Dr. Smita Shenoy Dr. Meena Kumari K. Dr. Mohan Amberkar
15	Workshop on “ Counseling skills for teachers”---11-12th March, 2013 by Department of Student Affairs	Dr. Bharti Chogtu Dr. Meena Kumari K.
16	Basic Medical Technology workshop conducted by the department of Medical Education,Kasturba Medical College,Manipal on 13 <sup>th</sup> -15 <sup>th</sup> October 2014.	Dr. Meena Kumari K. Dr. Navin Patil
17	Workshop on ‘Investigator Training Program ’ conducted by Pfizer at Kasturba Medical College, Manipal University on 26 <sup>th</sup> - 27 <sup>th</sup> Sep 2014.	All faculty
18	Mini Workshop for postgraduate dissertation guides conducted by the Kasturba Medical College, Manipal University on June 07 <sup>th</sup> 2014.	Dr. Shalini Adiga Dr. Meena Kumari K. Dr. Mohan Amberkar
19	Workshop on ‘Evolution of Teaching and Learning in Higher	Dr. Meena

	Education' conducted by the Manipal Centre of Professional and Personality development, Manipal University on 15 <sup>th</sup> May 2014.	Kumari K. Dr. Mohan Amberkar
20	CME on 'Update on Multi-Drug resistant tuberculosis and childhood tuberculosis' conducted by Dept . of community medicine,Kasturba Medical College,Manipal,Manipal University and International Union against tuberculosis and lung disease ,New Delhi on 15 <sup>th</sup> Mar 2014.	Dr. Meena Kumari K. Dr. Mohan Amberkar
21	CME on 'Polypharmacy in the elderly' conducted by Kasturba Medical College,Mangalore,Manipal University on 1 <sup>st</sup> Mar 2014.	Dr. Meena Kumari K. Dr. Shivakumar G. Dr. Mohan Amberkar
22	Workshop on 'Crusade against neoplasia and challenges in targeting tumor-specific nuclear machinery' conducted by the Manipal College of Pharmaceutical Sciences, Manipal University on Jan 21-23 <sup>rd</sup> 2014.	All faculty.
23	Workshop on 'Advanced Microsoft Word' conducted by Welcomgroup Graduate School of Hotel Administration, Manipal University on March 30 <sup>th</sup> 2013	Dr. Meena Kumari K.
24	Workshop on 'Counseling skills for teachers' organized by Department of Student Affairs on 11 <sup>th</sup> & 12 <sup>th</sup> March 2013.	Dr. Meena Kumari K. Dr. Mohan Amberkar
25	Workshop on 'Teacher as communicator' conducted by the Manipal Centre of Professional and Personality development, Manipal University on January 25 <sup>th</sup> 2013.	Dr. Meena Kumari K. Dr. Mohan Amberkar
26	National workshop on 'Assessment in Higher Education' conducted by the Manipal Centre of Professional and Personality development, Manipal University on January 10-12 <sup>th</sup> 2013.	Dr. Meena Kumari K.
27	Biostatistics, Epidemiology and research methodology Feb-July-2014	Ms. Swapna S.
28	CME cum Workshop on Phototherapy- 24 August , 2014	Ms. Swapna S.
29	Workshop on qualitative research September 2013	Ms. Swapna S.



30	International conference on physical education and sports- Manipal 8 <sup>th</sup> to 11 <sup>th</sup> January 2014	Dr. Navin Patil
31	International Conference on Pharmaceutical, Medical & Environmental Health Sciences (IPharME 2014) at Penang, Malaysia	Dr. Navin Patil Dr. Mohan Amberkar
32	Workshop on 'Persuasive communication' on 28 <sup>th</sup> and 29 <sup>th</sup> November, 2014 at Manipal Centre for Professional and Personal Development, Manipal	Dr. Smita Shenoy Dr. Veena Nayak
33	Workshop on Bioethics conducted by Manipal Unit of UNESCO Chair in Bioethics on 23 <sup>rd</sup> September, 2014 at Manipal	Dr. Smita Shenoy
34	South zone training program in Pharmacovigilance held at the Dept. of Pharmacy practice, JSS College of Pharmacy, Mysore, from 4 <sup>th</sup> -5 <sup>th</sup> August, 2014	Dr. Smita Shenoy
35	Internal Quality Auditor training program for Integrated Management System conducted by Manipal University Quality Cell from 16 <sup>th</sup> – 18 <sup>th</sup> June, 2014 at Manipal	Dr. Shalini Adiga Dr. Smita Shenoy
36	CME on 'Update on Multi-drug resistant tuberculosis and childhood tuberculosis' on 15 <sup>th</sup> March, 2014 Dept. of Community Medicine, Kasturba Medical College, Manipal.	All Faculty
37	Workshop on 'Curriculum design' July, 2013 Manipal Centre for Professional development, Manipal University	Dr. Smita Shenoy
38	Attended a "National Workshop on Statistical Analysis using R" conducted by Department of Community Medicine, KMC, Manipal from 7-8 <sup>th</sup> Feb 2013	Dr. Shivaprakash G.
39	Attended CME on "Recent advances in Rabies: rabies update-2013" held at KMC, Mangalore, Manipal University on 13/April/2013	Dr. Shivaprakash G.
40	Attended CME on 'Neurocritical care' on 1/12/2013 at KMC, Mangalore	Dr. Shivaprakash G.

#### 9. Participation / contribution of teachers to the academic activities including teaching consultancy and research.

All the faculty are actively involved in teaching undergraduate and postgraduate students. All of them participate in research (clinical and animal) including industry sponsored research. Faculty have developed UG Curriculum and handbook, undergraduate

curriculum practical record. They are involved in teaching pharmacology to first year postgraduates of Dental and Ophthalmology courses. Faculty also provide Basic Life Support training to undergraduates. They are also resource persons for the workshop/CMEs conducted in and outside the department. Dr. K. L. Bairy is the Director of Manipal Centre of Clinical Research, Chairman IAEC, Member IEC. Faculty are members of doctoral committee, students research forum and ISO core committee.

The Department of Pharmacology, KMC, Manipal is recognized as Adverse Drug Reaction Monitoring Centre by Ministry of Health and Family Welfare, Government of India under Pharmacovigilance Programme of India.

#### **10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.**

Interdepartmental research work- many of the PG thesis & UG projects have been done in collaboration with other department of KMC, Manipal - Department of Medicine, Biochemistry, Cardiology, Neurology, Psychiatry, Oncology, Microbiology, Pulmonary Medicine, Neonatology, Gastroenterology and Urology. Various PhD and PG projects is also undertaken through Interinstitutional collaboration – Manipal College of Pharmaceutical Sciences, Manipal Melaka Medical College, Manipal and Manipal College of Nursing, Manipal, A.V. Baliga Hospital, Udupi, District Government hospital, Udupi. Research is conducted in collaboration with various industries.

CMEs have been organized in collaboration with pharmaceutical companies. The Department organized the Annual Conference of Indian Pharmacological Society in December, 2011. Workshops sponsored by Medical Council of India (MCI) and Indian Council of Medical Research (ICMR) were conducted prior to the conference.

However such collaborations with institutes at the state, National and International levels has not been done. The faculty have jointly published scientific articles in various international/ national indexed journals.

#### **11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.**

Priority areas : Psychopharmacology, Wound healing, Cardiovascular and respiratory disease.

**Ongoing Research projects:**

Category	Number
Funded research projects	15
Non-funded research projects	11
PhD research projects	7
PG research projects	13
UG research projects	8

**Last 3 years (2012-2014):**

		2012	2013	2014
Completed funded research projects		07	-	-
Completed non-funded research projects		05	6	9
Completed PhD research projects		01	-	-
Completed PG research projects		04	4	6
Completed UG research projects		06	4	4
Publications	International	13	27	45
	National	09	-	-
Books		01	0	0
Chapters in books		0	0	0
Conference presentations	International	7	8	8
	National	1	1	2

The detailed outline of projects is given below:

**Ongoing funded research projects are:**

Sl. No	Title	Principal Investigator	Funding agency	Total amount sanctioned	Total amount received
1	Morphological changes in the testis and spermatozoa of rats treated with Lamotrigine <b>(Duration : 3 years)</b>	Dr. K. L. Bairy	ICMR	Rs. 2,35,000/- <b>(for 3 years)</b>	Rs. 21,000/-

2	Influence of ageless liquid on gentamicin induced nephrotoxicity in Wistar rats	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 6,80,400/-	Rs.4,08,240 /-
3	“Influence of ageless liquid on N-methyl-N-nitrosourea (MNU) induced retinal degeneration (RD) in Sprague-Dawley rats”	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 7,52,400/-	Rs. 4,51,440/-
4	Acute and long term safety evaluation of Zincovit syrup (Nutritional food supplement) in rodents	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 5,20,992/-	Rs. 5,20,992/-
5	“Influence of Zincovit Drops (Nutritional food supplement) on glucose level in normal and Steptozocin induced diabetic rats”	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 5,44,200/-	Rs. 5,44,200/-
6	“Influence of Zincovit syrup (Nutritional food supplement) on glucose level in normal and Steptozocin induced diabetic rats”	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 5,44,200/-	Rs. 5,44,200/-
7	“The effect of topical antibiotics and steroids on Allergic Conjunctivitis model in rats”	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 3,02,400/-	Rs. 3,02,400/-

8	Effect of fusithalamic (1%), Sofinox (0.15%) and Sofinox (0.25%) eye drops on eye scratching behavior and allergic symptoms in IgE-mediated allergic rat conjunctivitis model”	Dr. K. L. Baiyy	Apex laboratories Chennai	Rs. 3,54,400/-	Rs. 1,77,200/-
9	Antioxidant and hepatoprotective potential of Zincovit syrup (Nutritional food supplement) against carbon tetrachloride induced hepatotoxicity in rats	Dr. K. L. Baiyy	Apex laboratories Chennai	Rs. 4,67,856/-	Rs. 4,67,856/-
10	Influence of Zincovit syrup (Nutritional food supplement) on immune level in normal and acryl amide intoxicated rats	Dr. K. L. Baiyy	Apex laboratories Chennai	Rs. 6,70,032/-	Rs. 6,70,032/-
11	Acute and long term safety evaluation of Zincovit drops (Nutritional food supplement) in rodents	Dr. K. L. Baiyy	Apex laboratories Chennai	Rs. 5,20,992/-	Rs. 5,20,992/-
12	Antioxidant and hepatoprotective potential of Zincovit drops (Nutritional food supplement) against carbon tetrachloride induced hepatotoxicity in rats	Dr. K. L. Baiyy	Apex laboratories Chennai	Rs. 4,67,856/-	Rs. 4,67,856/-

13	Influence of Zincovit drops (Nutritional food supplement) on immune level in normal and acryl amide intoxicated rats	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 6,70,032/-	Rs. 6,70,032/-
14	A 2 month Randomized, open label, Placebo controlled study to evaluate the Cardiovascular profile of Zincovit tablets with Grape seed extract (Nutritional Food Supplement)” in Normal Healthy volunteers	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 10,94,400/-	Rs. 5,47,200/-
15	A 45 day Randomized, Open label, Comparator study to evaluate the safety and efficacy of zincovit tablets with Grape seed extract (Nutritional Food Supplement)” in patients with type 2 diabetes mellitus	Dr. K. L. Bairy	Apex laboratories Chennai	Rs. 10,94,400/-	Rs. 5,47,200/-
<b>Total Amount</b>				<b>Sanctioned</b>	<b>Received</b>
				<b>Rs. 89,19,560/-</b>	<b>Rs. 68,60,840/-</b>

**Ongoing PhD research projects are:**

Sl. No	Title	Name of student	Name of the guide
1.	Behavioral, biochemical and histopathological analysis of the effects of angiotensin converting enzyme inhibitors and angiotensin receptor blockers on learning and memory in male wistar rats	Ms. Debashree Deb	Dr.K.L.Bairy
2.	Fertility and gonadal function in male mice treated with sorafenib	Ms.Sureka Shetty	Dr.K.L.Bairy
3.	Effect of aqueous seed extract of <i>Mucuna pruriens</i> against arsenic induced oxidative stress and tissue damage in male rats	Ms. Preethi Lavina Concessao	Dr.K.L.Bairy
4.	“Impact of functional polymorphisms in serotonin transporter gene (SLC6A4) and cytochrome P450C19 (CYP2C19) gene in response to escitalopram in patients with major depression”	Ms. Tatiyana Mandal	Dr.K.L.Bairy
5.	Influence of gender and obesity on analgesic modulation of tramadol in rats: a neuroendocrinological approach	Mr. Shakta Mani Satyam	Dr.K.L.Bairy
6.	Safety and efficacy of human bone marrow derived mesenchymal stromal cells in liver cirrhosis animal model	Ms. Ashwini Aithal P	Dr.K.L.Bairy
7.	“Influence of hydroalcoholic extracts of <i>Aegle marmelos</i> leaves and <i>Tamarindus indica</i> seeds in diabetic and hyperlipidemic animal models: In vitro and in vivo approach”	Mr. Jay Prakash	Dr. Smita Shenoy



**Ongoing PG research projects are:**

Sl. No.	Title	Name of the student	Guide
1	Comparison of efficacy and adverse drug reactions of monotherapy versus combination therapy of antihypertensives among diabetic hypertensive patients in a tertiary care hospital.	Dr. Rinz Mathew Paulose	Dr. K L Bairy
2	Evaluating the relationship of inhaler technique with asthma control and quality of life	Dr. Sadhana N Holla	Dr. Bharti Chogtu Magazine
3	A study to compare the safety of rapid infusion rituximab and conventional rituximab infusion in a tertiary care centre	Dr. Manju Janardhanan	Dr. Veena Nayak
4	Study of diuretic and antiurolithiatic properties of ethanolic extract of <i>Sida acuta</i> Burm.f. in albino rats	Dr. Manu Mathew George	Dr. Shalini Adiga
5	Evaluation of adverse reaction profile of antiretrovirals and drugs used for management of opportunistic infections in HIV positive patients	Dr. Chaithanya A Malalur	Dr Smita Shenoy
6	Evaluation of Hepatoprotective activities of aqueous extract of <i>Tinospora cordifolia</i> (Tc) and <i>Curcuma longa</i> (Cl) and their combination against Anti-tubercular drugs induced hepatotoxicity in albino rats	Dr. Avin S	Dr Mohan Amberkar
7	A retrospective study of treatment outcome of drug therapies used in heart failure patients with associated co-morbidities in a tertiary care hospital	Dr. Harish Thanusubramanian	Dr. Meena Kumari K
8	Effect of sodium valproate and docosahexaenoic acid supplementation on pain and inflammation in rats	Dr. Sushil Kiran Kunder	Dr. K. L. Bairy

9	Effect of Angiotensin Converting Enzyme Inhibitor on antipsychotic induced metabolic syndrome in rats	Dr. Avinash A.	Dr. K. L. Bairy
10	Pattern of drug therapy and outcome analysis of third line agents used in treatment of uncomplicated type2 diabetes mellitus	Dr. Rupam Gill	Dr. Shalini Adiga
11	Influence of topical ethanolic extract of leaves of cyanotis cristata on wound healing in wistar rats	Dr. Anurag Pathak	Dr. Smita Shenoy
12	Retrospective hospital based study on effect of statins in asthma patients	Dr. Dipanjan Bhattacharjee	Dr. Bharti Chogtu Magazine
13	To compare the clinical effectiveness of aprepitant versus olanzapine in chemotherapy induced breakthrough emesis	Dr. Sarayu V.	Dr. Shivaprakash G.

**Completed PhD research projects are:****Year 2012**

Sl.No	Title	Name of the research scholar	Guide
1.	Effects of lead induced oxidative stress on prenatal and postnatal rat brain development – a biochemical, morphological and behavioral study	Rajashekar Rao Barkur	Dr. K. L. Bairy

**Completed PhD research projects are:****Year 2013 & 2014 : NIL****Completed PG research projects are:****Year 2012**

Sl#	Title	Name of the student	Guide
1.	A Prospective study to analyse antibiotic susceptibility pattern of <i>Pseudomonas aeruginosa</i> and its clinical outcome in a tertiary careHospital	Dr. Syed Sadiq Ameen	Dr. K. L. Bairy

2	Effect of flowers of <i>Michelia champaca</i> on wound healing in diabetic rats	Dr. Amoolya Gowda	Dr. Tara V. Shanbhag
3	A prospective, observational study comparing the efficacy and Tolerability of Three different classes of anti-asthmatic drugs being used to treat patients with Bronchial asthma	Dr. Ajita Sharma	Dr Shalini Adiga
4	A Comparative study of the effect of topical antimicrobials and antisloughing agent on wound healing in diabetic Wistar rats	Dr. Raghu M.N	Dr. Smita Shenoy
5	To study modulation of analgesic activity of tramadol, Gabapentin and Venlafaxine	Satyam, Pirasantham Sumit	Dr. KL Bairy Dr. Bharti C Magazine
6	Comparison of different statins on acute and chronic models of epilepsy	Poornima BM	Dr Shalini Adiga Dr Veena Nayak
7	Comparison of adrenergic blockers on excision wound healing in wistar rats	Manohar B	Dr Bharti Chogtu Dr Veena Nayak
8	Managemant of alcohol withdrawal – A prospective study	Praveen	Dr Veena Nayak Dr Bharti Chogtu
9	Evaluation of antidiabetic effect of combination of <i>Pterocarpus marsupium</i> , <i>Gymnema sylvestre</i> and <i>Trigona foenum graecum</i> alone and along with metformin on streptozotocin induced diabetes in wistar rats	Ritesh Kumar	Dr.Smita Shenoy

**Completed PG research projects are:  
Year 2013**

Sl#	Title	Name of the student	Guide
1.	Comparison of directly observed treatment short course (DOTS) with self administered therapy in treatment of pulmonary tuberculosis – A retrospective study	Dr. Amrita Parida	Dr. K. L. Bairy
2	Evaluation of the effect of <i>Costus igneus</i> on learning and memory in normal and diabetic rats	Dr. Shashikanth Chetty	Dr. Shalini Adiga
3	A retrospective study of drug prescribing pattern in urinary tract infection in a tertiary care hospital	Dr. Patel Pratik	Dr. K. L. Bairy
4	A prospective study of the drug prescribing pattern and assessment of adverse drug reactions in patients with idiopathic Parkinson's disease in a tertiary care hospital	Dr. Vijay Kumar J	Dr. Smita Shenoy

**Completed PG research projects are:  
Year 2014**

Sl#	Title	Name of the student	Guide
1.	Assessment of efficacy, adverse drug reaction and cost effective analysis of NSAIDs, Muscle Relaxants and neurotropic drugs in low back pain patients in a tertiary care hospital: A prospective observational study	Dr. Ishan B. Patel	Dr. K. L. Bairy
2	Effect of Rosuvastatin in patients of chronic obstructive pulmonary disease with pulmonary Arterial Hypertension – A randomized prospective study	Dr. Sanitha Kuriachan	Dr. Bharti Chogtu Magazine
3	Antiretroviral therapy outcome in HIV infected patients in a tertiary care hospital	Dr. Hasitha Diana Manohar	Dr. Smita Shenoy

4	Patterns and predictors of adverse effects associated 2 <sup>nd</sup> generation antidepressants –A large naturalistic study	Dr. Disha Shetty	Dr. K. L. Bairy
5	A retrospective study of drug prescribing pattern in Osteoporosis in a tertiary care hospital	Dr. Amruta Tripathy	Dr. Shalini Adiga
6	A Prospective study of antimicrobial utilization and cost pattern analysis in the treatment of neonatal sepsis in a tertiary care hospital	Dr. Mahesh Kumar D	Dr. Shalini Adiga

### Year 2012

#### International (Indexed)

1. Bairy KL, Deepa Ayyappa, Chandrashekar BR, Avinash M Holla, Pawan kumar A.V,  
Purnima Sirigiri, Avin D'Souza, Satish Kumar MC  
Effect of mometasone furoate and betamethasone valerate on skin inflammatory model  
in wistar rats J Biosci Tech, 2012; Vol 3 (1), 446- 448
2. Arul Amuthan, Bharti Chogtu, K.L.Bairy, Sudhakar, Mungli Prakash  
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rats J Ethnopharmacol 2012;140:424-427
3. Bairy KL, Pawan kumar A.V, Chandrashekar BR, Avinash M Holla, Rockson Christopher Purnima Sirigiri and Satish Kumar MC  
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4. Veena N, Lalith M, Bharti C, Bairy KL  
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5. Bairy KL, Pratibha P Accreditation of human research protection program: An Indian perspective. respect Clin Res 2012; 3(2):80-84
6. Veena Nayak, Shalini Adiga, Poornima BM, Ravi Sharma, Arpita Garg  
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7. Virupaksha Devaramane, Panambur V. Bhandary, Harini Ramanan, Ann T Thomas, AmritaRishi, Harisha Kasturi, Mukund P. Srinivasan, Chethan A Jaiprakash, Safiulla B. Syed, Puneeth H Somashekar, Mungli Prakash, Veena Nayak  
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8. Smita Shenoy, Hemanth Kumar, Thashma, Veena Nayak, Krishnananda Prabhu, Priya Pai, Indu Warriar, Somayaji, Venu Madhav, KLbairy, Anoop Kishore  
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9. Lalit Mohan, Bharti Chogtu, Shalini Adiga, Smita Shenoy, K.L. Bairy Anoop Kishore  
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International Journal of Pharmacology and Clinical Sciences, June 2012 Vol.1, Issue2, 61-67
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Effect of ethanolic extract of Plectranthus Amboinicus lea fon healing of burn wound in Wistar rats International Journal of Applied Bilogy and Pharmaceutical Technology, Volume 3, Issue 3, July-Sept 2012, Page: 32-35 20.
11. Rajashekar Rao Barkaur, Laxminarayana K. Bairy  
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IJPSR Vol3, No.11, Nov. 2012 Page No. 512 – 522
12. Lalit Mohan, Ashutosh Kumar, Manas Ranjan Mishare, Anoop Kishore, Veena Nayak  
Usefulness of training of Pharmacovigilance for medical students – A perspective study International Journal of Pharmaceutical Sciences Review and Research Page 56-59
13. Elsa Sanatombi Devi, Ravindra prabhu, Bhanumathipp, Leena Dequiera, Sreemathi S mayya, Bairy KL, Manu Mohan K  
Identification of health problems of patients undergoing Hemodialysis using self care  
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**National (Indexed)**

1. Vijayalaxmi, Adiga S, Bhat P, Chatuvedi A, Bairy KL, Kamath Shobha  
Evaluation of the effect of *Ferula asafoetida* Linn. gum extract on learning and memory in Wistar rats.  
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2. Mrinmoy Chakrabarty, Priyanka Bhat, Sweta Kumari, Avin D'Souza, K. L. Bairy, Abhishek Chaturvedi, Archana Natarajan, Mohandas K. Rao, Shobha Kamath  
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3. Adiga SM, Meena KK, Bairy KL, Amberkar M, Vadiraja BM, Vidyasagr MS  
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6. Adiga S, Vinay BS, Shobha Kamath, Bhaskar Gaonkar, Amit Panda, Mohandas Rao KG, KL Bairy  
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9. Thiyagu Rajakannan, Surulivelrajan Mallayasamy, Vasudeva Guddattu, Asha Kamath,  
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3. Bharti C, Bairy KL, Himabindu P, Supirna D.  
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12. Marjorie AS, Bairy KL.  
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13. Satyam SM, Bairy KL, Rajadurai P, Rajdip L V.  
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14. Prashant BM, Anil T, Trilok M, Bairy KL.  
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15. Nayak V., Adiga S., Poornima B.M., Sharma R., Garg A., Shetty M., Kamath S., Hegde M., Koshy S.S.  
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3. Veena Nayak, Shakta Mani Satyam, Laxminaryana Bairy K., Chandrashekar BR, Pawan Kumar AV, Avinash M. Holla  
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4. Satyam SM, Bairy KL, Rajadurai P, Rao KGM, Mithun N.  
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30. Ajitha Sharma, Shalini Adiga, Bharti Chogtu, Aswini kumar Mohapatra, Rahul Magazine  
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41. Lalit Mohan, Meena Kumari K, Harihar Dikshit, Nihar Ranjan Biswas.  
Pharmacoeconomic exercise for undergraduate medical students.  
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Assessment of humanistic outcomes in psoriasis related diseases  
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43. Sharma A, Shetty M, Parida A, Adiga S, Kamath S, Sowjanya .  
Effect of ethanolic extract of *Acacia auriculiformis* leaves on learning and memory in rats.  
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 Use of Beta Blockers in Patients with Reactive Airway Disease and Concomitant Hypertension or Ischemic Heart Disease.  
 Res. J. Pharm., Biol. Chem. Sci 2014; 5: 1065-73
45. Liegelin Kavitha Bernhardt, K. Lakshminarayana Bairy, Sampath Madhyastha  
 N-Acetylcysteine for Gestational Stress-Induced Behavioral Toxicity  
 RJPBCS, Nov-Dec-2014,5(6); 513-520

### Details of books published during past two years ; NIL

Details of conference presentations during past two years

#### Year 2013

##### National

Sl. No.	Title of the presentation	Name of the faculty	Details of conference
1	Antibiotic Susceptibility Pattern of Pseudomonas aeruginosa to Antipseudomonal $\beta$ - lactams in Combination with Aminoglycosides or Fluoroquinolones	Dr. K. L. Bairy	46th Annual Conference of Indian Pharmacological Society held at NIMHANS Bengaluru from 16th to 18th December 2013.

#### Year 2013

##### International

Sl. No.	Title of the presentation	Name of the faculty	Details of conference
1	Use of beta blockers in patients with Reactive Airway Disease and concomitant hypertension or IHD	Dr Bharti Chogtu Magazine	ICPP 2013, Bangkok Thailand Dec 24-25,2013
2	“Evaluation of Antioxidant potential of Costus igneus in ethanol induced peroxidative damage in albino rats”	Dr Shivaprakash G	2013 Las Vegas International Academic Conference in Monte Carlo Resort and Casino,Sept 23-25, 3770 Las Vegas Blvd. South Las Vegas, NV 89109 USA

3	Study of Quality of life in psoriasis patients	Ms. Swapna	8th Asian Conference on Pharmacoeconomics (ACPE), Hong Kong 25 October 2013 - 27 October 2013
4	Pattern of adverse drug reactions with platinum compounds in cancer chemotherapy at a tertiary care hospital in South India	Dr Meena Kumari K	International Conference of pharmacology and pharmacy 2013 - 24th to 25th March 2013, Bangkok
5	A study of adverse drug reactions to medications used for treatment of bipolar disorder in a tertiary care hospital in south India	Dr.Smita Shenoy	Hong Kong Pharmacy Conference , Hong Kong March, 2013
6	Evaluation of excision wound healing activity of ethanolic extract of <i>Michelia champaca</i> in diabetic wistar rats	Dr.Smita Shenoy	International Conference on Pharmacy and Pharmacology, Bangkok, 24 <sup>th</sup> -25 <sup>th</sup> Dec, 2013
7	Hepatoprotective activity of ethanolic extract of <i>Terminalia paniculata</i> against Anti - tubercular drugs (ATT) induced hepatotoxicity in Wistar albino rats	Dr. Mohanbabu Amberkar	International Conference of pharmacology and pharmacy 2013 - 24th to 25th March 2013, Bangkok
8	The Effect Of <i>Costus Igneus</i> Extract On Learning And Memory In Normal And Diabetic Rats	Dr. Shalini Adiga	International Conference of pharmacology and pharmacy 2013 - 24th to 25th March 2013, Bangkok

**Year 2014****National**

Sl. No.	Title of the presentation	Name of the faculty	Details of conference
1	Research participants outreach program. Research Ethics & Human Research Protection Programs in Clinical Research	Dr. K. L. Bairy	Association for Accreditation of Human Research Protection Programs (AAHRPP) to be held from 7-8th November 2014. At TATA Memorial Hospital, Mumbai.
2	Effect of Betadine ointment and Sodium Fusidate cream on experimentally induced burn wound in Wistar rats	Dr. K. L. Bairy	60th Annual conference of Association of Physiologists and Pharmacologists of India to be held at Puri, Odisha, from 20th to 22nd of November 2014.

**Year 2014****International**

Sl. No.	Title of the presentation	Name of the faculty	Details of conference
1	A novel agent ameliorates IgE-mediated allergic conjunctivitis in Wistar rats.	Dr. K. L. Bairy	International Conference on Pharmacy and Pharmaceutical Sciences to be held at Singapore, SG from September 11 -12, 2014
2	A Study To Compare The Efficacy Of (Bupropion+ Naltrexone) Combination And Alpha Methyldopa Targeting Pro-Opiomelanocortin (POMC) Neuronal Activation In High Fat Diet Induced Obese Rats	Dr.Mohanbabu Amberkar	International Conference on Pharmaceutical, Medical & Environmental Health Sciences (IPharME 2014) at Penang, Malaysia. (17TH and 18th September)
3	Prevalance of osteoporosis among diabetics- A	Dr. Navin A Patil	International Conference on Pharmaceutical, Medical &

	prospective study		Environmental Health Sciences (IPharME 2014) at Penang, Malaysia. (17TH and 18th September)
4	“Assessment of Knowledge of Post Exposure Prophylaxis (PEP) of HIV among Healthcare Workers (HCWs) at a Tertiary care hospital in South India”.	Dr Shivaprakash G	“International Conference On Advances In Healthcare & Life Sciences” held at Singapore 8 and 9, November 2014, Management Development Institute of Singapore (MDIS)
5	Estimation of cost-of-illness among psoriasis patients on Bath PUVA	Ms. Swapna S	International Conference on Advances in Healthcare & Life-Sciences (ICAHL), Singapore November 8-9, 2014
6	Usage of Antimicrobial therapy in urinary tract infections in a tertiary care hospital	Dr Meena Kumari K	International Conference on Advances in healthcare & life-sciences 2014 - 08 <sup>th</sup> to 09 <sup>th</sup> Nov 2014, Singapore
7	Evaluation of wound healing activity of oral administration of ethanolic extract of <i>Michelia champaca</i> in diabetic wistar rats	Dr.Smita Shenoy	International Conference on Advances in Healthcare and Life-Sciences, Singapore, 8 <sup>th</sup> -9 <sup>th</sup> Nov, 2014
8	Evaluation of antidiarrhoeal activity of ethanolic extract of <i>Taxus baccata</i> in wistar rats	Dr. Shalini Adiga	APPICON 2014 conference in Nov 22 <sup>nd</sup> 2014

## 12. Placement record of the past students and the contribution of the department to aid Student Placements.

Nil

## 13. Plan of action of the department for the next five years.

- To establish Molecular pharmacology laboratory
- Training of faculty in molecular biology techniques
- To obtain more grants from external agencies for carrying out research.
- To have international collaborative studies.

**1. Name of the Department: FORENSIC MEDICINE – KMC- Manipal.**

**2. Faculty profile - adequacy and competency of faculty**

There are 09 teaching faculty members consisting of 2 Professors, 3 Assoc. Professors, and 4 Assist. Professors meeting the Medical Council of India requirements on training and qualification for UG training and PG training. In addition, there are 8 Tutors. Staff availability in the department is adequate. All the faculty members are competent.

**Faculty list :**

Sl. No	Name of the staff	Qualification	Designation	Teaching Experience in years
1	Dr Vikram Palimar	MBBS,MD	Professor &Head	10
2	Dr G Pradeep Kumar	MBBS, MD	Professor	29
3	Dr Vinod C Nayak	MBBS,MD	Assoc. Prof.	9
4	Dr Prashantha Bhagavath	MBBS, MD,DNB	Assoc. Prof.	8
5	Dr Shankar M Bakkannavar	MBBS, MD	Assoc. Prof.	6
6	Dr Pavanchand Shetty	MBBS, MD	Asst. Prof.	3
7	Dr Ashwini Kumar	MBBS, MD	Asst. Prof.	3
8	Dr Haneil Larson D'Souza	MBBS, MD	Asst. Prof.	3
9	Dr Anitha S.	MBBS, MD	Asst. Prof.	1
10	Dr Ganesh R	MBBS	Tutor	
11	Dr Paramaguru V	MBBS	Tutor	
12	Dr Azim Ahdar M.P.	MBBS	Tutor	
13	Dr P. Ranjit I. James	MBBS	Tutor	
14	Dr Baishwanar Banerjee	MBBS	Tutor	
15	Dr Sajan Babu	MBBS	Tutor	
16	Dr Nirmal Krishnan M	MBBS	Tutor	
17	Dr Kaushal Kishore	MBBS	Tutor	

**List of faculty position sanctioned and filled**

Category	Sanctioned	Filled
Teaching	05	09
Tutors	05	08

### 3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 for details

### 4. 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 Medical Council of India. The department strictly complies with the laid down requirement and the board of studies of the department in the university periodically reviews and updates the course keeping in mind the needs of the system and society.

#### MD-Forensic Medicine University Exam pattern

Old pattern (100 marks)	New pattern (100 marks)
20 marks : 2 questions	15 marks : 2 questions
10 marks : 6 questions	7 marks : 10 questions

#### II MBBS-Forensic Medicine University Exam pattern

Old pattern (80 marks)	New pattern (100 marks)
MCQ ½ mark : 40 questions	MCQ 1 mark : 20 questions
Essay 6 marks : 4 questions	Essay 10 marks : 2 questions
Essay 3 marks : 12 questions	Essay 4 marks : 15 questions

Board of studies in Forensic Medicine meets regularly once in six months and discusses the various issues regarding the curriculum. Modification in the curriculum is made periodically keeping in mind the recent trends in the subject as per the guidelines of regulatory body (MCI).

### 5. Trends in the success and drop out rates of students during the past two years

#### Success rate of the students in last two years:

Course	Pass Percentage			
	May 2013	December 2013	May 2014	December 2014
MBBS	66.66%	98.78%	100 %	97.89%

Course	Pass Percentage	
	April 2013	April 2014
MD-Forensic Medicine	100 %	100 %



**Drop out rate in Undergraduate courses is**

Dropout Rate	
2012-2013	2013-2014
0.8	2
0	0

Drop out rate in Postgraduate courses is zero.

#### 6. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped departmental library with over 119 books and 7 Journals for the use of the faculty and students.

University has provided the entire teaching faculty with laptop and internet facility. In addition department has 4 computers, 5 printers, 1 typewriter and internet facility for the smooth functioning of the medicolegal works. Computers with internet facility is also available to the Postgraduate students in the department.

The department has 4 spacious laboratories which can accommodate upto 100 students each with dimensions as per MCI requirements with adequate audio-visual aids.

Department has a museum over an area of 300 sq.m containing 285 specimens, 140 charts and 631 Photographs. Departmental faculties have also developed self learning and e-learning modules in Forensic Medicine which are freely accessible to students.

#### 7. Modern teaching methods practiced and use of ICT in teaching – learning

Teaching learning methods employed for the undergraduate students are as follows:

Lecturing for theory with the use of audio visual aids like over head projectors, Power Point and multi-media for teaching.

Practicals are organized in small groups so that teachers can give personal attention to impart practical viewpoints of the subject with emphasis on applied knowledge.

Every Undergraduate is made to attend at least 10 autopsies in his second academic year (3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> semesters) to know the various techniques employed and procedures involved in medicolegal autopsies. Post mortem reports are to be written for the cases witnessed by the students. This is done to inculcate a systemic viewpoint to go about with the medicolegal autopsies, so that at the end of the academic year he will be able to independently do an autopsy and draft a postmortem report.

Teaching learning methods employed for the postgraduates are as follows:

Assisting in Medico legal works wherein hands on experience is given to the postgraduates so that at the end of the academic career they can independently handle the cases competently.

Attending Lecture classes along with the undergraduates.

Practical classes are to be taken by the Tutors for the undergraduates with prior presentation and approval from the department.

Assisting in crime scene visits to incorporate observatory skills, documentation and collect evidentiary materials giving importance to finer details.

Court visit with staff to sensitize with the legal procedures.

Tutorials of the concerned subtopics in the subject to reinforce learning and assesment of knowledge.

Journal Club for recent updates in the subject and research orientation.

Seminars to improving communicative skills and encourage in depth learning.

Attending Conferences, CME & Workshops to share and gain knowledge and present papers in the various conferences.

#### **8. Participation of teachers in academic and personal counseling of students**

Every batch of UG students (a group of 6-7 students) are equally divided among the staff members for personal interaction and mentoring. They are responsible for academic and personal development of their wards.

Postgraduates do the lab works under the supervision of faculty members.

Postgraduates undertake their dissertation work under the guidance of faculty assigned by the head of the department as per the eligibility criteria of PG teachers.

Postgraduates are encouraged to present papers in national conferences.

#### **9. Details of faculty development programmes and teachers who have been benefited during the past two years**

Six faculties have attended faculty development programmes pertaining to teaching-learning and evaluation in the past two years. However all the faculty underwent training regarding the same in the past. At present one of the department faculty is serving as the member of the “Manipal Center for Professional Development” which conducts faculty development programmes.

All faculty members regularly attend various scientific programmes like conferences, workshops, symposia and Continuing Medical Education (National and International). In the past 2 years faculty of the department have attended at least 27 such programmes.

#### **10. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

All the faculties are actively involved in teaching undergraduate and postgraduate students.

All of them actively participate in dissertation projects and research activities.

### 11. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years.

Manipal Poison Detection Center – An analytical toxicology lab. Joint venture with department of biochemistry, KMC, Manipal.

There is collaboration with all departments of the medical college and other constituent colleges of the university like Manipal College of Dental Sciences, for teaching the undergraduates and postgraduates.

Interdepartmental collaborations are done effectively incorporate the integrated teaching method for undergraduates (with Neurology, Pediatrics and Medicine departments).

There is collaboration with all other departments of the medical college and other constituent colleges of the Manipal University in conducting the research.

### 12. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years.

#### Ongoing

Category	Number
Funded research projects	1
Non-funded research projects	4
PhD research projects	0
PG research projects	5
UG research projects	4

#### Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		2	2	3
Completed PhD research projects		0	0	0
Completed PG research projects		2	2	3
Completed UG research projects		0	0	1
Publications	International	13	10	17
	National	6	7	7
Books		0	0	0
Chapters in books		0	0	0
Conference presentations	International	5	6	10
	National	16	32	14

### Completed non-funded research / PG Projects:

2012	1	Fatal Deliberate Self Harm – A Manipal Perspective”
	2	Correlation of Cellular Autolytic Changes in Bone Marrow with Postmortem Interval”
2013	1	Correlation of Various Parameters for Gestational Age Estimation
	2	Combined Analysis of Total Creatine Kinase in Serum and Myoglobin in Urine to Investigate Skeletal Muscle Trauma in Medicolegal Autopsies
2014	1	Validity of McKern and Stewart’s Pubic Symphyseal Aging Criteria in Karnataka Population
	2	Estimation of Stature from Percutaneous Tibial Length
2014	3	Gender Determination from Corpus Callosum

Priority areas for Research are Forensic Pathology Forensic Anthropology, Forensic Psychiatry and toxicology.

### Ongoing research projects:

1. Sex identification in South Indian population using Multidetector computed tomography of the Maxillary Sinuses.
2. The Stature Estimation from Cranial Measurements
3. Estimation of Stature from Inter-acromial length.
4. Determination of age and sex from hyoid Bone
5. Factors affecting fatality following Trauma

Some of the research projects are in the process of application for grants from external funding agencies.

### List of note worthy publications of the faculty, during past three years:

#### 2012

#### International – Indexed

1. Palimar V, Vidhi, Gupta C Fatal Deliberate Self-harm in Adolescents- A Manipal Perspective. Research Journal of Pharmaceutical, Biological and Chemical Sciences .Vol 3(2) 2012, 401-406.
2. Gupta C, Palimar V, Murlimanju BV , Vaishali R Shetti. A Morphological Study of Variations in the Origin and Course of Radial Artery Research Journal of Pharmaceutical, Biological and Chemical Sciences Vol 3(2) 2012, 333-340.
3. Bhagavath P, Monteiro FNP, Gnanadev N.C. Epidemiology of intentional self-harm by poisoning. Medico-Legal Update - An International Journal 2012; 12 (1): 52-54.

4. Rajesh S, Jayaprakash K, Vishwajeeth K Pai, Monteiro FNP, Bhagavath P. Deliberate self-harm: Socio-demographic profile. *Medico-Legal Update - An International Journal* 2012; 12 (1): 23-25.
5. Monteiro FN, Kanchan T, Bhagavath P, Kumar GP, Menezes RG, Yoganarasimha K. Clinico-epidemiological features of viperine snake bite poisoning: A study from Manipal, South India. *Singapore Medical Journal*. 2012; 53(3): 203-207.
6. Sushith, Jeevan K Shetty, Bhagavath P, Archana N, Ranjani HS, SuhasiniShedthi, Shobith Kumar Shetty, Ashok Kumar J; Comparison between Lipid profile and Atherogenic index of plasma (AIP) in alcoholic and non-alcoholic diabetic patients in the Mangalore district., *Int J A J Institute of Medical Sciences*, 2012; Vol.1, No.1: 10-14.
7. Kamath P, Pai ND, Monteiro FNP, Bhagavath P, D'Souza H, Kaushal R. Anomalous Left Coronary Artery from Main Pulmonary Artery – A case report. *Medico-Legal Update - An International Journal*, 2012; 12 (2): 45-48.
8. D'Souza K, Kumar PK, Jayaprakash K, Monteiro FNP, Bhagavath P, Sheena K, D'Souza H. A Study of Maternal Mortality at a Tertiary Health Care center in Mangalore, Karnataka. *Medico-Legal Update - An International Journal*, 2012; 12 (2): 66-69.
9. Khannavinay, Bairy Indira, MaradiRavindra, Khanna Ruchee, Vishwanath Sashidhar, ManjunathSathyanarayanachar. Cross sectional study of symptomology among patients with recent and established HIV 1 infection. *Journal of Pharmaceutical and Biomedical Sciences (JPBMS)*, Vol. 23, Issue 23, 2012
10. YP RaghavendraBabu, S Manjunath, Shankar M Bakkannavar, JenashAcharya, GN Pramod Kumar. Colchicine poisoning: a case report and review of literature. Published online on 31 August 2012 *Med Sci Law*, doi: 10.1258/msl.2012.012025
11. Tanuj Kanchan, Vaman Kulkarni, Shankar M. Bakkannavar, Nithin Kumar, B. Unnikrishnan. Analysis of fatal road traffic accidents in a coastal township of South India. *Journal of Forensic and Legal Medicine* 19 (2012) 448-451
12. S Manjunath, Shankar M Bakkannavar, Pradeep Kumar G, Vrinda J Bhat, NayanaPrabhu, AshaKamath, RaghavendraBabu Y P. Palatal rugae patterns among the Indians at Manipal, India. *Journal of Pharmaceutical and Biomedical Sciences JPBMS*, 2012, 20 (20): 1 – 5.
13. Shankar M. Bakkannavar, Francis NP Monteiro, Arun M, G Pradeep Kumar. Mesio-distal width of Canines- A tool for Sex Determination. *Med Sci Law*. January (2012) 52:22—26.

#### National – Indexed

1. Vikram Palimar, Shankar M Bakkannavar. Incidence of Electrocution Deaths in Manipal. *Journal of South India Medicolegal Association*. 4 (2012) 55-57.

2. B. Suresh Kumar Shetty, TanujKanchan, Ritesh G. Menezes, Shankar M. Bakkannavar, Vinod C Nayak, K. Yoganarasimha. Victim Profile and Pattern of Thoraco-Abdominal Injuries Sustained in Fatal Road Traffic Accidents. *J Indian Acad Forensic Med.* Jan-Mar 2012, vol. 34, No.1; 17 – 20.
3. Vinod C Nayak, Shankar M. Bakkannavar, GururajBiradar, G. Pradeep Kumar, Amar R. Epidemiology of Rodenticide poisoning in Manipal. *Journal of South India Medicolegal Association.* 4 (2012) 46-49.
4. Ritesh G. Menezes, Shankar M. Bakkannavar, Pradeep Kumar G, S Manjunath, RaghavendraBabu Y P, Vinod C Nayak. Alleged dowry-deaths: A preliminary analysis of the autopsy evidence. *Journal of South India Medicolegal Association* 4 (2012) 61-64.
5. Chandrakanth HV, Pramod Kumar GN, Smitha Rani, Shankar M. Bakkannavar, Balaraj BM. Fatal myocardial infarction in bus driver - A case report. *Indian Journal of Forensic Medicine and Pathology.* 5(1), 2012; 43 – 45.
6. Palimar V, Gupta C, Neena PAV. Prediction of stature from foot length. *Indian Journal of Forensic Medicine and Pathology.* 5(2), 2012; 67 – 71.

### **2013**

#### **International – Indexed**

1. Gupta C, Radhakrishna P, Palimar V, D'Souza AS, Kiruba N L. A quantitative analysis of atlas vertebrae and its abnormalities. *J. Morphol.Sci*, 2013, 30(2) pg:77-81.
2. Vinayachandra P H, Francis N P Monteiro, Jayaprakash K, Bhagavath P, Viveka S, Haneil Larson D'Souza. A Study on Stapes Morphometry from Mangalore, Karnataka. *Medico-Legal Update - An International Journal* 2013; 13 (12): 69-73.
3. Vinayachandra PH, Francis N P Monteiro, Jayaprakash K, Bhagavath P, Viveka S. Estimating Stature from Percutaneous Length of Ulna in South Indian Population. *Medico-Legal Update - An International Journal* 2013; 13 (12): 74-77.
4. Shankar M Bakkannavar, Vinod C Nayak, Pratik V Taravadi, Pradeep Kumar G. Fatal Curling's ulcer after burns in a child-A case report. *Medico-Legal Update.* 2013; 13(1): 10 – 12.
5. Pradeep Kumar G, Shankar M Bakkannavar, Potty Chinmayee. Cardiac Aneurysm – A Nature's way of Correction. *Am J Forensic Med Pathol.* Vol 34(3), Sept 2013; 228-230.
6. Smitha Nayak, Vinod C Nayak, Shankar M Bakkannavar, Ravi Bagali. Are SMS Reminders an Antecedent to Outpatient 'Show-ups'? *J Pharm Biomed Sci.* 2013 July; 32(32): 1329-1332.



7. Pavanchand Shetty, S Sasikumar, YP Raghavendra Babu, Ashwini Kumar, Vinod C Nayak, Shankar M Bakkannavar, Vikram Palimar, Pradeep Kumar G. Pericardial fluid analysis: an attempt to correlate with postmortem interval. *J Pharm Biomed Sci.* 2013 August; 33(33): 1449-1453.
8. Shankar M Bakkannavar, Pratik V Taravadi, Pavanchand Shetty ,Raghavendra Babu YP, Vinod C Nayak, Pradeep Kumar G. Gender Differentiation using Inter-Canine Distances among South Indians. *Journal of pharmaceutical and biomedical sciences. J Pharm Biomed Sci.* 2013 November; 36(36): 1860-1865.
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5. Ashwini Kumar, Sowmya Shashidhara, Shankar M Bakkannavar, Shyla Bhat, Pradeep Kumar G, Vikram Palimar. Mystery behind a sudden death – a case report. Indian Journal of Forensic and Community Medicine 2014; 1(1): 49-52.
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7. S Sasi Kumar, Pavanchand Shetty, Shankar. Estimation of Stature from Middle Finger length-in Salem region. Ind J Forensic Med & Tox. July-Dec 2014, Vol.8, No 2. Pg 31-32, DOI Num:10.5958/0973-9130.2014.00676.8

### **13. Placement record of the past students and the contribution of the department to aid student placements**

Nil

### **14. Plan of action of the department for the next five years**

- Department plans to implement competitive approach towards teaching learning methods and assesment as and when required.
- The department is planning to create new audio-visual aids for teaching the theory and practical, in the form of photographs, videos and power point presentations.
- To motivate the staff to do research, publications and attend conferences and CMEs, both national and international.
- To improve interdepartmental research projects.
- Upgradation of mortuary is planned.
- To motivate the students towards the subject by organizing the national quiz competition “COMPOS MENTIS” annually.
- To conduct CME programmes /workshops for Medical officers of Udupi District.
- To continue the conduct of police training programme for Udupi District Police.
- To conduct CME programme / workshops for Lawyers and Judicial officers of Udupi District.
- To develop toxicology wing of department.
- To Develop and train staff members in DNA analysis in medicolegal cases.

**1. Name of the Department: COMMUNITY MEDICINE – KMC – Manipal.**

**2. Faculty profile - adequacy and competency of faculty**

The department has 15 teaching faculty that meets the requirements of the regulatory bodies for Undergraduate and Postgraduate training .

Sl.No	Name	Qualification	Designation	Teaching Experience in years
1	Dr.Avinash Shetty	MBBS, MD	Professor & Head	13
2	Dr. Vinod Bhat H	MBBS, MD	Professor	26
3	Dr.Pawan Kumar	MBBS, MD	Professor	25
4	Dr.Veena G.Kamath	MBBS, MD	Professor	15
5	Dr.Shashi Joyce Soans	MBBS, MD	Assoc. Prof.	16
6	Dr.Ashwini Kumar	MBBS, MD	Assoc. Prof.	12
7	Dr.Suma Nair	MBBS, MD	Assoc. Prof.	10
8	Dr.George P Jacob	MBBS, MD	Assoc. Prof.	8
9	Dr.Ranjitha Shetty	MBBS, MD	Assoc. Prof.	7
10	Dr.Muralidhar M K	MBBS, MD	Assoc. Prof.	8
11	Dr.Chythra R Rao	MBBS, MD, DNB	Assoc. Prof.	6
12	Dr. Sanjay Pattanashetty	MBBS, MD	Assoc. Prof.	5
13	Dr.Asha Kamath	MSc, MPhil, PhD	Assoc. Prof.	19
14	Dr.Kirthinath Ballala	MBBS, MD	Asst. Prof.	3
15	Dr.Sneha Deepak Mallya	MBBS, MD	Asst. Prof.	3
16	Dr.Arti Rao	MBBS	LMO	1
17	Dr. Akshay	MBBS	Tutor	<01
18	Dr. PriyaRathi	MBBS	Tutor	<01
19	Dr. Shankar	MBBS	Tutor	<01
20	Dr. Eshwari	MBBS	Tutor	<01
21	Dr. Sravan	MBBS	Tutor	<01
22	Dr. Ayushi	MBBS	Tutor	<01
23	Dr. Saranya	MBBS	Tutor	<01
24	Dr. Uttam	MBBS	Tutor	<01
25	Dr. Muthu Kumar	MBBS	Tutor	<01
26	Dr. Surabhi	MBBS	Tutor	<01

27	Dr. Zari Anjum	MBBS	Tutor	<01
28	Dr. Swathi Guha	MBBS	Tutor	<01

Category	Sanctioned	Filled
Teaching Staff	16	16
Tutors	07	12

- There are additional 05 tutors working in the department

## 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc

Please refer Annexure no. HS 1 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 undergraduate and postgraduates course of the department is governed by the regulatory bodies like the MCI. The pattern of the question papers for the UG and PG courses have been modified as decided in the BOS meeting. The department has introduced a component of OSPE in the practicals for the undergraduate. During the 4<sup>th</sup> semester clinical posting, the UGs are given a project that involves data collection and data entry onto a software, analysis and report writing so as to sensitize them on the components of research. All these changes have been brought in after faculty brainstorming sessions.

## 4. Trends in the success and dropout rates of students during the past two years.

Course	2012-2013	2013-2014	2012-2013	2013-2014
	MBBS	95.4%	80%	0.8
MD	100	100	0	0

## 5. Learning resources of the departments - library, computers, laboratories and other resources.

The department has an airconditioned library with a seating arrangement for 10-12 persons at any point in time. The library has 1330 books and a journal section.

The department has an excellent museum that provides an opportunity of visual learning for the UGs. The museum covers all the undergraduate topics on the subject. The department also has a well-equipped computer laboratory with an internet connection that is used by the UGs and PGs for research. The lab is also used for providing hands on experience during workshops conducted by the department on Epidemiology and Biostatistics.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled.

The department has two airconditioned demonstration rooms equipped with LCD projector and screen, and blackboards to facilitate teaching and learning. Each of these can accommodate 80 students at a time

The department has a well equipped public health laboratory for PG training.

#### **6. Modern teaching methods practiced and use of ICT in teaching – learning.**

The department uses a mix of different techniques to train the students. Regular classroom lectures are made more interesting with video presentations. During their clinical postings, the students are taken into the community to improve their communication and observation skills and sensitize them to the living conditions and cultural variations in the community.

Research skills of the students are finetuned by the department faculty during their 2 months clinical posting in the department they are first introduced to the fundamentals of research and the importance of data. They are made to appreciate the manual data entry and analysis. They are also trained on data entry softwares and are given hands on training to enter the data they have collected during the course of their clinical postings.

The students also are involved in clinicosocial case presentations and specifically trained to look at the multifactorial causation of diseases other than medical causes. They are also made to present seminar on certain important topics of public health importance. These presentations gives them the opportunity to public speaking.

The department is also coordinating with other departments for integrated teaching on some topics.

The postgraduate teaching involves classroom teaching, seminar presentations, discussions, journal reviews.

#### **7. Participation of teachers in academic and personal counseling of students.**

The facultyare actively involved in all PGs and UGs training programmes. All faculties are easily accessible and available to the students during the working hours and even afterwards on phone. A very healthy learning atmosphere is made available to the students to approach the faculty to clear their doubts.

The faculty are also the teacher guardians for 6-8 students and do provide them counseling sessions on a one to one basis whenever approached.

#### **8. Details of faculty development programmes and teachers who have been benefited during thepast two years.**

The faculties attend faculty development programmes conducted by the Medical Education unit, KMC Manipal under the Manipal University. The faculties also make it a point to attend atleast one conference and a workshop in a year.

### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

All the faculty are actively involved in UG and PG training. There is an equal distribution of classes for the faculty for clinical, theory and practical undergraduate teaching as well as for postgraduate training.

In the field of research, the teachers also guide the ICMR STS students to carry out research. At any point in time there would be 2-3 faculties having STS students under them. The department also has a few ICMR funded projects going on in the department.

The department has a fulltime statistician as a faculty in the department who provides statistical consultation to all the students of the institution.

The department at any point of time has 2-3 projects being carried out by the department faculty.

There are at present 2 full time PhD scholars being guided by the department faculty.

### 10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.

In academics, the department coordinates with the other departments for integrated teaching of undergraduates. In research, there are various ICMR funded interdisciplinary projects that are being conducted by the department.

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Priority areas: Non Communicable Diseases, Infectious diseases, Maternal and child health, adolescent health

A snapshot of our research activities and publication activities is given in the tables below:

#### Ongoing:

Category	Number
Funded research projects	9
Non-funded research projects	0
PhD research projects	2
PG research projects	8
UG research projects	7

#### Last 3 years (2011-2014):

	2012	2013	2014
Completed funded research projects	2	0	1
Completed non-funded research projects	0	0	0



Completed PhD research projects		0	0	0
Completed PG research projects		2	4	2
Completed UG research projects		2	2	2
Publications	International	17	16	9
	National	6	0	43
Books		1	0	0
Chapters in books		1	0	0
Conference presentations	International	4	0	2
	National	2	3	3
	State	1	1	4

**The detailed outline of projects is given below:**

**Our on-going funded research projects are**

Sl.no.	Title	Principal Investigator	Funding agency	Total amount received
1	ICDS Monitoring Project as State Monitoring Unit	Dr. Pawan Kumar	NIPCCD, Delhi	Rs. 96,000 annually
2	Adolescent Health Care in two districts of Coastal Karnataka - An Exploratory study	Dr. Asha Hegde	2013-2015	Rs. 21.88 lakhs
3	A phase III Study to evaluate Immune Non Inferiority and safety of the All In One Liquid formulation of a Live Attenuated Tetravalent (G1-G4) Bovine-Human Reassortant Rotavirus vaccine (BRV-TV) to a licensed vaccine Rotateq when administered concomitantly with other routinely recommended vaccines for the age.	Dr. Avinash Shetty	2014-2015	Rs. 19,60,000/-
4	Screening for human papilloma virus & other ICMR DNA view infections of the cervix	Dr. Ranjitha Shetty	2014-2017	Rs. 37,00,000/-

	among tribal women in southern India			
5	Randomized Phase III Rota Vaccine Trial	Dr Veena Kamath	2014-2017	Rs. 4,99,01,573 /-
6	A community based assessment of visual, hearing and psycho-social morbidities among geriatric population in coastal Karnataka, India	Dr Ranjitha Shetty	2015-2017	Rs. 28,77,358/-

#### Our ongoing PhD research projects are:

Sl.No.	Title	Name of student	Name of the guide
1	Effectiveness of group intervention in Ameliorating stress in adolescent males	Mr. Kallol Roy	Dr. Veena G Kamath
2	Prevalence of Work Related Musculoskeletal Disorder and Effect of Structured Ergonomic Intervention on Upper Quadrant Function and QOL among Medical Laboratory Professionals	Mrs.Parul R Agrawal	Dr. Veena G Kamath
3	Prevalence of Human Papilloma Virus in UdupiTaluk, Udupi District, Karnataka, India	Ms.Sabeena S	Dr. Veena G Kamath (Co-Guide)
4	Validation of autoantibodies and their combined role with clinical, anthropometric and behavioural factors in predicting breast cancer risk in Indian women.	Ms.Tejas	Dr. Suma Nair
5	Recognition of movement qualities of children with developmental coordination disorder: an exploratory study	Ms.Srilatha	Dr. AshaKamath(Co-Guide)

#### Our ongoing PG research projects are:

Sl.No.	Title	Name of the research scholar	Guide
1	Estimation of annual cost	Dr. Eshwari	Dr. Veena G

	incurred in the management of type 2 diabetes mellitus and its co-morbidities in coastal Karnataka-A community based study		Kamath
2	Determinants and Effectiveness of a worksite health intervention programme to promote healthy lifestyles among Bank Employees in the Udupi municipal area: A Cluster randomized controlled trial	Dr. AkshayNabar	Dr. Suma Nair
3.	Prevalence and factors associated with anaemia in adolescents in a district of coastal Karnataka –A corss sectional study	Dr. AyushiAgrawal	Dr. AvinashShetty
4.	A follow up study to assess the effectiveness of an intervention like health education on knowledge levels about HIV in high school	Dr. Sravan Kumar	Dr. Pawan Kumar
5.	Utilization of integrated child development services (ICDS) scheme in the field practice area of Kasturba Medical College, Manipal Karnataka	Dr. SaranyaSrinivasan	Dr. Ashwini Kumar
6.	Evaluation of current status of individuals screened positive for Diabetes and Hypertension under National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular diseases and Stroke (NPCDCS) in Udupi district, Karnataka.	Dr. Uttam Kumar	Dr. Veena G Kamath
7.	Type 2 Diabetes Mellitus in a cohort of newly diagnosed Tuberculosis patients in Udupitaluk of Karnataka	Dr. Muthu Kumar	Dr. Suma Nair
8.	"Incidence of Gestational Diabetes Mellitus and associated	Dr. Surabhi Mishra	Dr. Avinash Shetty

	Risk factors among Pregnant Women in South India: a Community Based Study		
9.	Awareness and Utilization of Government health related schemes by urban and rural population in coastal Karnataka	Dr. ZariAnjum	Dr. Ashwini Kumar
10.	A population based case control study and assessment of quality of life of stroke patients among adult population of Udupitaluk	Dr. SwathiGuha	Dr. Pawan Kumar

**Our ongoing UG research projects are:**

Sl.No.	Title	Name of student	Name of the guide
1	A Cross sectional study on relational behaviors among male adolescents	GanityaBhusanBhuyana	Dr. Sneha D Mallya
2	A case-control study on socio-demographic parameters and risk factors of colorectal cancer among patients attending tertiary care hospital in southern Karnataka.	MsRashmiAithal	Dr. Ranjitha S Shetty
3	A Knowledge Attitude, Behaviour and Practice (KABP) study regarding Life style modifications to prevent Diabetes Mellitus (DM) among medical faculty working in a Medical College.	Sumukh R Hegde	Dr. Kirthinath Ballal
4	An Attitude and Practice study regarding participation as research subjects among medical professionals of a medical college and tertiary healthcare centre in South India.	MsReethika Thatikonda and MsRamya Narasimhan,	Dr. Kirthinath Ballal

**Our completed funded research projects are  
Year 2012**

Sl.no.	Title	Principal Investigator	Funding agency	Total amount received
1	A Multicenter Prospective Hospital Based Surveillance to Estimate the Burden of Rotavirus Gastroenteritis in Children Less Than Five Years of Age in India	Dr. Veena G Kamath	ShanthaBiotechnics Ltd	Rs. 2,61,000/-
2	Evaluation of Functioning of ASHA in ICDS Activities	Dr. Pawan Kumar	NIPCCD, Delhi.	Rs. 43,000
3	“Burden and economic cost of dengue in India: A study at Major Teaching Hospitals and Nearby Ambulatory Institutions	Dr. Pawan Kumar	INCLN, Centre for Research on Medical Entomology (CRME) and Santosh University in collaboration with Brandies University, USA	Rs. 100,000 as RA’s salary
4	Epidemiological survey of Employees and dependents of KGS, CISF, AESC and other DAE employees stationed at Kaiga	Dr. Veena G Kamath	NPCIL	Rs 5,64,075.00/-

**Our completed PhD research projects are:**

**Year 2012-** Nil

**Our completed PG research projects are:**

**Year 2012**

Sl.No.	Title	Name of the research scholar	Guide
1	A study to assess hemoglobin level among recently delivered mothers attending immunization clinic in rural field practice area	Dr. Darshan B B	Dr. Ashwini Kumar

2	“Pregnancy outcomes among women in the field practice area of a teaching hospital in Coastal Karnataka – A longitudinal study”	Dr. Sujatha	Dr. AvinashShetty
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**Year 2013**

Sl.No.	Title	Name of the research scholar	Guide
1	‘Prevalence of hypertension in young adults in the Field Practice area of the department’	Dr. Sanjay Kini	Dr. Veena G Kamath
2	A Community based study to assess the Quality of Life and its determinants among Type 2 Diabetes Mellitus patients in the field practice area of KMC, Manipal	Dr. Varun N	Dr. Pawan Kumar
3	“Prevalence of Chronic Obstructive Pulmonary Disease (COPD) in a rural community in coastal Karnataka”	Dr. Avinash Kumar	Dr. Suma Nair
4	A Community Based Prospective Study To Evaluate the Efficacy of the Second dose of measles Vaccination under the Universal Immunization Program in Coastal Karnataka,	Dr. Sathiyarayanan	Dr. Pawan Kumar

**Year 2014**

Sl.No.	Title	Name of the research scholar	Guide
1	Study of morbidity pattern and utilization of health services among sub-centre population	Dr. Shankar	Dr. Ashwini Kumar
2	Prevalence of osteoporosis and related risk factors among elderly population of age 40 years and above in a rural community in coastal Karnataka – A cross sectional study	Dr. PriyaRathi	Dr. Avinash Shetty

**Our completed UG Research Projects are:****Year 2012**

Sl.No.	Title	Name of the Student	Guide
1	Assessment of cultural beliefs and practices during the post natal period in a coastal town of South India - A mixed method research study	MsDhanya SM	Dr. Chythra R Rao
2	Knowledge, attitude and practice regarding cervical cancer, its prevention and control among rural women in southern Karnataka.	MsSahanaUdupa	Dr. Ranjitha S Shetty

**Year 2013 -Nil****Year 2014- Nil****The details of our publications are described below****Year 2012****(International – Indexed )**

1. Mohan K. Papanna, Pawan Kumar, Avinash Shetty, Asha Kamath, UnnikrishnanBhaskaran, and SahooSaddichha: “Client Satisfaction with HIV Counseling Services: A Cross-Sectional Study from South India”;Journal of the International Association of Physicians in AIDS Care 00(0) 1-4.
2. Mohan K. Papanna, Pawan Kumar, Avinash Shetty, UnnikrishnanBhaskaran, Vaman Kulkarni, Sahoo, Saddichha and Indira B Poojary: “Evaluation of Integrated Counselling and Testing Centres (ICTC) for HIV in a District of India”; International Journal of Public Health Research Vol 2 No 2 2012, pp (168-176).
3. Pandit V, Kumar A, Kulkarni MM, Pattanshetty SM, Samarsinghe C, Kamath S. Study of clinical profile and antibiotic sensitivity in paratyphoid fever cases admitted at teaching hospital in south India. Journal of family medicine and primary care. vol 1.118-21.2012
4. Vinodini NA, Tripathi Y, Raghuvveer CV, Ranade AV, Kamath A, Pai SR. Effect of antioxidants (Vitamin C) on tissue ceruplasmin following renal ischemia reperfusion in wistar rats. Int J Biomed &Adv Res 2012; 3(1): 36-39.
5. Thiyagu R, Surulivelrajan M, Vasudeva G, Kamath A, Vilakkthala R, Rao PGM, Bairy LK. Cost of adverse drug reactions in a South Indian tertiary care teaching hospital. J ClinPharmacol 2012;52: 559 – 565.



6. Nayantara AK, Tripathi Y, Nagaraja HS, Jeganathan PS, Ramaswamy C, Ganaraja B, Pai SR, Kamath A. Effect of chronic immobilization stress on some selected physiological biochemical and lipid parameters in wistar albino rata. *Research Journal of Pharmaceutical, Biological and chemical Sciences* Jan – Mar 2012; 3(1): 34 – 42.
7. Tejaswini S, Subbannaya LK, Kamath SU, Kamath A. The need to rule out thyroid dysfunction in anxiety disorders. *Middle East Journal of Psychiatry and Alzheimers* Mar 2012; 3(2): 3-7.
8. Girish N, Kamath R, Maiya AG, Kamath A. Prevalence of Musuloskeletal disorders among cashew factory workers. *Archives of Environmental & Occupational Health* 2012; 67(1): 37 – 42.
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1. Kulkarni MM, Kamath VG, Sujatha K, Darshan B B, Varun N, Asha, Coverage and compliance of mass drug administration programme against filariasis in Bijapur District. *Journal of Public Health and Medical Research*, January/ 2013(1) 9-12

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Nil

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### **International - Indexed**

1. Donald S. Shepard, Yara A. Halasa, Brij Kishore Tyagi, S. Vivek Adhish, Deoki Nandan, Narendra K. Arora, and the INCLEN Study Group -Pawan Kumar et al., Economic and Disease Burden of Dengue Illness in India, Accepted for Publication, the *American Journal of Tropical Medicine and Hygiene*, Published online October 6, 2014; doi:10.4269/ajtmh.14-0002. The latest version is at <http://ajtmh.org/cgi/doi/10.4269/ajtmh.14-0002>
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3. Veluswamy S K, Maiya A G, Nair S, Guddattu V, Nair NSK, Vidyasagar S, 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 Behavioral Nutrition and Physical Activity* Impact Factor: 3.68, 11:27, Feb 2014, doi:10.1186/1479-5868-11-27
4. Punia S, Nair S, Shetty SR, Health Care Workers and Standard Precautions: Perceptions, and Determinants of Compliance in the Emergency and Trauma,

- Triage of a Tertiary Care Hospital in South India, International Scholarly Research Notices, Article ID 685072, 5 pages, October 2014, doi:10.1155/2014/685072
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### **National - Non-indexed**

#### **BOOKS, CHAPTERS IN BOOKS**

**Year 2012**

#### **Books published**

Asha Kamath, SreelathaMeleth, NaliniSathiakumar R Manual for Health Science Researchers, 1st ed, Manipal, Manipal University Press, 2 012

#### **Chapters in a book**

Lena A, Kamath A, Kamath V, "Reproductive Health Needs of Rural adolescents girls – A qualitative study" published in the book titled “Professional Social Work – Best practices in Research”, AuthorspressPublishers : 2012

The details of books published by our faculty are given below:

Year 2012

Sl. No.	Title	Name of the faculty	Publisher
1.	R Manual for Health Science Researchers, 1st ed, Manipal	Dr. AshaKamath	Manipal University Press, 2012

The details of chapters in book published by our faculty are given below:

Year 2012

Sl. No.	Title	Name of the faculty	Book title	Publisher
1.	"Reproductive Health needs of rural adolescent girls – A qualitative study in the book titled “Professional social Work- best Practices in research”	Dr. Veena G Kamath	Professional Social Work – Best practices in Research	Authorspress Publishers

The details of our conference presentations have been listed below

Year 2012

State:

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1	A Comparative study of the clinical profile of patients with Coronary Artery Disease (CAD) among the young and the old age groups.	Dr. KirthinathBallal	24th Annual Conference of Karnataka Association of Community Health (KACH) held at SNMC Bagalkot on 3rd and 4th of November 2012.

National:

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1.	Mobile Monitoring Solutions for the control of non - communicable diseases: A Systematic Review	Dr. Suma Nair	56 <sup>th</sup> Annual National Conference of

			Indian Public Health Association, Kochi, Kerala, February 10 <sup>th</sup> to 12 <sup>th</sup> 2012
2.	“A community based survey to determine the prevalence of goitre in three coastal districts of Karnataka, South India”	Dr. George P Jacob	56 <sup>th</sup> National Conference of Indian Public Health Association, Kochi, Kerala, 9 <sup>th</sup> to 12 <sup>th</sup> of February, 2012

**International:**

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1.	“Tobacco use among adults in a rural area of coastal Karnataka”	Dr. MuralidharKulkarni	18 <sup>th</sup> International Conference on Rural Health and Medicine” organised at Goa from 10 <sup>th</sup> to 12 <sup>th</sup> of December 2012.
2	“A panel survey on high blood pressure prevalence among adults in coastal Karnataka of Southern India”	Dr. Chythra R Rao	22 <sup>nd</sup> European Meeting on Hypertension and Cardiovascular Protection held in London, United Kingdom from April 26 <sup>th</sup> - 29 <sup>th</sup> 2012.
3	“Assessment of cardiovascular disease risk among a coastal population of Southern India using non-laboratory based measures”	Dr. Chythra R Rao	22 <sup>nd</sup> European Meeting on Hypertension and Cardiovascular Protection held in London, United Kingdom from April 26 <sup>th</sup> - 29 <sup>th</sup> 2012

4	Knowledge regarding maternity benefit schemes among women in a coastal taluk of Karnataka: A cross sectional study	Dr. Sujatha K.	International Conference on Millennium Development Goals, Related to Reproductive Health: Status, Challenges and Future Directions. Mumbai, India on 18 – 21 <sup>st</sup> of March 2012.
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**Year 2013****State:**

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1	Utility of Indian Diabetic Risk Score in a rural area of Coastal Karnataka,	Dr. Muralidhar M.K.	Presented Poster at the 25th KACH CON in Bangalore, 29 <sup>th</sup> November to 1 <sup>st</sup> December 2013

**National:**

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1	Health Insurance for the Informal Sector in India –A Situation Analysis”	Dr. Ranjitha Shetty	Seventh International Conference on Healthcare Systems and Global Business Issues, Jaipur National University, Jaipur, Rajasthan, January 3-6, 2013
2	Assessment of medical problems and activities of daily living among rural geriatric population in coastal Karnataka"	Dr. Ranjitha Shetty	World Conference on Infectious Diseases, organized by Sri Jayaa Charitable

			Education Trust, Chidambaram, TN held at Trade Convention Center at Chennai, TamilNadu from December 18th to 22nd 2013
	Effect of maternal anaemia on fetal outcomes and maternal health in Udupi District'	Dr Veena G Kamath	XI SEA Regional Scientific Meet of the International Epidemiological Association, MCOMS, Pokhara, Nepal, 27th-29th September 2013
3	Assessment of cultural beliefs and practices during the post natal period in a coastal town of South India - A mixed method research study''	Dr. Chythra Rao	XI SEA Regional Scientific Meet of the International Epidemiological Association, MCOMS, Pokhara, Nepal, 27th-29th September 2013.

**Year 2014****State:**

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1			3rd World Congress on Geriatrics and Gerontology-2014 held from 17th-19th 2014 at JN Tata Auditorium, Indian Institute of Science, Bengaluru, India.
2			26th Annual State Conference of Karnataka

			Association of Community Health (KACHCON-2014) held on 10th-11th October 2014 at Jawaharlal Nehru Medical College, Belgaum.
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### National

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1	Presented a oral paper on “study on assessment of risk factors for Deep Vein Thrombosis among admitted patients of tertiary care Hospital,. Presented oral paper on Global Trends in maternal mortality at Joint state conference	Dr. Ashwini Kumar  Dr. Ashwini Kumar	IAPSM 2014 ,held at AGMC Agarthala during 6th to 8 thFebruray 2014,  IAPHA – IAPSM Maharashtra chapter 2014. held during 24 th to 26 th February 2014. at university of Pune

### International

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1	Knowledge Regarding Human Papillomavirus Infection, Cervical Cancer And Its Prevention:A Cross-sectional Analysis Among Rural Women In Southern India,	Dr. Ranjitha Shetty	IUSTI –Asia Pacific Conference,Bangkok, Thailand,11 <sup>th</sup> to 14 <sup>th</sup> November 2014
2	Health Care Workers & Standard Precautions, 18 <sup>th</sup> IUSTI Asia –	Dr. Suma Nair	Pacific Conference, Bangkok, Thailand11-14 , November 2014



## 12. Placement record of the past students and the contribution of the department to aid student Placements.

Nil

## 13. Plan of action of the department for the next five years.

The departments' plan of action for the next 5 years:

Currently there is a robust teaching, training, research and clinical component in the department. Besides these we would like to put forwarding the following initiatives that is planned over the next five years.

### 1. Teaching for undergraduates

Plan to make teaching more interactive as illustrated below:

a. Workshop mode for epidemiology during the 7<sup>th</sup> semester clinical postings: students during the clinical postings will be divided into groups and would be given hands on tasks such as developing a protocol, identifying the appropriate study design for a scenario & critiquing a journal article

### 2. Evaluation for undergraduates:

Upgrade the current practical evaluation of the 'spotters' component to OSCE & OSPE

### 3. Training of Post Graduates

To train post graduates of community medicine for providing primary obstetric, neonatal & paediatric care at the community level

### 4. Clinical component

Plan to re organize services provided at the RMCW homes as Rural Community Care Centre (RCCC), Community Cancer Clinic (CCC), Non Communicable Disease Clinic (NCDC), Nutritional Rehabilitation Centre, Training centre for grass root level workers

**1. Name of the Department: ENT –KMC- Manipal.**

**2. Faculty profile - adequacy and competency of faculty**

There are 8 teaching faculty which meets the requirements for MBBS and postgraduate training DLO/MS as per the regulatory body(MCI) requirement. All faculty are competent.

**Faculty List**

Sl.No	Name	Qualification	Designation	Total Teaching Experience
1	Dr.Balakrishnan R	MBBS,MS, DNB	Professor &Head	22
2	Dr.DipakRanjan Nayak	MBBS, MS	Professor	25
3	Dr.Rohit Singh	MBBS,MS, DNB	Assoc. Prof.	9
4	Dr. Ajay Bhandarkar	MBBS, MS	Asst. Prof.	4
5	Dr.Gurshinder Pal Singh	MBBS, MS	Asst. Prof.	3
6	Dr.Shalini S	MBBS,MS	Asst. Prof.	3
7	Dr. Ashish Chandra Agarwal	MBBS,MS	Asst. Prof.	3
8	Dr. Poorvi S Sharma	MBBS,MS	Senior Resident	<01

Category	Sanctioned	Filled
Teaching staff	06	07
Senior Resident	02	01
Junior Resident	06	06

- There are additional 12 junior residents working in the department

**3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.**

Please refer Annexure No. HS 1 for details

**4. Changes made in the courses or programmes during the past 3 years and the contribution of the faculty to those changes.**

For MBBS program their number of hours of teaching (Lectures, tutorials and clinical posting) are as per MCI regulations.

In the last few years, as per consensus in the board of studies meetings, few additional topics have been added to the teaching program like diseases of the thyroid gland, neck dissection, recent advances in otolaryngology, basics of skull base surgery etc. For clinical teaching the students are been divided into smaller batches of 12-13 to

make teaching, more effective. Log book and clinical case record book has been introduced to allow student note down the details of the patients, operation / procedures seen during the clinical posting. OSCE has been introduced in their assessment at the end of clinical posting and during the session examination.

For MS/DLO students a separate teaching program is made monthly and published the previous month as given in the sample teaching program (Annexure 3). Only a PG teacher (> 8 yrs after post graduation) takes class and other staff members present also contribute. For BSc speech & hearing students we follow the RCI guide lines for teaching and evaluation. Recently the curriculum was revised so that uniformity would be maintained between the two medical institutions of Manipal University. For BSc MIT, BOT & BPT also RCI guidelines are being followed.

#### 5. Trends in the success and dropout rates of students during the past two years.

Course	Pass Percentage						Dropout Rate		
	2012		2013		2014				
MBBS	July	Dec	June	Dec	June	Dec	--	--	--
	55.5	98.4	75%	97%	73%	98%	--	--	--
MS/DLO	Oct	Apr	Apr	Oct	Apr	Oct	--	--	--
	--	100	100	--	100	100	--	--	--

#### 6. Learning resources of the departments - library, computers, laboratories and other resources.

The department has an air conditioned library with about over 150 reference books and over 60 CD-ROMS in the subject and allied specialties for the use by the faculty and students.

All faculty and MBBS students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 3 desktop computers complete with multi- functional printers. All the computers are also connected by internet / intranet. The e-journal portal of Manipal University enables all faculty and students access various journals anywhere in the campus free of cost at all times.

The department has a small class room in OPD with seating capacity of 20 and we also have a clinical demonstration room in R7 ward with seating capacity of 15 students. A seminar room for UG & PG teaching (case discussion & tutorials) is present near the R1 ward with seating capacity of 40. We have 2 LCD projectors with screen in OPD class room and the seminar room (one each). An air-conditioned temporal bone laboratory for use by PG students is available adjacent Anatomy Department with 3 stations well equipped with operating microscopes, drill machines, irrigation suction system and temporal bone holders.

#### **7. Modern teaching methods practiced and use of ICT in teaching – learning.**

Theory classes are taken by power point presentation slides and emphasis is made to adequately illustrate with figures, flowcharts, algorithms and videos to make learning process more easy, interesting and inspiring with better retaining capacity. In the tutorial clases, in additions to audio video tools, actual instruments and equipments used, radiological materials and specimens/ models are used to teach ENT emergencies and procedures. Clinical teaching is done in ward side demonstration rooms/ OPD with fully equipped examination stations containing bull’s eye lamp and mirrors, head lights, examination instruments, otoscopes etc. In the OPD & OTs, the procedures / surgeries are demonstrated live using endoscopes / microscopes equipped with camera, camera control units and high definition TV monitors. The department also has a museum in ward side demonstration room with over 40 exhibits and charts. The class rooms are equipped 2 LCD projectors with screens (one each)

#### **8. Participation of teachers in academic and personal counseling of students.**

All teacher are encouraged to make UG / PG teaching more interactive, lucid and interesting. The students are made to ‘Clerk’ the patients individually to gain acquaintance in history taking and clinical examination. Students are provided with log books and clinical record books wherein they maintain the records of patients seen in the OPD, procedure rooms, wards and in operation theatres. Teachers evaluate the log books on daily basis and add remarks on their performance to ensure continuous evaluation. Weaker students are identified and are counseled with extra teaching hours and assignments. At the end of each clinical posting the students are evaluated by OSCE and clinical viva-voce. At the end of the semester, sessional examinations are conducted in theory, OSCE and viva –voce. The internal assessment for clinical are calculated based on the end of posting examination results, sessional exam results and the clinical record (Log) book.

#### **9. Details of faculty development programmes and teachers who have been benefited during the past three years.**

All faculty have attended faculty development program pertaining to teaching – learning and evaluation methodologies, research development programs / workshops conducted by the Medical Education department of our university. In addition, the faculty are encouraged to attend surgical workshops / CMEs and zonal / state / national / international conferences and present research papers and case reports. In the past 3 years the faculty have attended more than 80 such programs.

The faculty are also encouraged to attend the BLS & ACLS workshops conducted by the Anesthesia Department in their simulation lab housed in Manipal University building.

All faculty and postgraduate students are encouraged to publish papers in peer reviewed indexed journals. As an incentive, each journal publication is awarded certain points and on accumulation of certain points over the year, enables the faculty to attend international workshop / conferences fully paid by the institution except accommodation. Young faculty are also encouraged to pursue various national/ international fellowship programs to better their knowledge and clinical / surgical / teaching skills.

#### **10. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

As mentioned in previous section, all faculty are involved in UG & PG training program. Faculty are encouraged to think 'out of the box' and bring out innovative diagnostic, therapeutic and teaching methods. Faculty are encouraged to involve themselves in research, clinical trials and innovations. Faculty are also actively involved in guiding the postgraduate students in their dissertations.

#### **11. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.**

Inter departmental research work involving clinical pharmacology , radiology, audiology and speech language pathology, etc.. is being done encouraged and undertaken. We encourage faculty to engage themselves in multicentric clinical trials also.

#### **12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.**

The following are details of ongoing research projects and publications.

Category	Number
Funded research projects	1
Non-funded research projects	0
PhD research projects	0
PG research projects	0
UG research projects	1

#### **Last 3 years (2012-2015)**

	2013	2014	2015
Completed funded research projects	0	0	0
Completed non-funded research projects	0	0	0
Completed PhD research projects	0	0	0

Completed PG research projects		4	5	2
Completed UG research projects		0	1	1
Publication	International	7	12	5
	National	8	3	1
Books		1	1	-
Chapters in books		0	0	0
Conference presentation	International (2012) 6	3	3	0
	National (2012) 26	13	8	0

**Our ongoing PG research projects are :**

Sl.No.	Title	Name of the student	Guide
1	Effect of nasal packing on hearing and middle ear pressure oxygen saturation after Septoplasty& FESS	Dr. Aishwarya Anand	Dr. Dipak Ranjan Nayak
2	Comparison Microbiological flora in the external auditory canal of normal ear and an ear with acute otitis externa, their sensitivity to antibiotics and the response to treatment in patients attending OPD at Kasturba Hospital, Manipal.	Dr. Asheesh Dora	Dr. Dipak Ranjan Nayak
3	A comparative study between coblatorturbinoplasty and microdebriderturbinoplasty in patients which bilateral inferior turbinate hypertrophy.	Dr. Nair Suraj Surendran	Dr. Balakrishnan R
4	Clinical and stroboscopic evaluation of vocal cord function before & after thyroid surgery.	Dr. Kondamudi Dheeraj	Dr. Suresh Pillai
5	Comparison of postoperative morbidity with Nasopore and Vaseline pack in septoturbinoplasty	Dr. Nithyanand C	Dr. Rohit Singh
6	Efficacy of Laser assisted (LAUPP) uvulopalatopharyngoplasty in the management of mild to moderate OSA (Retropalatal level)	Dr. Keshwar Damray	Dr. Balakrishnan
7	Comparing the efficacy of Draf I, Draf II, Draf III procedures in treatment of chronic frontal sinusitis.	Dr. Apoorva Reddy	Dr. Dipak Ranjan Nayak

8	Microbiological profile of adenoids and role of adenoid biofilm in Peadiatric chronic rhinosinusitis.	Dr. Lakshmi SaiShilpaRudr araju	Dr. Rohit Singh
9	Weekly versus three weekly cisplatin based chemotherapy induced hearing loss in patients of Head & Neck Cancers.	Dr. S. Nishanth	Dr. Balakrishnan R

**Our completed PG research projects are :**

**Year 2012**

Sl.No	Title	Name of the Student	Guide
1	Clinico-pathological analysis and Role of Endoscopic sinus surgery in allergic fungal rhinosinusitis.	Dr. Nadia Fasal	Dr. Dipak Ranjan Nayak
2	Comparative study of ultrasound, per-operative and histopathological findings of cervical metastases in malignancy of hypopharynx and larynx	Dr. Harshita V Sabhahit	Dr. Balakrishnan R
3	Comparative study of ISO-Amyl 2 - Cyanoacrylate and traditional skin suture technique in thyroid surgery.	Dr. Harish M O	Dr. Suresh Pillai
4	Role of HRCT temporal bone in the evaluation & treatment of atticoantral disease with cholesteatoma	Dr. Sandeep Sreedhar	Dr. Kailesh Pujary

**Year 2013**

Sl.No	Title	Name of the Student	Guide
1	Clinico-pathological analysis and Role of Endoscopic sinus surgery in allergic fungal rhinosinusitis	Dr. Nadia Fasal	Dr. Dipak Ranjan Nayak
2	Comparative study of ultrasound, per-operative and histopathological findings of cervical metastases in malignancy of hypopharynx and larynx	Dr. Harshita V Sabhahit	Dr. Balakrishnan R
3	Comparative study of ISO-Amyl 2 - Cyanoacrylate and traditional skin suture technique in thyroid surgery.	Dr. Harish M O	Dr. Suresh Pillai
4	Role of HRCT temporal bone in the evaluation & treatment of atticoantral disease with cholesteatoma	Dr. Sandeep Sreedhar	Dr. Kailesh Pujary



**Year 2014**

Sl.No	Title	Name of the Student	Guide
1	Comparison of quality of life in advanced laryngeal cancer patients after total laryngectomy and postoperative radiotherapy vs concurrent chemoradiotherapy.	Dr. Manusrut	Dr. Dipak Ranjan Nayak
2	Influence of uncinate process on mucociliary clearance – A comparative study	Dr. Shruti Venkitachalam	Dr. Balakrishnan
3	Evaluation of anatomical variations and dangerous areas of fronto-ethmoidal region – A CT guided study for safer endoscopic surgery	Dr. Sandeep Dachuri	Dr. Suresh Pillai
4	Efficacy of Endonasal endoscopic surgical management for disease involving orbit	Dr. Susan A Thomas	Dr. Dipak Ranjan Nayak
5	Comparative study of symptoms, nasal eosinophilia and pulmonary function tests before and after short treatment with corticosteroid nasal spray in patients with allergic rhinitis.	Dr. Keshav M Pai	Dr. Suresh Pillai

**Our completed UG research projects are :****Year 2013-14**

Sl.No	Title	Name of the Student	Guide
1	Chronic suppurative otitis media – clinical and microbiological aspect	Sriradha	Dr. Suresh Pillai
2	Determination of aerobiological flora associated with allergic rhinitis by skin prick test in tertiary care hospital in west coast.	AvivarAvasti	Dr. Rohit Singh

**Our ongoing UG research projects are : Nil****The details of our publications are described below****2012****International**

1. Authors: Hariprakash, KrishnandaPrabhu, KaileshPoojary, BhavyaPrabhu, Rimshida Malik, Anjali Rao,  
Title : Pilot study of salivary butyrylcholinesterase, phosphodiesterase, thiols and ceruloplasmin in auditory neuropathy,  
Journal – Asia Pacific Journal of Tropical diseases  
Volume – 2012  
Year - October 2012

#### **National –**

1. Authors : D R Nayak, Balakrishnan R, S.Pillai  
Title : Modified Stenert's protocol in treating peripheral facial palsy – our experience  
Journal – Indian Journal of Otolaryngology  
Volume –  
Year - January 2012
2. Authors : Deviprasad, K. Pujary K, Balakrishnan , D R Nayak  
Title : KTP Laser in laryngeal Amyloidosis : Five cases with review of Literature  
Journal – Indian Journal of Otolaryngology – Head & Neck Surgery  
Volume – 65  
Year - January 2012
3. Author : Rohit Singh  
Title : Deep and Unusual Sialolithiasis of Submandibular Duct and Gland: A Surgical Dilemma  
Journal – Indian Journal of Otolaryngology – Head & Neck Surgery  
Volume – online  
Year - February 2012
4. Authors : Dr. Navneeta Gangwar, Dr. Balakrishnan, Dr. D.R Nayak  
Title : Mycobacterium fortuitum otitis media : Diagnostic and therapeutic dilemma,  
Journal – Indian Journal of Otology  
Volume – 18  
Year - April January 2012
5. Authors : D R Nayak, Balakrishnan  
Title : Endoscopic approach to middle turbinate squeeze syndrome  
Journal – Indian Journal of Otolaryngology – Head & Neck Surgery  
Volume – 64  
Year - April – June 2012 ,
6. Authors : Rohit Singh, Dipak Ranjan Nayak, P. Hazarika, Sajilal Manonmani, Deviprasad, Prabhjot Randev  
Title : A comparison between conventional stapedectomy and KTP 532 LASER stapedectomy ,  
Journal – Indian Journal of Otology

Volume – 18

Year - November 2012

7. Authors : Dr. Rohit Singh, Dr. Balakrishnan  
 Title :A study of antibacterial and antifungal properties of human cerumen,  
 Journal – Indian Journal of Otology  
 Volume – 18  
 Year - November 2012

## 2013

### International

1. Authors name : Suresh Pillai, Ashish Chandra Agarwal, DipakRanjanNayak  
 Title :Ancient schwannoma mimicking a thyroid mass with retrosternal extension.  
 Journal :BMJ Case report  
 Volume :
2. Authors name : Suresh Pillai, Ajay Bhandarkar  
 Title :Migrating Ingested Foreign Body of the upper aerodigestive tract with resultant septic shock – A case and literature review  
 Journal :Sultan Qaboos University Med. J  
 Volume :13, Issue 4
3. Authors name : Dr. Gurshinderpal Singh Shergill  
 Title : Mucosal malignant melanoma of nasal cavity – a rare case  
 Journal : International Journal of Scientific Research  
 Volume : 2, Issue -10
4. Authors name : Dr. Ajay Bhandarkar  
 Title: Clinical indications of obstructive sleep apnea syndrome  
 Journal : International Journal of Scientific Research  
 Volume : 2, Issue -12
5. Authors name : Dr. Shalini S  
 Title: Lingual paraneurofibroma – A tongue based approach for research  
 Journal : International Journal of Scientific Research  
 Volume : 2, Issue -12

### National

1. Authors name : Ashish C Agarwal, KaileshPujary, Balakrishnan R, Dipak R Nayak  
 Title : Pure tone audiometry and otoacoustic emissions for the assessment of hearing loss in diabetic patients.  
 Journal : Indian Journal of Otology  
 Volume : 19, Issue – 1

2. Authors name : ShaliniSandeepMemon, RamaswamyBalakrishnan, DipakRanjanNayak, KaileshPujary  
Title : Efficacy of mometasone nasal spray in the treatment of otitis media with effusion in the peditric age group : A preliminary study  
Journal : Indian Journal of Otology  
Volume : 19, Issue – 3
3. Authors name : Rohit Singh, P Hazarika,DipakRanjanNayak  
Title : A comparision of microdebrider assisted endoscopic sinus surgery and conventional endoscopic sinus surgery for nasal polypi  
Journal : Indian Journal of Otology of Head & Neck Surgery
4. Authors name : Dr. Gurshinderpal Singh Shergill  
Title :Cellur Pleomorphic Adenoma with Mucoepidermoid Metaplasia – An unusal presentation  
Journal : Indian Journal of Research  
Volume : 2, Issue -10
5. Authors name : Dr. Gurshinderpal Singh Shergill  
Title : Expression of mismatch repair protein MIh 1 in primary oral squamous cell carcinoma in A Indian Population – An Immunohistochemical study  
Journal :Indian Journal of Applied Research  
Volume :3, Issue -10
6. Authors name : D.R Nayak, S.G Mahesh, Balakrishnan R, P. Pavithran , S Pillai, Abhishek Sharma  
Title : Modified sternert’s protocol in treating acute peripheral facial nerve paralysis – Our experience.  
Journal : Indian Journal of Otology of Head & Neck Surgery
7. Authors name : D. Deviprasad, K. Pujary, D.R Nayak, Balakrishnan R,  
Title : KTP Laser in Laryngeal Amyloidosis : Five cases with review of literature  
Journal : Indian Journal of Otology of Head & Neck Surgery

## 2014

### International

1. Authors name : DipakRanjanNayak, Ajay M Bhandarkar  
Title :Incidental ethmoidsinolith – an unusual cause of frontal recess obstruction.  
Journal : BMJ Case reports
2. Authors name : ShaliniMenon, KaileshPujary  
Title :Dual pathology of the submandibular gland ; plasmacytoma and pleomorphic adenoma  
Journal : BMJ Case reports
3. Authors name :Gangwar N, Mahesh SG, Pillai S, Nayak D R  
Title :Recent Trends in Head & Neck Tuberculosis and review of literature  
Journal :International journal of scientific research  
Volume :3 , Issue – 3

4. Authors name : Gurshinderpal Singh Shergill  
Title :Dentigerous cyst associated with an erupted tooth – an Unusal presentation  
Journal : International journal of scientific research  
Volume : 3 , Issue – 5
5. Authors name : Ajay M Bhandarkar, Suresh Pillai  
Title :Acute prevertebral abscess secondary to infected pancreatic pseudocyst  
Journal : BMJ Case reports  
Volume :
6. Authors name : Gurshinderpal Singh Shergill  
Title :Monophasic synovial sarcoma of pharynx – A diagnostic challenge  
Journal :International Journal of oral and maxillofacial pathology  
Volume :
7. Authors name : Ajay Bhandarkar  
Title :Angiolymphoid Hyperplasia with eosinophilia of root of nose : A rare phenomenon  
Journal : Journal of clinical and diagnostic research  
Volume : 8(3)
8. Authors name : Balakrishnan R, Ajay M Bhandarkar  
Title :Amelanotic malignant melanoma of the cervical oesophagus  
Journal : BMJ Case reports  
Volume :
9. Authors name : Ajay M Bhandarkar  
Title :Beware of pulsating oropharynx  
Journal : BMJ Case reports  
Volume :
10. Authors name : DipakRanjanNayak, Ajay M Bhandarkar  
Title :Intranasal lobular capillary haemangioma  
Journal : BMJ Case reports  
Volume :
11. Authors name : Gurshinderpal Singh Shergill  
Title :Unicysticameloblastoma associated with a compound odontome : An unusal presentation  
Journal : International Journal Cur Res Rev  
Volume : 6, Issue – 17
12. Authors name : DipakRanjanNayak, Ajay Bhandarkar  
Title :: Tracheo- Innominate Artery Fistual – A surgical and hemodynamic emergency  
Journal : International Journal of Scientific Research  
Volume :3, Issue – 5

### National

1. Authors name : Shalini S Menon  
 Title :Linear verrucous nevus of the external auditory canal – case report  
 Journal :Indian Journal of applied research  
 Volume :4 , Issue – 3
2. Authors name : DipakRanjanNayak, Ajay Bandarkar, Suresh Pillai  
 Title :Paranasal sinus malignancies – A 6 year tertiary Hospital Experience  
 Journal : Indian Journal of applied research  
 Volume : 4 , Issue – 2
3. Authors name : DipakRanjanNayak, Balakrishnan R  
 Title :Dual Pathology – Retropharyngeal liposarcoma and peripancreatic diffuse large B cell lymphoma  
 Journal :Odisha Journal of Otorhinolaryngology and HNS  
 Volume :8 , Issue - 2

**The details of books published by our faculty are given below:**

**Year : 2010 to 2015**

Sl.No	Title	Name of the faculty	Publisher
1	BOOKS, CHAPTERS IN BOOKS - Clinical and Operative Methods in ENT and Head & Neck Surgery – A systematic approach 2 <sup>nd</sup> edition,	Dr. P.Hazarika, Dr. D.R Nayak, Dr. Rohit Singh	CBS Publishers, 2010.
2	Text book of Ear, Nose, Throat and Head & Neck Surgery – Clinical & Practical by Edition - Revised second addition , , year – 2011-12	Dr. P.Hazarika, Dr. D.R Nayak, Dr. R. Balakrishnan	CBS Publishers
3	Text book of Ear, Nose, Throat and Head & Neck Surgery – Clinical & Practical -Revised second additionyear – 2011-12	Dr. P.Hazarika, Dr. D.R Nayak, Dr. R. Balakrishnan	CBS Publishers,
4	Chapter on Otitis media in book Recent advances in management of ENT disease , Page No: 16 year – 2011-12	Dr. D R Nayak Dr. Balakrishnan R	CBS Publishers,
5	Text book of Ear, Nose, Throat and Head & Neck Surgery – Clinical & Practical -Revised third addition year – 2012-13	Dr. P.Hazarika, Dr. D.R Nayak, Dr. R. Balakrishnan	CBS Publishers,

6	Manipal Manual of Endoscopic sinus surgery revised 2 <sup>nd</sup> edition 2013-14	Authors Dr. D.R. Nayak,	CBS publishers
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The details of our conference presentation have been listed below :

**Year 2012**

**International**

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	“Efficacy of trans-nasal endoscopic surgery for CSF rhinorrhoea”	Dr. Balakrishnan R	6 <sup>th</sup> International Congress of the World Federation of Skull Base Societies and the 10 <sup>th</sup> European Skull Base Society Congress 2012 at Brighton Hilton Metropole, Brighton Seafront, United Kingdom from 16 <sup>th</sup> to 19 <sup>th</sup> May 2012.
2	“Exclusive endoscopic / endoscopic assisted minimally invasive surgery for sino-nasal neoplasm – Our experience”	Dr. DipakRanjanNayak	6 <sup>th</sup> International Congress of the World Federation of Skull Base Societies and the 10 <sup>th</sup> European Skull Base Society Congress 2012 at Brighton Hilton Metropole, Brighton Seafront, United



			Kingdom from 16 <sup>th</sup> to 19 <sup>th</sup> May 2012.
3	Presented “ FNAC of Thyroid – A Histopathological co-relation”	Dr. Suresh Pillai	Middle East Otolaryngology Conference on 22 <sup>nd</sup> to 24 <sup>th</sup> April, 2012 at Dubai.
4 5	1. “Audiological profile of diabetic patients” 2. “Management of cricopharyngeal disease” (instructional course)	Dr. KaileshPujary	Middle East Otolaryngology Conference on 22 <sup>nd</sup> to 24 <sup>th</sup> April, 2012 at Dubai
6	“ A study of antimicrobial properties of wet ear wax in Indian population ”	Dr. Rohit Singh	13 <sup>th</sup> British Academic Conference in Otolaryngology( BACO) from 4 <sup>th</sup> to 6 <sup>th</sup> July 2012 at the Scottish Exhibition and Conference Centre, Glasgow, United Kingdom.

### National

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Angio fibroma – Surgical endoscopic approach	Dr. Balakrishnan R	30 <sup>th</sup> AOI Karnataka State ENT Conference (AOICON -2012 at Vydehi Institute of Medical Science and Research Center,

			Bangalore from 14 <sup>th</sup> to 16 <sup>th</sup> September 2012.
2	voice restoration after laryngectomy ‘Larycare-2’ gave talk on “ Post-operative changes in laryngectomy”,	Dr. Balakrishnan R	Department of Speech & Hearing, MCOAHS, Manipal on 9 <sup>th</sup> October 2012
3	“Laryngeal carcinoma” & Talk on total laryngectomy& TEP South Zone Conference at Vijayawada from 12 <sup>th</sup> to 14 <sup>th</sup> October 2012		
4	Thyroid Cancer”	Dr. DipakRanjanNayak	AOICON 2012 at Allahabad From 4 <sup>th</sup> to 7 <sup>th</sup> January 2012
5	“Middle turbinate squeeze syndrome and rhinogenic headache” at Ear & Sinus Surgery Workshop – 2012	Dr. DipakRanjanNayak	Dr. VasanttraoPawar Medical College &Indorewala ENT Hospital & DNB Institute, Nashik from 23 <sup>rd</sup> to 26 <sup>th</sup> February 2012.
6	Functional endoscopic sinus surgery – changing trends	Dr. DipakRanjanNayak	44 <sup>th</sup> MENTCON 2012 Annual Conference of Federation of Maharashtra State Brnahces of AOI from 2 <sup>nd</sup> to 4 <sup>th</sup> November 2012
7	1.“Microendoscopic staged resection of epiglotticchondrosarcoma”	Dr. KaileshPujary	AOICON 2012 at Allahabad from 4 <sup>th</sup> to 7 <sup>th</sup> January 2012.
8	2.“Thyroid Cancer”		
9	3.“KTP 532 laser in the management of benign cricopharyngeal diseases”		
10	“ENT Tuberculosis”	Dr. Navneeta G	Tuberculosis Conference organized by

			Dept. of Microbiology, Kasturba Medical College, Manipal On Feb 10 <sup>th</sup> & 11 <sup>th</sup> , 2012.
11	Presented poster on “Cancer stem cells : A step to cure ; A hope for sure”	Dr. Gurshinderpal	3 <sup>rd</sup> International conference on stem cells and cancer (ICSSC 2012) at New Delhi from 27 <sup>th</sup> to 30 <sup>th</sup> October 2012.
12	Audiological profile of diabetic patients”	Dr. Ashish Chandra Agarwal	AOICON 2012 at Allahabad From 4 <sup>th</sup> to 7 <sup>th</sup> January 2012.
13	-Audiological profile of diabetic patients (Case series) - Stennerts Regimen for sensorineural hearing loss (poster) - Results of tympanoplasty in CWD mastoidectomy (Case series) - Study on results of canal wall up mastoidectomy + tympanoplasty(Case series)	Dr. Ashish Agarwal Dr. Sandeep D Dr. Harshita V Sabhahit Dr. Keshav	AOI - Allahabad on January from 4-7, 2012
14	– Auditory neuropathy (poster)	Dr. Nadia	State Conference Karnataka, Bangalore September, 2012
15	– Pleomorphic adenoma of base of tongue laser assisted excision (paper)	Dr. Harshita	
16	- Laser assisted release of oral submucous fibrosis (paper) &Clinicomicrobiological profile in CSOM patients (poster)	Dr. Harish M O	
17	– Le Forte Type I approach for JNA (Case series)	Dr. Sandeep S	
18	– Dermoid tumor of neck (paper) &Audiological profile in diabetic (poster)	Dr. Keshav M Pai	State Conference Karnataka, Bangalore September, 2012

19	- Monophasic synovial sarcoma of pharynx (case report)	Dr. Shivangi	
20	- Juvenile aggressive vacant of cemento ossifying fibroma of ethmoidal sinus and orbital extension. (Case report)	Dr. Balavigneswari	AOI South Zone Conference Vijayawada on October from 12 - 14, 2012 at Vijayawada.
21	- Incidence of PCF in total laryngectomy patients (case series)	Dr. Shruti V	
22	- Modified stennert's regimen in facial palsy (case series)	Dr. Manusrut	
23	-Juvenile nasopharyngeal angio fibroma surgical approach.(Case series)	Dr. Susan A Thomas	
24	- Paraphrayngealneurofibroma with ganglioneuroma (Case report)	Dr. Sandeep D	
25	— Monophasic synovial sarcoma of pharynx (Case report)	Dr. Amrutha G	AOI South Zone Conference Vijayawada on October from 12 - 14, 2012 at Vijayawada
26	Preauricular ancient schwannoma (Case report)	Dr. Sandeep VVK	

### Year 2013

#### International

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Endoscopic endonasal management of angiofibroma	Dr. Balakrishnan R	26 <sup>th</sup> Annual Conference of North Eastern branch of AOI at Sikkim Manipal Institute of Medical Sciences,

			Gangtok from 18 <sup>th</sup> to 20 <sup>th</sup> October 2013.
2	Role of Lasers in ENT	Dr. Suresh Pillai	Sultan Kaboos University in Muscat, Oman on 18 <sup>th</sup> Nov-2013.
3	Juvenile aggressive cement-ossifying fibroma of sphenoid sinus presenting with proptosis		at the 2 <sup>nd</sup> EAORL HNS 2013 Congress, 27-30 April 2013 at Nice, France.

### National

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Laryngo-tracheal steonsis	Dr. Dipak Ranjan Nayak	9 <sup>th</sup> Annual Conference of phonosurgeons of India from 8 <sup>th</sup> to 10 <sup>th</sup> March 2013, Vijayawada, Andrapradesh
2	Thyroid cancer	Dr. Dipak Ranjan Nayak	65 <sup>th</sup> AOICON 2013 Pune from 3 <sup>rd</sup> to 6 <sup>th</sup> January 2013 .
3	Carcinoma Maxilla	Dr. Balakrishnan R	65 <sup>th</sup> AOICON 2013 Pune from 3 <sup>rd</sup> to 6 <sup>th</sup> January 2013 .
4	Hearing loss	Dr. Balakrishnan R	IMA Udupi Branch on 10 <sup>th</sup> February 2013
5	Sleep Apnea	Dr. Balakrishnan R	in the IASSA – Indian associations of surgeons for

			sleep apnea study (National Conference) at Chennai from 15 <sup>th</sup> to 17 <sup>th</sup> February 2013.
6	TEP	Dr. Balakrishnan R	at 9 <sup>th</sup> Annual Conference of phonosurgeons of India from 8 <sup>th</sup> to 10 <sup>th</sup> March 2013, Vijayawada, Andrapradesh.
7	Rhinoplasty	Dr. Suresh Pillai	31 <sup>st</sup> AOI Karnataka State Conference held at Manipal, Karnataka from Aug. 22 – 25, 2013.
8	Obstructive sleep apnea	Dr. Ajay Bhandarkar	65 <sup>th</sup> AOICON 2013 to be held at Pune.
9	Extra medullary plasmacytoma of head and neck-case series	Dr. Shalini	65 <sup>th</sup> AOICON 2013 to be held at Pune.
10	Pleomorphic adenoma of base of tongue	Dr. Ashish Agarwal	65 <sup>th</sup> AOICON 2013 to be held at Pune.
11	Clinicopathological and radiological profile of fungal sinusitis	Dr. Balavignewari	65 <sup>th</sup> AOICON 2013 to be held at Pune.
12	Sinonasalschwannomas	Dr. Shruti	
13	Clinicomicrobiological profile of CSOM patients	Dr. Shruti	

Year 2014

## International

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Trans – Oral micro-endoscopic KTP 532 Laser assisted surgery for supraglottic cancer “	Dr. Dipak Ranjan Nayak	IFHNOS 2014, 5 <sup>th</sup> World Congress & AHNS Annual Meeting to be held from 26 <sup>th</sup> to 30 <sup>th</sup> July 2014 at The Marriott Marquis Hotel in Times Square in New York, NY, USA.
2	Head & Neck applications of laser, The Manipal experience”	Dr. Suresh Pillai	JDWNR Hospital. Thimphu, Bhutan on 4 <sup>th</sup> March 2014
3	Nasal granulomas in the developing world – Rhinosporidiosis and Rhinoscleroma	Dr. Rohit Singh	European Rhinology Congress Amsterdam, Netherlands from 22 June to 25 <sup>th</sup> June 2014

## National

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Parapharyngeal tumors -Manipal Experience	Dr. Balakrishnan R	66 <sup>th</sup> National conference of the Association of Otolaryngologist of India (AOICON) 9 <sup>th</sup> to 12 <sup>th</sup> January 2014, Mysore



2	management of tinnitus	Dr. Balakrishnan R	10 <sup>th</sup> south zone and 32 <sup>nd</sup> Karnataka state annual ENT conference at Bangalore from 10 <sup>th</sup> to 12 <sup>th</sup> October 2014.
3	Phonosurgery– difficult larynx tinnitus	Dr. Balakrishnan R	10 <sup>th</sup> south zone and 32 <sup>nd</sup> Karnataka state annual ENT conference at Bangalore from 10 <sup>th</sup> to 12 <sup>th</sup> October 2014.
4	Surgical anatomy in laryngectomy	Dr. Balakrishnan R	ISHACON 47 <sup>th</sup> National Convention of the Indian Speech and Hearing Association 30 <sup>th</sup> and 31 <sup>st</sup> Dec 2014
5	Supra glottis and hypopharynx cancer	Dr. Dipak Ranjan Nayak	10 <sup>th</sup> South Zone & 32 <sup>nd</sup> Karnataka State Annual Conference 2014 at Rajarajeshwari Medical College & Hospital, Bangalore from 10 <sup>th</sup> to 12 <sup>th</sup> October 2014.
6	Amelanotic malignant melanoma of cervical oesophagus	Dr. Ajay Bhandarkar	10 <sup>th</sup> South Zone & 32 <sup>nd</sup> Karnataka State Annual Conference 2014

			at Rajarajeshwari Medical College & Hospital, Bangalore from 10 <sup>th</sup> to 12 <sup>th</sup> October 2014.
7	An comparative study of tragal cartilage and temporalis facia as a graft material in Type I Tympanoplasty.	Dr. Gurshinder Pal Singh Shergill	10 <sup>th</sup> South Zone & 32 <sup>nd</sup> Karnataka State Annual Conference 2014 at Rajarajeshwari Medical College & Hospital, Bangalore from 10 <sup>th</sup> to 12 <sup>th</sup> October 2014.
8	Malignant otitis externa – the challenging dilama.	Dr. Shalini S	10 <sup>th</sup> South Zone & 32 <sup>nd</sup> Karnataka State Annual Conference 2014 at Rajarajeshwari Medical College & Hospital, Bangalore from 10 <sup>th</sup> to 12 <sup>th</sup> October 2014

## 12. Placement record of the past students and the contribution of the department to aid student Placements.

Nil

## 13. Plan of action of the department for the next five years.

1. Department plans at building the teaching material for theory, demonstration and clinical teaching with emphasis of problem based interactive teaching.
2. Introduce OSCE in university examinations. Design better and more objective evaluation tools.
3. Conduct more number of workshops and CMEs

4. Enhance research activities and publication in material / international peer reviewed indexed journals.
5. Explore and enhance interdepartmental and multi-centric research projects.
6. Enhance participation of every faculty and student in CMEs, workshops and conferences with minimum of two conference presentations per year.
7. Encourage faculty and PG students to keep up-to-date knowledge in recent advances in the field and try and incorporate them in our armamentarium.
8. To improve the infrastructure of the department.
9. Encourage faculty / students to sharpen their clinical and surgical skills by attending more focused workshops.
10. To re-affirm the attitude of faculty / student in maintaining ethics and etiquette while managing their patients. To manage patients with compassion and counsel them regarding preventive and remedial measures. Add attention in knowing the socioeconomic status of the patients and counsel poor patients regarding the various government / non-government schemes for the poor.

## OPHTHALMOLOGY

### 1. Faculty profile – adequacy and competency of faculty

There are 9 teaching faculty for training the undergraduate(MBBS) and postgraduate (MS & D.O.) as per the regulatory body requirements.. This includes 2 Professor, 2 Addl.Professors, 2 Associate Professors, 2 Assistant Professors, 1Senior resident. All of them are competent as clinicians and academicians. Many of them have undergone various national and international trainings and fellowships in super-specialties of Ophthalmology like Glaucoma, paediatric ophthalmology, contact lens clinic, retina(including retinopathy of prematurity) ROP management, oculoplasty, uvea, [Eye Bank] and community ophthalmology.

#### Faculty list

Sl. No	Name	Qualification	Designation	Teaching experience in years
1	Dr.KrishnaRao A	MBBS, MS	Professor & Head	17
2	Dr.VijayaPai H	MBBS, MS	Professor	22
3	Dr.SulathaVBhandary	MBBS, MS	Addl. Prof.	12
4	DrChidanandKulkarni	MBBS, MS, DNB	Assoc. Prof.	11
5	Dr.YogishS.Kamath	MBBS, MS	Assoc. Prof.	9
6	Dr.Shailaja S	MBBS, MS	Asst. Prof.	6
7	Dr.ManaliHazarika	MBBS, MS	Asst. Prof.	5
8	Dr. Priyanka Shetty	MBBS, MS	Senior Resident	1
9	Dr.Atiya Pathan	MBBS	Junior Resident	-
10	Dr.Akshay Sehgal	MBBS	Junior Resident	-
11	Dr.Sindhura Devi	MBBS	Junior Resident	-
12	Dr.Rajashree	MBBS	Junior Resident	-
13	Dr.Sameer I	MBBS	Junior Resident	-
14	Dr.Sathya Hareesh Reddy	MBBS	Junior Resident	-
15	Dr.Rajani Devi	MBBS	Junior Resident	-

Category	Sanctioned	Filled
Teaching staff	07	08
Senior Resident	03	01
Junior Resident	04	20

- There are additional 12 junior residents working in the department

## 2. Student Profile: entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure No. HS 1 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 MCI and the department strictly complies with the laid down requirements. In the past two years, we have tried to streamline and homogenize our teaching programmes both for undergraduate and postgraduates.

### Undergraduate:

Clinical teaching in the outpatient department: Each unit has 25 students. The students are sub-grouped (4-5 per group) and allotted to each faculty rooms(5 rooms) in the outpatient department during the first half of the clinical session (9.30 am – 11.00am). This helps students to see more number of patients. They have short case presentations during this time. During the second half of the session (i.e. 11.00 to 12.30 pm) a long case discussion is held. This helps the students to interact with all the faculty and see more clinical cases and witness most of the outpatient procedures.

Clinical teaching in the operation theatre: 5-6 students witness the surgeries inside the OT, where they are taught the surgical steps and indications etc. by the concerned faculty / postgraduate. The rest of the students will watch the same live surgery on the television in the class room. Here again a faculty member will explain the steps of the surgery and also will have a case discussion. This has helped our students to learn the surgical steps and know the do's don'ts inside the operation theatre.

Sessional Exam paper correction: To achieve uniformity in correction, a single faculty corrects the same question of all the 250 students. This has avoided the bias in the evaluation.

We encourage undergraduates for research under the guidance of our teaching faculty. Some students have got ICMR short term studentships.

### Community Ophthalmology:

Undergraduates are made aware of the ocular problems in the community by holding house to house surveys and involving them in the rallies/eye camps during the days of ophthalmic importance (for i.e. eye donation fortnight, world sight day etc).

Internship: 2 weeks internship for undergraduates. They need to maintain a log book. They are posted to both the units. They perform simple OPD procedures.

**Postgraduate teaching:** We give equal importance to class room learning and hands on training during residency. They are allowed to perform various surgical procedures under guidance.

### Postgraduate theory teaching:

As per the MCI regulations, Post Graduate(PG) teaching schedule at Manipal has been modified as follows:

### Integrated teaching:

Classes relevant to Ophthalmology are being conducted by various pre para& clinical departments for the PGs incl. Anatomy, Physiology, Microbiology, Pathology, Forensic Medicine, Radiodiagnosis, Genetics etc.

Postgraduate classes in pre, para and clinical subjects in collaboration with concerned departments for integrated teaching are being conducted

Symposia have been included for presentation.

Ophthalmology theory classes: All the faculty members take theory classes on various topics in ophthalmology to the postgraduate students.

### Clinical work:

#### Out Patient Department:

Postgraduate students are allotted to various faculty rooms so that they see more patients along with the faculty so as to enhance their teaching and learning. They perform simple OPD procedures too. They are also trained in lasers, contact lens and refraction.

#### Operation theatre:

Hands on teaching of surgical skills are taught to the postgraduate students in the experimental OT. They perform surgeries under the guidance of faculty members.

#### ROP screening:

Postgraduates are also trained in ROP screening. They witness the retinal changes in ROP by viewing through the teaching mirror and also watch the laser treatment for ROP kids.

**Community Ophthalmology:**

They take part in the diabetic retinopathy screening in the RMCW homes and the camp sites using the non-mydratic fundus camera. They also take part in the house to house screening of ocular diseases in the community with the undergraduate students

**Clinical exams:**

**Final year postgraduates** to present clinical cases in the weekly classes as per exam pattern (1 long case, 2 short cases, 2 fundus cases and one retinoscopy) which would be graded by postgraduate teachers.

**Second year postgraduates:** One of presentations during weekly classes will be considered for internal assessment and evaluated accordingly.

**First year postgraduates:** Judged by the response to questions during PG presentations and evaluated accordingly.

**Log Book:** It has been formulated in department of Ophthalmology, Kasturba Hospital, Manipal, and made compulsory for all postgraduates. Details of the course, syllabus, recommended books, details of seminars and classes, examination pattern and evaluation of postgraduate classes are given in the log book. Postgraduate students are responsible for getting the evaluation filled in the log book on time.

**PG Thesis:**

The last date for PG Thesis Protocol submission was fixed as 6 months after joining.

**4. Trends in the success and dropout rates of students during the past three years**

Pass percentage						
	2012		2013		2014	
	July	Dec.	July	Dec.	July	Dec.
MBB.	61.53	100	58.33	95.47	84.21	91.66
	April	Oct.	April	Oct.	April	Oct.
DO	100	NA	100	NA	100	NA
MS	100	100	100	100	100	NA



Drop out rate					
2012	2013	2014			
July	Dec.	July	Dec.	July	Dec.
0	0	0	0	0	0
April	Oct.	April	Oct.	April	Oct.
0	0	0	0	0	0
0	0	0	0	0	0

## 5. Learning resources of the departments – library, computers, laboratories and other resources:

### Departmental library:

The department has well-equipped library with over 151 books, Computers with internet facility is available to the Postgraduate students in the workplace.

### Main Library:

1609 Ophthalmology books and 17 journals are available to students in the main library.

### Experimental OT:

Well equipped experimental OT where students can have hands on practice on suturing and various steps and cataract surgery is established in the ophthalmology department.

## 6. Modern teaching methods practiced and use of ICT in teaching – learning

The department extensively uses AV aids like Power Point and multi-media for teaching. Department has 1 mannequin available to teach fundus evaluation to students. We have high end slit lamps with observer tubes for teaching undergraduate and postgraduate students. Video indirect system is available to teach the postgraduate students. Anterior segment photography is available. Laser machines are connected to the TV monitor for the postgraduate students to observe the procedure. Laser machines also have observer tubes for the postgraduate teaching. Class room in the ward has TV monitor connected so that live surgeries can be shown to the students.

## 7. Participation of teachers in academic and personal counseling of students:

All the teachers are engaged in actively teaching both undergraduate and postgraduate students. Students in each batch are equally divided among available staff members for personal interaction and mentoring during their posting in OPD. Students are posted to

operation theatre in batches to witness the surgery. Staff members are always available to help any student in need.

One faculty from the department is nominated as the mentor for the undergraduate casual students. She/Heguidesandcounselsthementees helping them to perform better.

The postgraduate students undertake their prescribed dissertation work under the guidance of their allotted guide and also do voluntary research projects under different faculty. Postgraduates are encouraged to present papers/ posters during national and international conferences. They are also guided by faculty to publish quality papers in national and international indexed journals.

#### 8. Details of faculty members development programmes and teachers who have been benefited during the past two years

All faculty members have attended faculty development programmes pertaining to teaching-learning and evaluation in the past two years. However all the faculty members have undergone training regarding the same in the past.

All faculty members regularly attend various scientific programmes like national and international conferences, workshops, symposia and CMEs. In the past 2 years faculty members have attended at least 30 such programmes.

##### Academic awards received in the year, 2012:

S.No.	Recipient	Award	Awarding Society
1.	Dr.SulathaV.Bhandary	Distinguished Alumni Award	Manipal University

##### Academic awards received in the year 2014:

S.No.	Recipient	Award	Awarding Society
1.	Dr.YogishS.Kamath	Distinguished Alumni Award	Manipal University

#### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All faculty members are actively involved in teaching UG and PG students. Faculty members have participated in research including industry sponsored research. Interns log book and PG log book have been formulated by the faculty members of the department.

Dr. Krishna Rao, Additional professor was invited to Chair the scientific session “Surgical Retina” in the World Ophthalmic Congress Abu Dhabi on 17<sup>th</sup> February 2012.

Dr. Lavanya G. Rao, Professor & Head of the Department was invited Chair scientific session “Oculoplastics and Lacrimal Sac” in the World Ophthalmic Congress Abu Dhabi on 19<sup>th</sup> February 2012.

**2013:**

**Chairperson / Co-chairperson /Moderator:**

1. Dr.Lavanya G.Rao Chairman: Pediatric Ophthalmology: 32<sup>nd</sup> Karnataka State Ophthalmic Conference, Hassan, 8-10 Nov.2013
2. Dr.Lavanya G.Rao Chairman:: Neuro-ophthalmology & trauma: 32<sup>nd</sup> Karnataka State Ophthalmic Conference, Hassan, 8-10 Nov.2013
3. Dr.Vijaya Pai H: Chairman: Glaucoma: 32<sup>nd</sup> Karnataka State Ophthalmic Conference, Hassan, 8-10 Nov.2013
4. Dr.Vijaya Pai H., Chairman : - Glaucoma Basics: 32<sup>nd</sup> Karnataka State Ophthalmic Conference, Hassan, 8-10 Nov.2013
5. Dr.Krishna Rao Chairman: Retina : 32<sup>nd</sup> Karnataka State Ophthalmic Conference, Hassan, 8-10 Nov.2013.
6. Dr.Shailaja S.: Co-Chairman: Retina Potpourri : 32<sup>nd</sup> Karnataka State Ophthalmic Conference, Hassan, 8-10 Nov.2013.

**Guest Speakers / Lectures**

1. Dr.Shailaja Bhat Shenoy: Lecture on Role of FFA in diabetic Retinopathy: Postgraduate update programme “A glimpse into the diabetic eye”, 5<sup>th</sup> October 2013, AJ Hospital, Mangalore
2. Dr.Shailaja Bhat Shenoy : Lecture on Role of VR Surgeon in the Management of Diabetic Retinopathy : Postgraduate update programme “A glimpse into the diabetic eye”, 5<sup>th</sup> October 2013, AJ Hospital, Mangalore
3. Dr.Sulatha V.Bhandary : Guest lecture on “Importance of Eyes in Dermatology” – Department of Dermatology, Kasturba Medical College, Manipal On 12-09-2013.
4. Dr.Vijaya Pai H.: Guest speaker for the CME on strabismus held at KMC Manipal on 15-09-2013 and lecture on “Divergent Squint”
5. Dr.Lavanya G.Rao : Chairperson for the session Limbal stem cells-auto graft and allografts during the CME on Ocular surface disorders – video assisted skilltransfer held at Yenepoya Medical College, Mangalore on 22-09-2013
6. Dr.Lavanya G.Rao : Keynote address “ Severe visual impairment in adults and barriers to access eye care “ : 37<sup>th</sup> annual conference of Andhra Pradesh Ophthalmological Society, Warangal, Sept.27-29, 2013

7. Dr.Lavanya G.Rao : Panelist for the session on “Women in Ophthalmology” : 37<sup>th</sup> annual conference of Andhra Pradesh Ophthalmological Society, Warangal, Sept.27-29, 2013
8. Dr.Lavanya G.Rao : Faculty speaker for the session on “Young Ophthalmologist” : 37<sup>th</sup> annual conference of Andhra Pradesh Ophthalmological Society, Warangal, Sept.27-29, 2013
9. Dr.Lavanya G.Rao : Chairperson for a session on “Phaco ref” at CME: Prasad Nethralaya, Udupi 26-05-2013.
10. Dr.Vijaya Pai H.: Guest Lecture at Yenepoya Medical College, Mangalore on 08-05-2013
11. Dr.Lavanya G.Rao : Chairperson for a session on “Retina” at CME on “Eye Tech 2013”: Father Muller’s Medical College, Kankanady, Mangalore, 10-03-2013.
12. Dr.Vijaya Pai H. : Chairperson for a session on “Glaucoma” at CME on “Eye Tech 2013”: Father Muller’s Medical College, Kankanady, Mangalore, 10-03-2013.
13. Dr.Krishna Rao A.: Guest lecture “Clinch the Basics : Fundus examination and diagram :at the CME on “Eye Tech 2013 ” at Father Muller’s Medical College, Kankanady, Mangalore, 10-03-2013.
14. Dr.Shailaja S. : Anti VEGF agents in venous occlusions : CME on Update on Anti-VEGF agents at Fortune Inn, Valley View : 06-01-2013
15. Dr.Krishna Rao A.: Anti VEGF agents - an overview: CME on Update on Anti-VEGF agents at Fortune Inn, Valley View: 06-01-2013

## 2014:

### Guest Speakers / Lectures:

1. Dr.Shailaja S.:“Yellow macular lesion – What is it?”: Invited facultyat the CME on “Macu Yen- Macular diseases investigations and treatment” at Yenepoya Medical College, Mangalore on 21-09-2014.
2. Dr.Shailaja S.:“Macular edema – Diabetic & Nondiabetic”: Invited facultyat the CME on “Macu Yen- Macular diseases investigations and treatment” at Yenepoya Medical College, Mangalore on 21-09-2014.
3. Dr.Krishna Rao A.:“Macular Hole”: Invited facultyat the CME on “Macu Yen- Macular diseases investigations and treatment” at Yenepoya Medical College, Mangalore on 21-09-2014.
4. Dr.Vijaya Pai H.: “Biometry challenges-pediatric and post refractive cases: Invited faculty at the CME on newer and novel concepts in ophthalmology, 17-10-2014.

5. Dr.Shailaja S.:“Evaluation of the posterior segment using Slit lamp”: Invited faculty at the CME on “Kal-d-scope” PG update on basics in ophthalmology under the aegis of KSOS and Calicut Ophthalmic society held at Calicut on 26-10-2014.
6. Dr.Shailaja S.: “FFA interpretation”: Invited faculty at the CME on “Kal-d-scope” PG update on basics in ophthalmology under the aegis of KSOS and Calicut Ophthalmic society held at Calicut on 26-10-2014.

### **Chairperson / Co-Chairperson / Moderator**

1. Dr.Lavanya G.Rao: Chairperson for the session on “Macular hole, indication and outcome of macular surgery” at the CME on “Macu Yen- Macular diseases investigations and treatment” at Yenepoya Medical College, Mangalore on 21-09-2014.
2. Dr.Sulatha V.Bhanary: Moderator for the session on “Macular hole, indication and outcome of macular surgery” at the CME on “Macu Yen- Macular diseases investigations and treatment” at Yenepoya Medical College, Mangalore on 21-09-2014
3. Dr.Sulatha V.Bhanary: Moderator for the session on “AMD and Non AMD related CNVM-catach me early” at the CME on “Macu Yen- Macular diseases investigations and treatment” at Yenepoya Medical College, Mangalore on 21-09-2014
4. Dr.Lavanya G.Rao: Chairperson for the session on “Retina Challenging cases” at the Andhra Pradesh Ophthalmic Conference held at Hyderabad from 8-11 October 2014.
5. Dr.Lavanya G.Rao: Co-chairman for the session on Neurophthalmology: 33<sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9<sup>th</sup> November 2014.
6. Dr.Sulatha V.Bhandary : Chairman for the session on Ocular trauma and comprehensive ophthalmology: 33<sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9<sup>th</sup> November 2014.

### **10.Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years**

With department of Social Preventive Medicine house to house screening project for ophthalmic diseases is being conducted by the department which is an ongoing project. 9535 patients have been screened and counseled during the past two years.

Screening for diabetic retinopathy in Rural Maternity and Child Welfare centres in collaboration with Social Preventive Medicine department is underway, similar project is being conducted in nearby Primary Health Centres in collaboration with the Govt. Health

authorities to detect diabetic retinopathy in general public. 348 patients have been diagnosed and counseled during the past one year.

### Research Projects

Two projects in Retinal imaging have been undertaken with industrial collaboration with the grant of Rs. 12 lakhs and Rs.3 lakhs.

Investigator: Dr. Krishna Rao A., Dr. LavanyaG.Rao

Project title: Retinal Imaging

Location: Dept. of Ophthalmology, KMC, Manipal

Funding agency: I R C Bangalore

Period of research: 1 year.

Amount of research grant: 12 lakhs.

No. of patents received / applied: 1,500

Investigator: Dr. Sulatha V. Bhandary, Dr. Lavanya G. Rao

Project title: Small pupil retinal imaging

Location: Department of Ophthalmology, KMC, Manipal.

Funding agency: 3Nethra, Forus innovation Bangalore

Period of research: 3 months

Amount of research grant: 3 lakhs.

No. of patents received / applied: 500

Project title: Clinical trial of 3 Nethra Royal fundus camera with objective refractometer

Location: Department of Ophthalmology, KMC, Manipal.

Funding agency: 3Nethra, Forus innovation Bangalore

Period of research: 6 months

Amount of research grant: 7 lakhs.

No. of patents received / applied: 2000

## 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past 2 years:

### Ongoing:

Category	Number
Funded research projects	1
Non-funded research projects	--
PhD research projects	2 (Subject expert)
PG research projects	18
UG research projects	---

Last 3 years (2012-14)

Last 3 years:		2012	2013	2014
Completed Funded research projects		--	2	--
Completed Non-funded research projects		--	--	--
Completed PhD research projects		--	--	--
Completed PG research projects		8	5	6
Completed UG research projects		--	--	--
Publications	International	4	8	5
	National	3	5	3
Books		0	0	0
Chapters in books		0	0	0
Conference presentations	International	10	2	8
	National	18	23	31

**Completed PG (MS Ophthalmology) research projects : Year 2012**

S.No.	Thesis title	Name of the Student	Guide
1.	Serial Assessment Of Retinal Nerve Fibre Layer Thickness In Glaucoma Suspects Using Oct And Its Relation To Visual Fields	Dr.AbinHolla	Dr.SulathaV. Bhandary
2.	To Correlate Various Morphological Patterns Of Diabetic Macular Edema Demonstrated By Optical Coherence Tomography With Visual Acuity And Fundus Fluorescein Angiography	Dr.ManjulaBallamu di	Dr.LavanyaG.Rao
3.	Spectral domain oct measured macular thickness in different grades of diabetic retinopathy without csme and its comparision with patients without diabetes.	Kanchibotla Ravi Chandra	Dr.KrishnaRao A.
4.	Comparative assessment of contrast sensitivity with spherical and asphericalintraocular lenses.	Dr.PriyankaShetty	Dr.VijayaPai H.



5.	Comparison of Zeiss IOL Master and immersion ultrasound for IOL calculation	Dr.Divya P.S.	Dr.VijayaPai H.
6.	A study of mechanical Paediatric ocular trauma	Dr.Aditi Singh	Dr.LavanyaG.Rao
7.	Central corneal thickness in ocular hypertension, normal tension glaucoma and primary open angle glaucoma	Dr.NatashaKanwar	Dr.KrishnaRao A.
8.	Detecting hydroxychloroquine retinopathy in patients on long term use of this drug in rheumatoid arthritis and other collagen vascular disorders	Dr.Ashwin M.C.	Dr.LavanyaG.Rao

**Completed PG (MS / D.O.Ophthalmology) Conference presentations guided by Faculty : Year 2012**

Sl. No.	Title (Paper/Poster)	Conference Detail	PG student/Faculty
1.	Glaucoma following penetrating keratoplasty :Case series	All India Ophthalmological Conference, Cochin, February 2-5, 2012	Dr.LavanyaG.Rao, Dr.Ravi Chandra K., Dr.VijayaPai H., Dr.SulathaV.Bhandary, Dr.KrishnaRaoA.
2.	Phacoemulsification in a patient with occlusion pupillae (Video film):	All India Ophthalmological Conference, Cochin, February 2-5, 2012	Dr.VijayaPai H., Dr.ManjulaBallamudi
3.	A case series of endogenous endophthalmitis – clinical and microbiological profile	All India Ophthalmological Conference, Cochin, February 2-5, 2012	Dr.Shailaja S., Dr.Ravi Chandra K.
4.	Unusual neuro-ophthalmic features of dandy walker variant in a paediatric patient	All India Ophthalmological Conference, Cochin, February 2-5, 2012	Dr.ManaliHazarika, Dr.YogishS.Kamath, Dr.AditiSingh, Dr.Asitha Anil Kumar
5.	Intermediate Uveitis with acute disseminated encephalomyelitis (ADEM) (E-poster):	All India Ophthalmological Conference, Cochin, February 2-5, 2012.	Dr.YogishS.Kamath, Dr.Akanksha, Dr.KrishnaRaoAddoor

6.	Carotico Cavernous fistula – an unusual presentation	All India Ophthalmological Conference, Cochin, February 2-5, 2012	Dr.VijayaPai H., Dr.Ashwin M., Dr.AnuragAyachit, Dr.PrathviPai M.,
7.	Rare case series – Corneal anaesthesia following intraocular surgeries	All India Ophthalmological Conference, Cochin, February 2-5, 2012	Dr.SulathaV.Bhandary, Dr.ManjulaBallamudi, Dr.LavanyaG.Rao, Dr.KrishnaRaoAddoor
8.	AxenfeldReiger syndrome – Two unusual cases	Paediatric Ophthalmology oculoplasty International Masters course – Fusion 2012, LV Prasad Eye Institute, Hyderabad, February 12-14, 2012	Dr.VijayaPai H., Dr.GaddeMadhuri
9.	Profile of case series of endophthalmitis at a tertiary care hospital	World Ophthalmology Congress, Abu Dhabi, Feb.16-20, 2012	Dr.SulathaV.Bhandary, Dr.KrishnaRaoAddoor, Dr.LavanyaG.Rao, Dr.PrathviPai M., Dr.Shailaja S.
10.	Visual outcome and prognostic factors in patients with retained IOFB	World Ophthalmology Congress, Abu Dhabi, Feb.16-20, 2012.	Dr.SulathaV.Bhandary, Dr.KrishnaRao A., Dr.LavanyaG.Rao, Dr.Vidya M.
11.	Secondary glaucoma following penetrating keratoplasty: a single surgeon case series	World Ophthalmology Congress, Abu Dhabi, Feb.16-20, 2012.	Dr.LavanyaG.Rao, Dr.SulathaV.Bhandary Dr.KrishnaRaoAddoor , Dr.Ravi Chandra K.
12.	A profile of surgical outcome of congenital dacryocystitis	World OphthalmologyCongress, Abu Dhabi, Feb.16-20, 2012.	Dr.LavanyaG.Rao, Dr.VijayaPai H., Dr.KrishnaRaoAddoor, Dr.SulathaV.Bhandary, Dr.PriyankaShetty
13.	Bilateral neurosensory detachment of macular area simulating central serous chorioretinopathy in a patient with chronic myeloid leukaemia on treatment – a case report	World Ophthalmology Congress, Abu Dhabi, Feb.16-20, 2012	Dr.KrishnaRaoAddoor., Dr.LavanyaG.Rao, Dr. Ravi Chandra K.,Dr.AjayKamath

14.	Visual and surgical outcome following retinal detachment surgeries – a single surgeon case series (Poster) :	World Ophthalmology Congress, Abu Dhabi, Feb.16-20, 2012	Dr.KrishnaRaoAddoor. Dr.SulathaV.Bhandary, Dr.LavanyaG.Rao, Dr.Priyankashetty, Dr.,Vidya M
15.	Macular thickness in different grades of diabetic retinopathy without clinically significant macular edema and its comparison with nondiabetics – a prospective study (Paper):	World Ophthalmology Congress, Abu Dhabi, Feb.16-20, 2012	Dr.KrishnaRaoAddoor Dr.LavanyaG.Rao, Dr. Ravi Chandra K.
16.	“Comparison of partial coherence laser interferometry based zeiss IOL Master 500 and immersion ultrasound (Ocuscan RXP) for intraocular lens power calculation”	Intraocular Implant & Refractive Society annual conference, Chennai, 7-8, July 2012	Dr.VijayaPai H., Dr.Divya P.S.
17.	Prevalence of severe visual impairment in >18 year age group and barrier to access eye care services in a field practice area of a tertiary care hospital :	9 <sup>th</sup> General assembly of International agency for the prevention of blindness (IAFB) held at Hyderabad, 17-20 Sept.2012.	Dr.LavanyaG.Rao, Dr.Dushyant Kumar
18.	Microspherophakia with AxenfelReiger syndrome - A rare case report	2 <sup>nd</sup> world congress of Paediatric Ophthalmology & Strabismus, held at Milan, Italy from 7 <sup>th</sup> to 9 <sup>th</sup> September 2012	Dr.VijayaPaiH .
19.	A study of clinical profile of glaucoma in paediatric age group	31 <sup>st</sup> Annual State conference of Karnataka Ophthalmological Society, held at Bijapur, 2 <sup>nd</sup> to 4 <sup>th</sup> November 2012.	Dr.VijayaPai,

20.	Outcome of surgical treatment of esotropia	31 <sup>st</sup> Annual State conference of Karnataka Ophthalmological Society, held at Bijapur, 2 <sup>nd</sup> to 4 <sup>th</sup> November 2012.	Dr.VijayaPai H., Dr.PrachiParmar
21.	ICE Syndrome – a case series	31 <sup>st</sup> Annual State conference of Karnataka Ophthalmological Society, held at Bijapur, 2 <sup>nd</sup> to 4 <sup>th</sup> November 2012.	Dr.SaritaGonsalves, Dr.Narasimha Reddy, Dr.Vivekanand U.
22.	A very rare case of orbital botryomycosis	31 <sup>st</sup> Annual State conference of Karnataka Ophthalmological Society, held at Bijapur, 2 <sup>nd</sup> to 4 <sup>th</sup> November 2012	Dr.LavanyaG.Rao, Dr.AkankshaSinha
23.	Atypical coats disease	31 <sup>st</sup> Annual State conference of Karnataka Ophthalmological Society, held at Bijapur, 2 <sup>nd</sup> to 4 <sup>th</sup> November 2012.	Dr.LavanyaG.Rao, Dr.Divya P.S., Dr.Manjula B., Dr.KrishnaRao A.
24.	Wilson's disease and eye	31 <sup>st</sup> Annual State conference of Karnataka Ophthalmological Society, held at Bijapur, 2 <sup>nd</sup> to 4 <sup>th</sup> November 2012.	Dr.SaritaGonsalves, Dr.MadhuriGadde
25.	“Acute postoperative endophthalmitis due to multidrug resistant Enterobacter – a rarity”	Vitreo Retina Society India-2012 to be held at Guwahati from 6 <sup>th</sup> to 8 <sup>th</sup> December 2012.	Dr.Shailaja S., Dr.VivekanandU. Dr.ChiranjayMukhopadhyaya, Dr.PrachiParmar
26.	“Correlation between spectral domain optical coherence tomography findings and fluorescein angiography patterns in diabetic macular edema”	Vitreo Retina Society India-2012 to be held at Guwahati from 6 <sup>th</sup> to 8 <sup>th</sup> December 2012.	Dr.Shailaja S. Dr.GaddeMadhuri
27.	“Bilateral ocular Ischaemic Syndrome as a presenting symptom of	8 <sup>th</sup> International Symposium of Ophthalmology held at	Dr.Shailaja S.

Takayasu Arteritis”	Hong Kong from 14 <sup>th</sup> to 16 <sup>th</sup> December 2012.
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**Completed PG (MS Ophthalmology) research projects : Year 2013**

Sl.No.	Thesis title	Name of the Student	Guide
1.	Comparison of Zeiss IOL Master and immersion ultrasound for IOL calculation	Dr.Divya P.S.	Dr.Vijaya Pai H.
2.	A study of mechanical Paediatric ocular trauma	Dr.Aditi Singh	Dr.Lavanya G.Rao
3.	Central corneal thickness in ocular hypertension, normal tension glaucoma and primary open angle glaucoma	Dr.Natasha Kanwar	Dr.Krishna Rao A.
4.	Detecting hydroxychloroquine retinopathy in patients on long term use of this drug in rheumatoid arthritis and other collagen vascular disorders	Dr.Ashwin M.C.	Dr.Lavanya G.Rao
5.	Comparison of Cardiff acuity card test * Lea symbol test in assessment of visual acuity in children, 2-5 years of age, with and without developmental delay – A prospective observational study	Dr.VidyaMuraleedharan	Dr.LavanyaG.Rao

**Completed PG (MS / D.O.Ophthalmology) Conference presentations guided by Faculty : Year 2013**

Sl.No.	Title (Paper/Poster)	Conference Detail	PG student/Faculty
1.	Recurrent epithelial defects of cornea in rheumatoid arthritis	IADV National Conference at Ahmedabad, Gujarat, Jan. 24-27, 2013.	Dr.Prathvi Pai, Dr.Sudhir Nayak,
2.	Incidence of ROP and analysis of its risk factors in tertiary care hospital (E poster)	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress & All India Ophthalmological Conference,	Dr.Krishna Rao, Dr.Manali Hazarika, Dr.Mithun, Dr.Jayashree P.

		Hyderabad, Jan. 17-20, 2013.	
3.	Recurrent Hypopyon in an undetected angle foreign body (3 years duration) (E poster)	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological Conference, Hyderabad Jan. 17-20, 2013	Dr.Krishna Rao, Dr.Lavanya G.Rao, Dr.Sulatha V.Bhandary, Dr.Natasha
4.	Neuroretinitis – etiological and clinical profile (E poster)	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological Conference, Hyderabad, Jan. 17-20, 2013	Dr.Asitha Anil Kumar K Dr.Shailaja S., Dr.Yogish S.Kamath, Dr.Krishna Rao A., Dr.Lavanya G.Rao, Dr.Vijaya Pai H.,
5.	Prevalence of risk factors associated with Age related macular degeneration(ARMD) (E poster)	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological Conference, Hyderabad, Jan. 17-20, 2013	Dr.Vijaya Pai H., Dr.Madhuri Gadde
6.	Comparison of efficacy of trabeculectomy with and without 0.02% MMC (E poster)	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological Conference, Hyderabad, Jan. 17-20, 2013.	Dr.Vijaya Pai H., Dr.Manali Hazarika, Dr.Madhuri Gadde
7.	Comparison of partial coherence laser interferometry based zeiss IOL master 500 and immersion ultrasound (Ocuscan RXP) for Intraocular Lens power calculation:	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological	Dr.Divya P.S , Dr.Vijaya Pai H., Dr.Yogish S.Kamath,

	(E poster)	Conference, Hyderabad, Jan. 17-20, 2013.	
8.	Analysis of Mechanical Paediatric Ocular trauma (E Poster)	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological Conference, Hyderabad, Jan. 17-20, 2013.	Dr.Lavanya G.Rao, Dr.Aditi Singh
9.	Analysis of Paed. Ocular trauma	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological Conference, Hyderabad, Jan. 17-20, 2013	Dr.Lavanya G.Rao, Dr.Aditi Singh
10.	Non mydriatic fundus camera as a screening tool – how accurate can it be???(E poster)	28 <sup>th</sup> Asia Pacific Academy of Ophthalmology congress, & All India Ophthalmological Conference, Hyderabad, Jan. 17-20, 2013	Dr.Sulatha V.Bhandary, Dr.Lavanya G.Rao, Dr.Krishna Rao A
11.	Clinical & Microbiologic profile of endogenous endophthalmitis secondary to staphylococcus aureus bacteremia : a case series	Delhi Ophthalmic Society annual conference, April 12-14, 2013	Dr.Ketaki Rajurkar, Dr.Shailaja S., Dr.Vivekanand U., Dr.Krishna Rao A., Dr.Ragini
12.	Incidence of Glaucoma in paediatric aphakic patients: An intercontinental Perspective of Pediatric Ophthalmology & Strabismus	AAPOS & SNEC Joint Meeting, July 14-16, 2013, Singapore.	Dr.Vijaya Pai H., Dr.Shilpa Rao
13	Comparitive study of quality of life in patients with glaucoma and	Annual conference of Glaucoma Society of	Dr.Pallak Kusumgar, Dr.Sulatha



	controls using the glaucoma quality of life – 15 questionnaire”	India, Indore, Sept.20-21, 2013.	V.Bhanday
14	Clinical course of primary angle closure / primary angle closure glaucoma following laser peripheral iridotomy”	Annual conference of Glaucoma Society of India, Indore, Sept.20-21, 2013.	Dr.Vijaya Pai H., Dr.Akanksha
15	Profile of case series of microbial keratitis in a tertiary care hospital (paper)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Sulatha V.Bhandary, Dr.Kumud Jeswani, Dr.Lavanya G.Rao, Dr.Krishna Rao A., Dr.Akanksha
16	Quality of life issues and treatment problems in glaucoma (Paper)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Sulatha V.Bhandary, Dr.Pallak Kusumgar, Dr.Lavanya G.Rao, Dr.Krishna Rao A. Dr.Akanksha
17	Prevalence of vision threatening diabetic retinopathy (Vtdr) requiring vitrectomy and visual outcome after vitrectomy (Paper)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Lavanya G.Rao, Dr.T.V.Narasimha Reddy, Dr.Krishna Rao, Dr.Shailaja S., Dr.Sulatha V.Bhandary Dr.Akanksha
18	Spectral domain optical coherence tomography (SD-OCT): Features of Idiopathic juxtafoveal retinal telangiectasia type 2A (Paper)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Sarita R J Gonsalves, Dr.Shailaja S., Dr.Vivekanand U., Dr.Yogish S.Kamath, Dr.Narasimha Reddy, Dr.Asitha Anil Kumar, Dr.Sripal, Dr.Akanksha

19	Rare presentation of myopia with bilaterally dislocated crystalline lens causing papillary block glaucoma in one eye (Poster)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Krishna Rao Addoor, Dr.Pallak Kusumgar, Dr.Sulatha V.Bhandary, Dr.Lavanya G.Rao, Dr.Madhuri Gadde: Dr.Akanksha
20	Corneal anaesthesia following intraocular surgeries-case series (Poster)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Lavanya G.Rao, Dr.Sulatha V.Bhandary, Dr.Krishna Rao Addoor, Dr.Manjula Ballamudi, Dr.Dushyant Kumar: Dr.Akanksha
21	A case of bilateral corneal perforation due to congenital isolated lid coloboma with symblepharon (Poster)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Undrakonda Vivekanand Dr.Shailaja S., Dr.Sripal A., Dr.Leslie Lewis, Dr.Girish K.M., Dr.Vijaya Pai H., Dr.Akanksha
22	A rare case of membranous conjunctivitis in a patient with congenital Icthyosis (Poster)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Lavanya G.Rao, Dr.Krishna Rao A., Dr.Sulatha V.Bhandary, Dr.Akanksha, Dr.Dushyant Kumr, Dr.Kumud Jeswani Dr.Akanksha
23	Optic disc granuloma : A rare presentation of tuberculosis (Poster)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Yogish Subraya Kamath, Dr.Ketaki Rajurkar, Dr.Krishna Rao, Dr.Madhuri Gadde Dr.Akanksha

24	Unusual presentation of direct cow horn injury to the eye (Poster)	32 <sup>nd</sup> Karnataka State Ophthalmic conference, Hassan, 8-10 Nov.2013	Dr.Yogish Subraya Kamath, Dr.Smita Kapoor, Dr.Vidya Muraleedharan Dr.Akanksha
25	Subfoveal serous retinal detachment in branch retinal vein occlusion (Paper)	Vitreo retinal society conference, Pune, Maharashtra, 12-15 <sup>th</sup> December 2013	Dr.Shailaja S., Dr.Jeswani Kumud, Dr.Vivekanand U., Dr.Lavanya G.Rao, Dr.Krishna Rao A.

### Completed PG (MS Ophthalmology) research projects : Year 2014

Sl.No.	Thesis title	Name of the Student	Guide
1.	Ocular manifestations in connective tissue disorders	Dr.Asitha Anil Kumar	Dr. VijayaPai H.
2.	Regression pattern of diabetic macular oedema after single injection bevacizumab (Avastin)	Dr.KetakiRajurkar	Dr.KrishnaRao A.
3.	Prevalence of 'sight threatening diabetic retinopathy necessitating vitrectomy and visual outcome of the same after vitrectomy among the diabetics attending the tertiary health care centre	Dr.Narasimha Reddy	Dr.LavanyaG.Rao
4.	Prevalence of risk factors associated with age related macular degeneration among elderly above 50 years of age visiting eye OPD at Kasturba hospital, Manipal – a prevalence study	Dr.GaddeMadhuri	Dr. VijayaPai H
5.	A study on prevalence of severe visual impairment in > 18 year age group and barrier to access eye care services in a field practice area of a tertiary care hospital	Dr.Dushyant Kumar	Dr.LavanyaG.Rao
6.	Screening of diabetic retinopathy using mobile indigenous	Dr.Akanksha	Dr.LavanyaG.Rao

nonmydriatic fundus camera in primary health centre in Udupi district		
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**Completed PG (MS / D.O.Ophthalmology) Conference presentations guided by Faculty : Year 2014**

Sl.No.	Title (Paper/Poster)	Conference Detail	PG student/Faculty
1.	“Screening for Diabetic Retinopathy with mobile non mydriatic fundus camera in primary health centres” (Paper)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Lavanya G. Rao, Dr. Akanksha, Dr. Krishna Rao A., Dr. Sulatha V. Bhandary,
2.	Cardiff Cards vs. Lea Symbols in vision test of 2-5 year old children with & without development delay” (Poster)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Lavanya G. Rao, Dr. Krishna Rao A., Dr. Sulatha V. Bhandary, Dr. Vidya Muraleedharan,
3.	“Prevalence of severe visual impairment of adults – House to house survey” –(Poster)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Lavanya G. Rao, Dr. Dushyant Kumar
4.	“Comparison of Quality of life in cases and controls using glaucoma quality of life–15 Questionnaire”- (poster)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Sulatha V. Bhandary, Dr. Pallak Kusumgar, Dr. Lavanya G. Rao, Dr. Krishna Rao A., Dr. Smita Kapoor,
5.	“Diagnosis and treatment of ocular condition in pre-school children attending ophthalmologist tertiary	72 <sup>nd</sup> Annual Conference of All India	Dr. Lavanya G. Rao, Dr. Kumud Jeswani, Dr. Sulatha V.

	care centre” – (Poster)	Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Bhandary, Dr. Krishna Rao A
6.	“Anemia and diabetic macular edema – an optical coherence tomography (OCT) based study”-(Poster),	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Shailaja S., Dr. Vivekanand U., Dr. Sarita Gonsalves, Dr. Krishna Rao A.
7.	“Is low hemoglobin a risk factor for serous macular detachment in diabetic macular edema? ”(Poster)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Sarita Gonsalves, Dr. Shailaja S., Dr. Vivekanand U., Dr. Yogish S. Kamath,
8.	“Ocular manifestations of connective tissue disorders” – (Poster)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Vijaya Pai. H., Dr. Asitha Anilkumar,
9.	“Vitamin D insufficient and severity of diabetic retinopathy – Is there any relationship?” (Poster)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February 2014.	Dr. Vivekanand U., Dr. Shilpa G. Rao, Dr. Shailaja S., Dr. Sarita Gonsalves,
10.	Cerotico-Cavernous fistula : Varied age, varied presentation (Poster)	72 <sup>nd</sup> Annual Conference of All India Ophthalmological Society (AIOS) Agra, 6 <sup>th</sup> to 9 <sup>th</sup> February	Dr. Yogish S. Kamath, Dr. Pallak Kusumgar

		2014.	
11.	Clinical & Microbiological profile of endogenous endophthalmitis secondary to septicemia with MRSA (Poster)	“KC MICRON 2014 Rickettsial diseases – an overview” : Manipal, 23 <sup>rd</sup> Feb.2014	Dr.Meena Thotakura, Dr.Yogish S.Kamath, Dr.Sarita Gonsalves, Dr.Shailaja S., Dr.Rajani Devi,
12.	Bilateral macular retinitis with macular edema secondary to rickettsial infection in southern India – a case report: (Poster)	“KC MICRON 2014 Rickettsial diseases – an overview” : Manipal, 23 <sup>rd</sup> Feb.2014	Dr.Ketaki Rajurkar, Dr.Yogish S.Kamath, Dr.Sarita Gonsalves, Dr.Shailaja S.
13.	Analysis of case series of paediatric mechanical ocular trauma (Poster)	World Ophthalmology Congress 2014, Tokyo, Japan, 2-6 April 2014	Dr.Lavanya G.Rao, Dr.Aditi, Dr.Akanksha, Dr.Krishna Rao A., Dr.Sulatha V.Bhandary:
14.	Diagnosis and treatment of ocular condition in preschool children attending ophthalmology tertiary care centre (Poster)	World Ophthalmology Congress 2014, Tokyo, Japan, 2-6 April 2014.	Dr.Lavanya G.Rao, Dr.Kumud, Dr.Krishna Rao A., Dr.Sulatha V.Bhandary, Dr. Akanksha
15.	Screening for diabetic retinopathy with mobile non-mydratic fundus camera in primary health centres (Poster)	World Ophthalmology Congress 2014, Tokyo, Japan, 2-6 April 2014	Dr.Lavanya G.Rao, Dr.Akanksha, Dr.Krishna Rao A., Dr.Sulatha V.Bhandary, Dr. Dushyant Kumar
16	Endophthalmitis – characteristics, management and outcome 5 years retrospective review in southern India ( Poster)	World Ophthalmology Congress 2014, Tokyo, Japan, 2-6 April 2014	Dr.Lavanya G.Rao, Dr.Pallak, Dr.Sulatha V.Bhandary, Dr.Krishna Rao A.,Dr.Prathvi Pai

17	Morphometric analysis of peripapillary thickness in hypertensive and normotensive age matched controls using spectral domain optical coherence tomography (Paper)	World Ophthalmology Congress 2014, Tokyo, Japan, 2-6 April 2014	Dr.Smita Kapoor, Dr.Krishna Rao A.,Dr.Lavanya G.Rao, Dr.Sulatha V.Bhandary, Dr.Pallak
18	Bilateral blindness due to ATT : A rare case (Poster)	Student research poster competition, Manipal University, 11-12 April 2014.	Dr.Akshay Sehgal, Dr.Pallak Kusumgar, Dr.Sulatha V.Bhandary
19	Cushingoid features following steroid eye drops(Poster)	Student research poster competition, Manipal University, 11-12 April 2014.	Dr. Pallak Kusumgar, Dr.Lavanya G.Rao, Dr.Sulatha V.Bhandary:
20	Endophthalmitis after UTI (Poster)	Student research poster competition, Manipal University, 11-12 April 2014	Dr.Sindhura Devi, Dr.Krishna Rao A., Dr.Sulatha V.Bhandary
21	Translucent swelling of the eyelid – unusually large eccrine hidrocystoma (Poster)	A TO Z Oculoplasticfest 2014 : Asia Pacific Society of Ophthalmic Plastic and reconstructive surgery, Delhi : 26-28 Sept.2014.	Dr.Vijaya Pai H., Dr.Pallak Kusumgar
22	An unusual case of multiple lid swellings – adult – onset asthma and severe periocular xanthogranuloma (Paper)	A TO Z Oculoplasticfest 2014 : Asia Pacific Society of Ophthalmic Plastic and reconstructive surgery, Delhi : 26-28 Sept.2014	Dr.Pallak Kusumgar, Dr.Vijaya Pai H.,Dr.Vidya Muralidharan
23	Online surveys:can they be used in community ophthalmic research? (Paper)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Undrakonda Vivekanand Dr.Yogish Subraya Kamath,



			Dr.Shailaja S. Bhat, Dr.Sarita R J Gonsalves
24	Desparity between visual fields and optical coherence tomography (OCT) in glaucoma suspects. (paper)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014.	Dr.Sulatha Bhandary, Dr.Pallak Kusumgar, Dr.Lavanya G.Rao, Dr.Krishna Addoor Rao, Dr.Abin Holla
25	Vitamin D levels in patients with diabetic retinopathy (Paper)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014.	Dr.Shilpa Rao, Dr.Vijaya Pai H.
26	A case of unilateral free-floating cyst (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014.	Dr.Chidanand Kulkarni, Dr.Akshay Sehgal, Dr.Sindhura Devi
27	MRSA infection of the lacrimal system and its management (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014.	Dr.Smita Kapoor, Dr. Rajanidevi Jampala, Dr.Manjula Ballamudi, D.Sindhura Devi
28	Unilateral proptosis secondary to Adenocarcinoma Prostate (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Manali Hazarika, Dr.Rajashree Prabhu, Dr.Vijaya Pai H., Dr.Shailaja Bhat
29	Orbital abscess secondary to MRSA sepsis (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014.	Dr.Lavanya G.Rao, Dr.Sathya Hareesh Reddy, Dr.Sulatha V.Bhandary, Dr.Krishna Rao A., Dr.Priyanka Shetty
30	Dog bite injury and its management in paediatric age group (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Lavanya G.Rao, Dr.Rajani Devi Jampala, Dr.Krishna Rao A., Dr.Sulatha

			V.Bhandary, Dr.Pallak Kusumgar
31	Unilateral sudden visual loss as presenting feature of polycythemia vera (Poster):	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Shailaja Shenoy, Dr.Smita Kapoor
32	Rare presentation of a patient with choroidal metastasis (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014.	Dr.Krishna Rao, Dr.Smita Kapoor, Dr.Sarita Gonsalves
33	Interesting case of herpetic uveitis going into keratitis (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Yogish S.Kamath, Dr.Kumud Jeswani, Dr.Krishna Rao, Dr.Ram Bhat, Dr.Sameer I
34	Does optical coherence tomography (OCT) pattern of macular oedema secondary to branch retinal vein occlusion (BRVO) affect the response to intravitreal bevacizumab injection (Paper)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Anupama B., Dr.Kumud Jeswani, Dr.Shailaja S., Dr.Krishna Rao A
35	Bilateral anterior uveitis with central retinal vein occlusion in Waldenstrom's macroglobulinaemia (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Shailaja Bhat Shenoy, Dr.Rajashree Prabhu, Dr.Yogish S.Kamath
36	Bilateral idiopathic peripapillary choroidal Neovascularisation treated with bevacizumab (Poster)	33 <sup>rd</sup> Karnataka State Ophthalmic Conference, Mysore, 7-9 <sup>th</sup> November 2014	Dr.Pallak Kusumagar, Dr.Shailaja S., Dr.Sarita Gonsalves, Dr. Sathya Hareesh Reddy
37	Macular retinitis in two patients with rickettsial infection in South India (Poster)	14 <sup>th</sup> Annual Meeting Uvetis Society of India, India Habitat Centre New Delhi, 22 - 23 November 2014	Dr.Smita Kapoor, Dr.Shailaja B Shenoy, Dr.Sarita Gonsalves

38	IOL power calculation in Myopes (Paper):	Asia Pacific Association of Cataract and refractive surgery, Jaipur, 13-16 Nov. 2014	Dr.Pallak Kusumgar, Dr.Vijaya Pai H.
39	Macular Retinitis with rickettsia in two patients in South India (Poster)	Uveitis Society of India Conference, 2014 (USI), New Delhi, 22-23 Nov. 2014	Dr.Smita Kapoor, Dr.Yogish S.Kamath, Dr.Shailaja Shenoy, Dr.Sarita Gonsalves

The detailed outline of projects is given below

Our on-going funded projects are:

Sl.No.	Title	Principal Investigator	Funding agency	Total amount received
1.	Clinical trial of 3 Nethra royal fundus camera with Objective Refractometer	Dr.SulathaV. Bhandary	Forus Health	7.0 lacs

Our ongoing PhD research projects are:

Sl.No.	Title	Name of student	Name of the Guide
1.	Evaluation of Pro angiogenic and anti-angiogenic factor in diabetic retinopathy	BhaskarGaonkar	Dr.KrishnaRao A. (Subject expert)
2.	Automated identification of Diabetic Eye Diseases using digital fundus images	Kevin PrathapNoronha	Dr.SulathaV.Bhandary (Subject expert)

Ongoing PG (MS Ophthalmology) research projects:

Sl.No.	Title	Name of the Student	Guide
1.	Comparison of posterior capsule opacification following implantation with acrylic hydrophobic intraocular lens and hybrid intraocular lens	Dr.AtiyaPathan	Dr.VijayaPai H.
2.	Vitamin D insufficiency and diabetic retinopathy : a cross sectional study in KMC Manipal	Dr.ShilpaG.Rao	Dr.Vivekanand U.

3.	Assessing quality of life in patients with glaucoma using the glaucoma quality of life – 15 questionnaire	Dr.PallakKusumgar	Dr.SulathaV.Bhandary
4.	Morphometric analysis of peripapillary thickness in hypertensives and normotensive age matched controls using optical coherence tomography	Dr.SmitaKapoor	Dr.KrishnaRao A.
5.	Diagnosis and treatment of ocular disorders in preschool children attending tertiary care ophthalmology centre	Dr.KumudJeswani	Dr.LavanyaG.Rao
6.	Diagnosis and treatment of ocular disorders in preschool children attending tertiary care ophthalmology centre	Dr.Kumud Jeswani	Dr.Lavanya G.Rao
7.	Ocular status of children born pre-term: An analysis of the first 3 years	Dr.Akshay Sehgal	Dr.Krishna Rao A.
8.	Ocular surface diseases in patients with glaucoma on antiglaucoma medications in Kasturba Hospital, Manipal, during 2013-15	Dr.L.Sathya Hareesh Reddy	Dr.Vijaya Pai H
9.	Study of spontaneous retinal venous pulsation in primary open angle glaucoma, normal tension glaucoma and ocular hypertension as compared to controls	Dr.A.Simdhura Devi	Dr.Sulatha V.Bhandary
10.	Assessment of ocular morbidity in hypertensive population in Kasturba hospital, Manipal during 2013-2015	Dr.Rajashree Prabhu	Dr.Vijaya pai H.
11.	Relationship of age related cataract and serum Vitamin C level	Dr.Sameer I	Dr.Lavanya G. Rao
12.	Social economic and behavioral determinants of utilization and non-utilization of cataract surgery in eye camps	Dr.Rajani Devi	Dr.Lavanya G.Rao
13.	Ocular manifestations in Inherited	Dr.Aakanksha	Dr.Krishna Rao A.

	Renal Diseases		
14.	Ocular biometry and primary open angle glaucoma	Dr.Rohit Simha Thota	Dr.Vijaya Pai H.
15.	Predictability of SRK / T formula in calculating INTRAOPCULAR LENS (IOL) power in eyes with short and long axial length	Dr.V.Nishant Janaardhana Raju	Dr.Vijaya Pai H.
16.	Association between diabetic foot and diabetic retinopathy: A cross sectional study of KMC Manipal	Dr.Thoiba Karam	Dr.Lavanya G.Rao
17.	Intraocular pressure changes after intravitreal Bevasizumab injection	Dr.Ashish Rander	Dr.Lavanya G.,Rao
18.	Near work and its correlation with myopia in medical students	Dr.Katta Kavya Reddy	Dr.Sulatha V.Bhandary

### Research & Publications:

2012

#### International Indexed Journals:

1. Noronha K<sup>1</sup>., Acharya UR<sup>2</sup>, Nayak KP<sup>3</sup>, Kamath S.<sup>4</sup>, Bhandary SV<sup>5</sup>  
Decision support system for diabetes retinopathy using discrete wavelet transform: Journal of engineering in Medicine 0954411912470240, Dec.28,2012 as doi:10.1177/0954411912470240
2. Dr.ShanthaAmrith, Dr.VijayaPai H., Dr.Wong Wan Ling : Periorbital necrotizing fasciitis – a review : Acta Ophthalmology 2012 : Page No.1-7, Online journal
3. Dr.Vivekanand U. Trench Lollipop, lift and chop technique for mild to moderate cataracts: Nepal Journal Ophthalmol. 2012 4 (8) : 344 – 345
4. Dr.MascarenhasRoshan, ShamaPrasadaKabekkodu, PaiH.Vijaya, KamathManjunath, JochenGraw, PM Gopinath, KapeattuSatyamoorthy: Analysis of mitochondrial DNA variations in Indian patients with congenital cataracts. Molecular vision 2012: 18 : 181-193 Published 24 January 2012.

#### National indexed Journals:

1. Dr.Yogish S.Kamath, Dr.Preeti Gupta, Dr.Krishna Rao A., Dr.Shailaja S. : Atypical presentation of lung carcinoma: Journal of postgraduate Medicine, Vol.58, Issue 2, year 2012, ISSN 0022-3859, CD ISSN 0972-2823, Pg.153-154.

**National Non-indexed Journals:**

1. Dr.SulathaV.Bhandary, Dr.VijayaPai H.: Intractable Glaucoma following Bee Sting Injury – A case report: Kerala State Ophthalmic Journal Vol. XXIV Issue 1, March 2012 ISSN 0976 -6677 Page No. 68-69.
2. Dr. Lavanya G. Rao, Dr. Sulatha V. Bhandary, Dr. Krishna Rao A., Mr. Akash Gupta, Mr. EkanshDebuka : Noduloulcerativescleritis – a rare presentation of tuberculosis – case report : Chakshu, Vol. 29, No.3, Dec.2012, Page:64-66
3. Dr.Vijaya Pai H., Dr.Chinnappa AG.: Comparison of corneal endothelial morphology and central corneal thickness in diabetes and age matched non diabetics: Kerala Journal of Ophthalmology, Vol.No.XXIV, Issue No.4, Dec.2012, Pg. 345-349

**2013****International Indexed Journals:**

1. Dr.Shailaja S., G.Vivek, Ranjan Shetty, Yogish Kamath :‘Eye is a window to the pulse’: bilateral ocular ischaemic syndrome as a presenting anifestationof Takayasu arteritis: BMJ Case reports : 2013.doi:10.1136/bcr-2013-009461, June 2013
2. Dr. Yogish Kamath, Dr.Akanksha Sinha :‘Ocular argyrosis in a Jeweller’: BMJ Case reports : 2013.doi:10.1136/bcr-2013-009742, June 2013
3. Dr.Sarita Gonsalves, Dr.Geover Joslen Lobo, Dr.Norman Mendonca: Truth under a masquerade!:BMJ Case reports : 2013.doi:10.1136/bcr-2013-200262, June 2013
4. Dr.Vijaya Pai H., Dr.Prathvi Pai M., Mary Mathew: A rare case of isolated eyelid myxoma: Journal of Pakistan Association of Dermatologists 2013;23(2):240-242; August 2013
5. Dr.Lavanya G Rao, Dr.Sarita R J Gonsalves, Dr.Atiya Pathan, Dr.Akansha Sinha: Primary orbital chronic granulomatous reaction to deep staphylococcal infection due to traumain immune competent : BMJ Case reports : 2013. doi:10.1136/bcr-2013-010414, August 2013
6. Shailaja S. Bhat, MS<sup>1</sup>, Vivekanand Undrakonda, MS, DNB<sup>1</sup>,Chiranjay Mukhopadhyay, MD<sup>2</sup>, Prachi Vikramsinh Parmar, MBBS<sup>1</sup> : Outbreak of Multidrug-resistant Acute Postoperative Endophthalmitis due to Enterobacter aerogenes\* : Ocular Immunology & Inflammation, Early Online, 1–6, 2013, ! Informa Healthcare USA, Inc. ISSN: 0927-3948 print / 1744-5078 onlineDOI: 10.3109/09273948.2013.830752 : Vol.22, No.2, Page: 121-126
7. Shailaja S., Yogish Kamath, Manali Hazarika, Shashidhar Vishwanath: Acute post-traumatic endophthalmitis secondary to Propionibacterium acnes: BMJ Case Rep 2013. doi:10.1136/bcr-2013-201452, October 2013.

8. Kevin P.Noronha, U.Rajendra Acharya, K.Prabhakar Nayak, Roshan Joy Martis, Sulatha V.Bhandary: Automated classification of glaucoma stages using higher order cumulant features: Journal of Biomedical Signal Processing and control: /dx.doi.org/10.1016/j.bspc.2013.11.006
9. Rohit Singh, Balakrishnan Ramaswamy, Manali Hazarika : Juvenile aggressive cement-ossifying fibroma of the sphenoid sinus with proptosis : a surgical dilemma : Case report: BMJ Case Rep.2013, doi 10.1136/bcr-2013-201578. Dec.2013.

### National Indexed Journals:

1. Dr.Yogish S.Kamath, Dr.Ratinam SR, Dr.Kawali Ankush : Ocular toxoplasmosis associated with scleritis : Indian Journal of Ophthalmology, Vol.61, Issue 6, page.295-297, June 2013
2. Dr.Rao Krishna A, Purkayastha Jayashree, Hazarika Manali,, Chaitra Raghuvamsi, Adith K.Mithun: Analysis of prenatal and postnatal risk factors of retinopathy of prematurity in a tertiary care hospital in South India, Indian Journal of Ophthalmology, Vol.61, No.11, pg.640-644.
3. Dr. Yogish Kamath, Dr.Singh A.,Dr.Shailaja S.,Dr .Sripathi H\*(Dermatology):.Acute onset myopia as a presenting feature of systemic lupus erythematosus: Journal of Postgraduate Medicine, Vol.59, Issue 3, July – September 2013 Pg. 245-246
4. Z.A.Khan, Sudha Vidyasagar, Ragini Bekur, sushma Belurkars, S.Shailaja : Subhyaloid haemorrhage in a patient with vitamin B12 sufficiency : A unique presentation – Case report: J Clin Sci Res 2013 ; 2 : 161-4

### 2014

#### International Indexed Journals:

1. Krupa H. Shah<sup>a</sup>, **Sarpangala Shailaja<sup>b</sup>** and Katta M. Girisha<sup>a</sup> : <sup>a</sup>Department of Pediatrics, Division of Medical Genetics and <sup>b</sup>Department of Ophthalmology, Kasturba Medical College, Manipal University, Manipal,Karnataka, India : Is coloboma a feature of fetal valproate syndrome?: Clinical Dysmorphology 2014, 23:24–25
2. Vinay Khanna<sup>1</sup>, Sandeep Shenai<sup>2</sup>, Kriti Tilak<sup>1</sup>, S.Shailaja<sup>3</sup>, Nidhi Malik<sup>1</sup>, V.Shashidhar<sup>1</sup> and Chiranjay Mukhopadhyay<sup>1</sup>, <sup>1</sup>Dept.of Microbiology, Kasturba Medical College, Manipal University, Karnataka, India, <sup>2</sup>Mahalaxmi Eye Clinic & Laser Centre, Udupi, Karnataka, India, <sup>3</sup>Dept.of Ophthalmology, Kasturba Medical College, Manipal University, Karnataka, India:Subcutaneous Infection with Dirofilaria



- repens – A Case Report : Human Parasitic diseases 2014-6, *Libertas Academica*, April 2014.
3. Bhat SS<sup>1</sup>, Undrakonda V<sup>2</sup>., Mukhopadhyay C<sup>3</sup>., Parmar PV<sup>1</sup> : <sup>1</sup>Dept.of Ophthalmology, Kasturba Medical College, Manipal University, <sup>2</sup>Dept.of Ophthalmology, Alluri Sitarama Raju Academy of Medical Sciences, Elluru, West Godavari, Andhra Pradesh, <sup>3</sup>Dept.of Microbiology, Kasturba Medical College, Manipal University, Karnataka, India : Letter to Editor: Outbreak of multidrug-resistant acute postoperative endophthalmitis due to enterobacter aerogenes: *Ocular Immunology & Inflammation*, Early online1, Oct. 2014
  4. Dr.Chidanand Kulkarni, Vivekanand U.,:Dept.of Ophthalmology, KMC Manipal:Extra large temporal tunnel cataract extraction (ETCE): *Journal of clinical and diagnostic Research*. 2014 Sep, Vol-8(9): VC01-VC04.
  5. : Dr.Chidanand Kulkarni, Twinkle Ann George, Asha AV, Risha Ravindran: Dept.of Ophthalmology, KMC, Manipal :Acute angle closure glaucoma with capillary leak syndrome following snake bite : *Journal of clinical and diagnostic Research*. 2014 Oct, Vol-8(10): VC01-VC03.

#### National Indexed Journals:

1. <sup>1</sup>Dr.Sulatha Bhandary, MS, DNB<sup>1</sup>Dr.Vijaya Pai H.MS, DO, <sup>1</sup>Dr.Lavanya G.Rao, MS, DOMS, <sup>2</sup>Dr.PrakashPeralam Yegneswaran, <sup>1</sup>Dept. of Ophthalmology, <sup>2</sup>Dept. of Microbiology, Kasturba Medical College Hospital, MANIPAL-576104. Manipal University, Cunninghamella spinosum fungal corneal ulcer – first case report : *IJO*, Vol. 62 Issue 3, March 2014; ISSN 0301-4738, Page: 375-376
2. Anuja B.S.<sup>1</sup>, Elsa Sanatombi Devi<sup>2</sup>, Leena Sequira<sup>3</sup>, Lavanya G.Rao<sup>4</sup>& Vijaya Pai H.<sup>5</sup>, <sup>1</sup>M.sc.(N) Student, <sup>2,4,5</sup>Professors, <sup>3</sup>Assistant Professor, Dept.of Medical surgical Nursing, Manipal college of Nursing, <sup>4,5</sup>Kasturba Medical College, Manipal University, Manipal-576104 : Effectiveness of intraoperative hand holding on anxiety and physiological parameters among patients undergoing cataract surgery : *Nitte University Journal of Health Science (NUJHS)* Vol.4, No.2, June 2014, ISSN 2249-7110 , pg. 27-33
3. Krishna A Rao, Purkayastha Jayashree<sup>1</sup>, Hazarika Manali, Chaitra Raghuvamsi<sup>1</sup>, Adith K S Mithun:Dept. of Ophthalmology and Dept. of <sup>1</sup>Pediatrics, Kasturba Medical College Hospital, MANIPAL-576104. : Author’s Reply “ Analysis of prenatal and postnatal risk factors of retinopathy of prematurity inn tertiary care hospital in South India” *IJO*: Vol. 62, Issue 9, September 2014 ISSN 0301-4738, Page 972-973

**Books Published:**

Nil

**Chapters in a Book:** Nil

**12. Placement record of the past students and the contribution of the department to aid student placements:**

Nil

**13. Plan of action of the department for the next years:**

- Plan of action of the department is to help the college in implementing its strategic plan.
- Department also intends to set up a mobile eye unit in the near future to facilitate ophthalmic screening and treatment of rural population in and around this tertiary care centre
- To improve inter-departmental research projects.
- To motivate the faculty to attend and present papers in national/international conferences.
- To maintain the research activities and publication in national and international indexed journals.
- To conduct continuing medical education programmes on a regular basis

**1. Name of the Department: MEDICINE –KMC – Manipal.**

**2. Faculty profile\_ adequate and competency of faculty**

There are thirty nine teaching faculty which meets the requirements for MBBS and Dental and also for Post Graduate training as per the regulatory body requirements. All the faculties are well trained, efficient and competent.

Sl. No	Name	Qualification	Designation	Teaching experience in years
1	Dr H Manjunath Hande	MBBS, MD	Professor & Head	27
2	Dr Sudha Vidyasagar	MBBS, MD	Professor	29
3	Dr Shubha Seshadri	MBBS, MD	Professor	30
4	Dr B A Shastry	MBBS, MD	Professor	27
5	Dr Rama Bhat	MBBS, MD	Professor	22
6	Dr Raviraja V Acharya	MBBS, MD, DNB	Professor	20
7	Dr Shivashankar	MBBS, MD	Professor	18
8	Dr Mukhyprana Prabhu	MBBS, MD	Professor	16
9	Dr Kavitha Saravu	MBBS, MD	Addl. Prof.	15
10	Dr Vasudeva Acharya	MBBS, MD	Addl. Prof.	15
11	Dr .Jayaprakash B	MBBS, MD	Assoc. Prof.	13
12	Dr Muralidhar Varma	MBBS, MD	Assoc. Prof.	12
13	Dr Ragini Bekur	MBBS, MD	Assoc. Prof.	11
14	Dr Chandrashekar	MBBS, MD	Assoc. Prof.	9
15	Dr Weena Stanley	MBBS,MD,MRCP	Assoc. Prof.	7
16	Dr Ramamoorthy	MBBS,MD	Asst. Prof.	5
17	Dr Raghavendra Rao	MBBS,MD	Asst. Prof.	4
18	Dr Karthik Rao	MBBS,MD,DNB	Asst. Prof.	4
19	Dr Sanjay Singh	MBBS,MD	Asst. Prof.	4
20	Dr Ananth Shenoy	MBBS,MD	Asst. Prof.	4
21	Dr. Yajnes Kidiyoor	MBBS,MD	Asst. Prof.	4
22	Dr Ganesh Shetty	MBBS,MD	Senior Resident	2
23	Dr. Shipra Rai	MBBS,MD	Senior Resident	1
24	Dr. Sharath M	MBBS,MD	Senior Resident	1
25	Dr. Nithin Bhat	MBBS,MD	Senior Resident	1
26	Dr. Mohan V B	MBBS,MD	Senior Resident	1
27	Dr Shashidhar Reddy	MBBS,MD	Senior Resident	1
28	Dr. Sneha S	MBBS,MD	Senior Resident	1
29	Dr.Sanket Shah	MBBS,MD	Senior Resident	<01

30	Dr.Durgaprasad B	MBBS,MD	Senior Resident	<01
31	Dr Vamshidhar	MBBS,MD	Senior Resident	<01
32	Dr. Nikith A	MBBS,MD	Senior Resident	<01
33	Dr. Adarsha G K	MBBS,MD	Senior Resident	<01

Category	Sanctioned	Filled
Teaching staff	28	22
Senior Resident	15	12
Junior Resident	20	20

### 3. Student profile-entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure No. HS 1 for details

### 4. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes:

- The department has improved undergraduate Teaching in theory by incorporating MCQ solving in all theory classes.
- To give exposure to real world Medicine undergraduates are taken for rounds every day in the final year. We planned to start more practical training from 3<sup>rd</sup> semester itself in the coming years
- Faculty is taking classes with case based discussion to encourage problem solving skills.
- Faculty make one problem based question in the essay section,to simulate diagnosis in real life,.

### 5. Trends in the success and dropout rates of students during the past two years.

	PASS PERCENTAGE		DROPOUT RATE	
	2013-2014	2014-2015	2013-2014	2014-2015
MBBS	81	90	2	2
MD	93.33	95	0	0
BDS	88	87	0	0

### 6. Learning resources of the departments-library, computers, laboratories and other resources

Department has an air-conditioned library in Medicine OPD-B with about 400 books in the subject and super specialties for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus, Medicine faculty are provided rooms in OPD with facility of internet through landline as well as Wi-Fi enabled in some areas. In addition department also have 3 desktop computers with multifunctional printers.

The department has one air-conditioned classroom (Nalanda class room in MM3 ward) and 4 clinical demonstration rooms of varying capacity in OPD area. Department has access to 240 general ward beds located in 8 different wards for clinical teaching.

#### **7. Modern teaching methods practiced and use of ICT in teaching-learning**

- The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving and attitudinal domains. The department uses skills lab with state of the art maniquires to demonstrate various clinical signs related to cardiovascular and respiratory pathology. Additionally, we teach cardiopulmonary resuscitation skills to the students, including use of defibrillators.
- Students are exposed to problem based teaching in small group discussion, seminars. The students are made familiar with emergencies by direct postings in Casualty, class room bases discussion, ECG and x-rays and emergency drugs, instruments and procedures.
- The students are taken on grand rounds where they observe the senior faculty managing the ward patients on day to day basis and are given opportunity to pick up the art of communication, counseling the sick patients and the family, be compassionate which the basic requisition of a good doctor is.

#### **8. Participation of teachers in academic and personal counseling of students**

All the teachers are engaged in actively teaching both undergraduates and postgraduates. Every attempt is made to make topic interesting and students are encourage to clarify their doubts both during the lecture class and later. Faculty also encouraging students to do short projects during their undergraduate training. Slow learners are given special attention to overcome their learning difficulties by separate medical faculty. Every effort is made to provide them with additional opportunities for improvement by way of template answers, personalised tests and relevant explanations.

The postgraduate students carry out their ward work under the supervision of faculty members. All the postgraduates undertake their prescribed dissertation work under the guidance of their allotted guide and other research projects with the help of other faculties. Faculty also encourage both undergraduates and postgraduates to undertake ICMR Projects. Postgraduates and interns are encouraged to do minor

projects and present papers in national and international conferences. They are also guided by the faculty to publish the quality papers in indexed medical journals.

#### **9. Details of faculty development programmes and teachers who have benefited during the past two years.**

- Faculty attend Teaching-Learning workshop to improve teaching skills every year.
- Research Methodology workshop done during the NCD conference also helps faculty to improve research capabilities and publication skills.
- Our faculties regularly attend and present papers at national and international conferences. In the last 2 years 25 faculty members have attended National and International conferences.
- Our senior faculties are regular speakers at National and International conferences (around 50 papers were presented during last 2 years).

#### **10. Participation/contribution of teachers to the academic activities including teaching, consultancy and research.**

All the faculties are involved in teaching UG and PG students actively involved in taking lectures, seminars, case discussions etc. All of them participated in CME, updates, workshops and attend National/International conferences; Research activity in the form of guiding dissertation projects for post graduates; publishing papers. Department was successful on receiving ICMR sponsored research grants in the past year. 6 faculty members are also guiding Ph D students.

#### **11. Collaboration with other departments/institutions, at the State, National and International levels, and their outcome during the past two years**

- Several of the Senior faculty in Medicine department are guiding thesis for Ph.D students in departments of Pharmacology, Pharmacy practice, Physiotherapy, Lab. Medicine and microbiology and Nursing.
- Several of these theses have been published encouraging research output.
- National: The Medicine department collaborates with Dr. Mohan's Diabetes Centre in Chennai, which is a WHO recognized centre for research in Diabetes. We are involved in a ICMR project on young diabetes registry along with several other national centers.
- International: The Medicine department is in collaboration with Florida International University and University of Alabama for Non-communicable Disease research work. Conferences and research projects are being done with these universities on a yearly basis.

## 12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Currently faculty are involved in research related to infectious diseases, geriatrics, metabolic disorders and Diabetes mellitus.

### Ongoing

Category	Number
Funded Research Project	3
Non Funded Research Project	4
PhD Research Project	9
PG Research Project	55
UG Research Project	2

### Last 3 years (2012 - 2014)

		2014	2013	2012
Completed Funded Research Project		1	1	2
Completed Non - Funded Research Project		2	0	2
Completed PhD Research Project		2	2	4
Completed PG Research Project		19	18	15
Completed UG Research Project		1	1	1
Publications	International	50	44	32
	National	0	0	11
Books		1	1	1
Chapter in Books		2	4	1
Conference Presentation	International	0	0	0
	National	33	54	47

### Journal Publications

#### International Indexed-2012

1. Kushal Naha, Ramamoorthi, Mukhyaprana Prabhu : Spontaneous septicaemia with multi organ dysfunction a new Pantoe agglomerans ? : Asian Pacific Journal of Tropical Medicine 2012,
2. Suman S Karanth, Hariharan Regunath, Kiran Chawla, Mukhyaprana Prabhu : A rare case of community acquired Burkholderia cepacia infection presenting as pyopneumothorax in an immunocompetent individual Asian Pacific Journal of Tropical Biomedicine (2012)166-168 accepted to be published in Feb 2012
3. Kushal Naha, G Vivek, Sowjanya Dasari, Mukhyaprana Prabhu “ Ketosis-prone type 2 diabetes mellitus in a patient with Sheehan’s syndrome: a rare



- convergence of two distinct endocrine entities.” Case report BMJ 2012, doi.10.1136/bcr.11.2111.5131
4. Kushal Naha, G Vivek, Sowjanya Dasari, M Manthappa, Lorraine Dias , Raviraja Acharya : An unusual cause for hyponatremia with seizures BMJ case reports 2012: doi:10.1136/bcr.09.2011.4784
  5. Kushal Naha, Sayali Thakare, G Vivek, Mukhyaprana Prabhu : Adenocarcinoma of lung masquerading as systemic auto immune disease, BMJ Case reports 2012, doi.10.1136/bcr.02.2012.5822
  6. Kushal Naha, Suman Karanth , Mukhyaprana Prabhu, Manpreet Singh Sidhu : Dual infection with hepatitis A & E virus presenting with aseptic meningitis: A case report: Asian Pacific Journal of Tropical Medicine. Doi: 19.1016/S 1995-7645 (12) 60104-7www.elsevier.com/locate.apjtm
  7. Radhakrishnan Rajesh, Sudha Vidyasagar, Danturulu Muralidhar Varma, Shreekant Sharma “ Design and evaluation of pictograms for communicating information about adverse drug reactions to anti retroviral therapy in Indian Human immunodeficiency virus positive patients”, Journal of Pharmaceutical and Biomedical Sciences ( JPBMS ) Vol 16, issue 16, 2012.
  8. UK Chandrashekar, Vasudeva Acharya, George K Varghese, Lakshmi Rao.An unusual presentation of pulmonary cryptococcosis with co-existing disseminated tuberculosis in an AIDS patient. Tropical Doctor 2012;42:60-62
  9. Saravu Kavitha, Vasudeva Acharya, Krishna Kumar, Rishikesh Kumar. Plasmodium vivax remains responsive to chloroquine with primaquine treatment regimen: a prospective cohort study from tertiary care teaching hospital in southern India. Tropical Doctor 2012: 1-2
  10. Amitnarayan Gupta ,Shivashankara KN.Schmidt’s syndrome – case report. Australian medical journal.vol 5 ,no 6 .2012
  11. Kushal Naha, Sowjanya Dasari, Vinay Pandit, Shubha Seshadri, “ A rare case of seronegative culture-proven infection with Brucella suis” Australian Medical Journal (AMJ 5,7,340-343, 2012)
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44. PassangChiki Sherpa, JyothiChakrabarty, Prima JJ D'Souza, Muralidhar Varma. Knowledge of Critical Care Provider on Prevention of Ventilator Associated Pneumonia. JKIMSU 2014 ;Vol. 3Jan-June :80-4
45. JandhyalaSuryanarayana, Muralidhar Varma, SudhaVidyasagar, GanapathiramanVivek. Difficult to wean: think of the diaphragm – case reportBMJ Case Rep 2014.
46. Radhakrishnan Rajesh, SudhaVidyasagar, Danturulu Muralidhar Varma, VasudevaGuddattu, NarenRamanlal Patel, Manju Varghese, oornimaPulagamEvaluating the effects of combinationantiretroviral therapy regimens and the development of adverse drug reactions in Indian human immunodeficiency virus positive patients.Saudi J HealthSci2014;3: 107-117.
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49. Comparison of Directly Observed Treatment Short Course (DOTS) with Self-Administered Therapy in Pulmonary Tuberculosis in Udupi District of Southern India. J Clin Diagn Res 2014 Aug 20;8(8):HC29-31. Epub 2014 Aug 20. Amrita Parida, K L Bairy, Bharti Chogtu, Rahul Magazine, Sudha Vidyasagar
50. Hypersensitivity Reaction Associated with Abacavir Therapy in an Indian HIV Patient - A Case Report. J Clin Diagn Res 2014 Sep 20;8(9):HD01-2. Epub 2014 Sep 20.Manju Janardhanan, Mohan Babu Amberkar V, Sudha Vidyasagar, Meena Kumari K, Sadhana N Holla

### Postgraduate Thesis / PhD Thesis

Postgraduate Thesis year 2012 April

1. Srinivas Kosuru - Study of clinical profile.
2. Preethi V - Determinants and impact of ventilator associated pneumonia
3. Faisal Hasan - A clinical study of subacute and chronic meningitis with special reference to cryptococcal meningitis
4. Amit Goel - Procalcitonin in sepsis.
5. Sowjanya Dasari - Association of microalbuminuria with IHD in Non diabetics.
6. B V N Avianash - A clinical study of upper gastrointestinal haemorrhage in a tertiary care hospital .
7. Mary Anne P - A clinical profile of plasmodium falciparum Malaria.

8. Dushyant Babu - A clinical study of enteric fever in hospitalized patients in Kasturba Hospital Manipal.
9. Ranjit K R - Cardiovascular risk factors in re hypertension.
10. Tejo Krishna - Ischaemic Heart disease in diabetic nephropathy.
11. Juman Hussain - Eosinopenia as a diagnostic and prognostic marker in Sepsis.
12. Dilip Kumar S - Clinical profile of Empyema.
13. Vishnu ABhishek R - Clinical profile of CKD in elderly.
14. Rajeevalochana - Clinical profile outcome indicators and evaluation of scoring systems in patients on mechanical ventilation in medical ICUs.

### Year 2012, October

1. Riffat Abdul Aziz - Clinical profile of diabetic keotacidosis with special emphasis on Ketosis prone type 2 diabetes mellitus.

### Research Projects

1. Investigator- Dr Kavitha Saravu  
 Title :Understanding the epidemiology of antimalarial drug resistance in plamodium vivax & elucidation of resistance deterministic host factors for antimalarial drugs.  
 Location: Kasturba Medical College, manipal  
 Funding Agency- ICMR, New Delhi  
 Period of research: 3 years ( 2011-2014)  
 Amount of research grant 60 Lakhs
2. Investigator: : Dr Raviraja V Acharya  
 Project title: HEALTH DEVICE PROTOTYPE DEVELOPMENT  
 Location: Kasturba Medical College, Manipal  
 Funding agency: Intel India  
 Period of research: 1 year  
 Amount of research grant: Rs. 9,00,000/-



**Postgraduate Thesis / PhD Thesis-2013**
**Postgraduate Thesis: April 2013**

Sl.No.	Name	Thesis Teacher	Topic
1	Surya Narayana Jandhyala	Dr N R Rau	Type 2 Diabetes Meelitus at detection
2	Ravi Daswani	Dr Jayaprakash	A study of hypothyroidism in coronary artery disease
3	Gadepalli Amulya	Dr Shubha	Clinical profile of venous thrombosis
4	Dr.Mounika	Dr Shubha	Clinical utility of renal biopsies in tertiary care
5	Raja Ramesh N	Dr Vinay R Pandit	Clinical profile idiopathic thrombocytopenic purpura
6	Sneha S	Dr Sudha Vidyasagar	Clinical & biochemical profile of patients with low HDL
7	Srikanth	Dr Muralidhar Varma	Candidiasis with cardial sepsis
8	Megha Pai	Dr Ragini Bekur	Clinical profile of TB in HIV
9	Aparjita Chatterjee	Dr B A Shastry	Clinical & microbiology profile of MRSA infection in predictors of outcome
10	Sandeep Rao	Dr Kavitha S	Clinical profile of leptospirosis
11	Sai Madhuri Bioppana	Dr H M Hande	Hyperkalemia in elderly, cause and outcome
12	Sudhakar Rao	Dr Vasudeva Acharya	Clinical profile of COPD
13	Tarun Sebastian Joseph	Dr Rama Bhat	Prognostic significance of ST elevation in a VR lead in NSTEMI acute coronary syndromes
14	Ravi Shankar	Dr Siddalinga Gouda	Clinical profile of Rheumatoid Arthritis
15	A Obul Reddy	Dr Raviraja Acharya	Clinical and biochemical profile of diabetes mellitus in female
16	Krishna Kumar	Dr Manthappa	Sensitivity and specificity of ADA & TB PCR in extra pulmonary tuberculosis
17	Sindhu Kaza	Dr Shivashankar	NAFLD and its correlation with coronary risk factor in



			patients with Type 2 DM(CIMT)
18	Sai Divya	Dr Chandrashekar	Study on bacterial infections in adult cirrhotic patients.

Postgraduate Thesis : October 2013

**Research Projects: 2013**

**Grants: 2013-2014 Dr Raviraja V Acharya as PI**

1. Health Device development project - Rs. 8,40,00/-
2. Development of Mobile ECG system Phase 2 - 13,00, 000/-

**Extramural projects undertaken and funding agency**

Principal Investigator for a three years (2012 - 2015) project entitled “Understanding the Epidemiology of Antimalarial Drug Resistance in Plasmodium vivax and Elucidation of Resistance Deterministic Host Factors for Antimalarial Drugs”, sanctioned by ICMR New Delhi – 110029. AMR/46/2011-ECD-I

National Indexed:

**Postgraduate Thesis / PhD Thesis-2014**

Postgraduate Thesis: April 2014

Name	Name of the PG Teacher	Thesis Topics
Dr .Khan Zohaid Abdul Wadood	Dr. Sudha Vidyasagar	Impaired fasting glucose tolerance
Dr. Sri Ramuluk	Dr.N R Rau	Estimation of coagulant parameters in Fasting and post prandial state and comparison in Diaabetes health controls
Dr. Sravan Kumar Peravali	Dr. Muralidar Varma	Risk factors for Bacteremia in UTI
Dr. Durga Prasad Bhimineni	Dr. B.A Shastry	Haematological maniestations in HIV
Dr. V Veena	Dr Rama Bhat	Study on Vitamin D deficiency in correlation with insulin resistance in Type 2 diabetes
Dr. Alekhya Thummuluri	Dr Raviraja V Acharya	Association of H Pylori with Vit B12 deficiency

Dr. Favazali M	Dr H Manjunath Hande	Drug resistance in pulmonary tuberculosis in our hospital setup
Dr. M Krishna Chaitanya	Dr Jayaprakash B	Descriptive study of symptomatic hyponatremia in ICU patients
Dr. K Neeraja	Dr.Shivashankar	Association between thyroid disease and metabolic syndrome
Dr. Shah Sanket Ishearbhai	Dr Mukhyaprana Prabhu	Study of Vit D levels in COPD patients and its correlation with acute exacerbation
Dr. Anup Velaga	Dr Shubha Seshadri	Thyroid dysfunction in diabetes mellitus
Dr .M Harika	Dr.Manjunatha Hande H	Clinical profile of paraquat poisoning
Dr. Babynagapriya Vellalacheruvu	Dr.Ragini bekur	Comparison of clinical profile of TB in diabetics and non diabetics
Dr .Naresh Kumar M	Dr SudhaVidyasagar	Hypolipidemia a prognostic marker of sepsis in patients admitted to Icu
Dr. Murali Nalabotu	Dr Manthappa M/ Lorraine *	Clinical profile and outcome of Rodenticide poisoning
Dr. Varun Reddy Gundluru	Dr Vasudeva Acharya	Bacteremia due to ESBL producing organisms, study of risk factors and outcome
Dr. Keerthireddy Gopu	Dr.Chandrashekar	The clinical spectrum of neurological manifestations in HIV/AIDS patients and its correlation to CD4 count
Dr. Vamsidar P	Dr Siddalinga Gouda	Clinical profile of Intermediate Syndrome in OP poisoning.
Dr .Prasanna S	Dr.Kavitha Saravu	AKI in malaria.

**Research Projects: 2014****Details of Research Grants:**

Sr. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)
1	Health Device development project	Dr Raviraja V Acharya		Rs. 8,40,00/-
2	Development of Mobile ECG system Phase 2	Dr. Raviraja V Acharya	ICMR	Rs. 13,00, 000/-
3.	Understanding the Epidemiology of Antimalarial Drug Resistance in Plasmodium vivax and Elucidation of Deterministic Host Factors for Antimalarial Drugs”	Dr. Kavitha Saravu		

**12. Placement record of the past students and the contribution of the department to aid student placements.**

Not Applicable

**13. Plan of action of the department for the next five years****UNDERGRADUATE:**

- Integration of curriculum with other departments such as pharmacy, Pathology, microbiology is being undertaken on a regular basis to make learning more comprehensive.
- Student feedback about teaching programs will be comprehensive in the coming years.
- Involvement of student in CMEs, will be encouraged to give exposure to state of the art Medicine.
- Students are bring encouraged to do Research with small projects. We aim to encourage student publish at least one Research paper before final term.
- Interdepartmental projects are being done to attract external funding from National and International organizations.
- All faculty at Junior and middle level will be encouraged to opt for training in specific areas.

- Collaboration in Non communicable Research and Research Methodology is being promoted by NCD conference every year in collaboration with Florida International university and University of Alabama , USA.
- Postgraduates are encouraged to publish two papers before completing their course as per MCI norms.

### Finally

- **Inculcate departmental culture of:** Responsibility, measurable Output, Ability to get over blocks, Dependability and dedication by each faculty (ROAD)
- **To make teaching:** Student centric, Active learning, Generate interest and –fair, credible and error free Evaluation (SAGE)
- **To provide medical services:** Quick, Meeting the national and international standards and Responsive to institutional needs. (QMR)
- **To indulge in research activities:** Ethical, need based, publishable and publish in national and international indexed journals.

## SURGERY

### 1. Faculty profile- adequacy and competency of faculty

There are thirty two teaching faculty which meets the requirements for MBBS and Dental and also for post graduate training as per the regulatory body requirements. All the faculties are well trained, efficient and competent.

#### Faculty List

Sl.No	Name	Qualification	Designation	Teaching Experience in years
1	Dr. L Ramachandra	MBBS, MS	Professor & Head	25
2	Dr. B.H.AnandRao	MBBS, MS	Professor	36
3	Dr. P. Sampath Kumar	MBBS,MS	Professor	30
4	Dr. K RajgopalShenoy	MBBS,MS	Professor	27
5	Dr.AnnappaKudva	MBBS, MS	Professor	20
6	Dr. Stanley Mathew	MBBS,MS	Professor	15
7	Dr. Gabriel Rodrigues	MBBS, MS	Professor	
8	Dr. Prasad S S	MBBS MS, DNB	Professor	8
9	Dr. Chethan K	MBBS, MS	Assoc. Prof.	8
10	Dr. Dinesh B V	MBBS, MS	Assoc. Prof.	7
11	Dr.Veena L Karanth	MBBS, MS	Assoc. Prof.	4
12	Dr.Nawin Kumar	MBBS, MS	Assoc. Prof.	3
13	Dr.Badareesh L	MBBS, MS	Asst. Prof.	2
14	Dr.PrashanthTubachi	MBBS, MS	Asst. Prof.	2
15	Dr.DeviprasadShetty	MBBS, MS	Asst. Prof.	2
16	Dr. Sunil Krishna	MBBS, MS	Asst. Prof.	< 01
17	Dr. Anand H	MBBS, MS	Asst. Prof.	< 01
18	Dr. Digvijay Sharma	MBBS, MS	Asst. Prof.	< 01
19	Dr. Odaiyappan K	MBBS, MS	Asst. Prof.	< 01
20	Dr. SharathHonnani	MBBS, MS	Asst. Prof.	< 01
21	Dr. VineetMannan	MBBS, MS	Senior Resident	-
22	Dr. BenakattiRajendra	MBBS, MS	Senior Resident	-
23	Dr. Bharath M S	MBBS, MS	Senior Resident	-
24	Dr. Jegan Mohan	MBBS, MS	Senior Resident	-
25	Dr. KalpanaVineet	MBBS, MS	Senior Resident	-
26	Dr. Pratik Raval	MBBS, MS	Senior Resident	-

27	Dr. Avinash Odugoudar	MBBS, MS	Senior Resident	-
28	Dr. Varun Laddha	MBBS, MS	Senior Resident	-
29	Dr. Afroz Khan	MBBS, MS	Senior Resident	-
30	Dr. Chethan Kulkarni	MBBS, MS	Senior Resident	-
31	Dr. Kapil Tejaswy	MBBS, MS	Senior Resident	-
32	Dr. Kshama S Hegde	MBBS, MS	Senior Resident	-
33	Dr. Manas Sharma	MBBS	Junior Resident	-
34	Dr. Aniket Dave	MBBS	Junior Resident	-
35	Dr. Ankita Harijee	MBBS	Junior Resident	-
36	Dr. Vinay Bhardwaj	MBBS	Junior Resident	-
37	Dr. Niranj K	MBBS	Junior Resident	-
38	Dr. Nagesh Biradar	MBBS	Junior Resident	-
39	Dr. Alluri Vamsi Krishna	MBBS	Junior Resident	-
40	Dr. Mohan Amaresh	MBBS	Junior Resident	-
41	Dr. Srujan S	MBBS	Junior Resident	-
42	Dr. Srilekha Reddy	MBBS	Junior Resident	-
43	Dr. Madhusudhan Reddy	MBBS	Junior Resident	-
44	Dr. Lella Naveen	MBBS	Junior Resident	-
45	Dr. Deepti Pai	MBBS	Junior Resident	-
46	Dr. Satya Vijay	MBBS	Junior Resident	-
47	Dr. Balaji J	MBBS	Junior Resident	-
48	Dr. Vivekananda	MBBS	Junior Resident	-
49	Dr. Akhilesh	MBBS	Junior Resident	-
50	Dr. A Naveen	MBBS	Junior Resident	-
51	Dr. Amena Khan	MBBS	Junior Resident	-
52	Dr. Ranjani R	MBBS	Junior Resident	-
53	Dr. Muqqurab Ali Khan S	MBBS	Junior Resident	-
54	Dr. V Venkatesh	MBBS	Junior Resident	-
55	Dr. V Ravikiran	MBBS	Junior Resident	-

Category	Sanctioned	Filled
Teaching Staff	21	20
Senior Residents	15	12
Junior Residents	20	23

- There are additional 04 junior residents working in the department

## 2. Student Profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer annexure no. HS 1 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 curriculum has been revised to meet the stipulations by MCI. Emphasis is made to train the students on problem oriented teaching. The faculty are adapting to this.
- Multiple choice questions have been introduced to undergraduates
- More emphases on problem based learning has been introduced in the classes.

## 4. Trends in the success and dropout rates of students during the past two years

Courses	Pass Percentage		Dropout Percentage	
	2012-2013	2013-2014	2012-2013	2013-2014
MBBS	91.63%	94.46%	8.37%	5.53%
M.S	57.14%	100%	42.85%	0%
BDS	91%	97%	9%	3%

## 5. Learning resources of the departments – library, computers and other resources

The Department of Surgery supports the university's educational mission by providing a broad spectrum of learning resources and services to students within the department. Faculty members are encouraged to become familiar with the services, policies, and procedures of the University's Library. The Manipal Edu Library is the main library and performs central services such as ordering of materials, cataloging and faculty reserves. The library provides a number of services of special interest to faculty. These services include: the ordering of specific library materials, information literacy instruction, research resources, and general reference services. Our surgical department is proud to have a departmental library with books covering all aspects of surgery. It boasts to have 105 books, 10 journals for the overall development of a surgeon. It has a state of the art, fully air conditioned classroom for postgraduate teaching called the Mayo Hall, named after the famous surgeon Dr William Mayo with a seating capacity of 30. Postgraduate clinical teaching is conducted on a daily basis with special emphasis on eliciting history, basic investigations and treatment protocols.

Each of the faculty is provided with a Laptop for teaching and research purpose. All the surgical wards and the operating rooms have a desktop with round the clock broadband internet facility. The faculty and the postgraduates can access the internet for research purpose. All the imaging and blood investigation reports can be accessed with the turn of a click.



## 6. Modern teaching methods practiced and use of ICT in teaching – learning

ICTs provide an array of powerful tools that may help in transforming the present isolated teacher centre and text bound classrooms into rich, student focused, interactive knowledge environment. In this regard we demonstrate the undergraduate students key clinical skills using computers with LCD projectors. Operative videos with an emphasis on important anatomical structures and techniques are shown to the students, supervised by a faculty to clear all their doubts and aspersions. Two Lapro-trainers are available for training postgraduate students in minimal access surgical skills. A curriculum has been formulated by the faculty keeping in mind the surgical capabilities of the postgraduates. Students are also given basic and advanced life support training in the sophisticated skills laboratory, Manipal University.

## 7. Participation of teachers in academic and personal counseling of students

An essential obligation of the academic staff is to counsel students not only in relation to their academic program but also concerning their professional standards and goals and their general welfare. Such a relationship between teacher and student is an integral part of the educational process. In this sense, all members of the Faculty become advisors and counselors to each of their students. However, to give a certain degree of formal structure to this advising and to provide a means by which registration procedures may be carried out, each student is assigned to an advisor who participates in one or more of the formal advisory programs.

Student involvement in student activities is an integral part of the department's educational experience. Such activities provide learning opportunities not normally found in the classroom, enrich and broaden the individual, and, perhaps most importantly, allow a student to enjoy a change of pace and find enjoyment in the development of personal interests that are not strictly academic in nature. Faculty members are encouraged to associate with students in non-academic activities in order to share with students their knowledge and breadth of experience. Such associations may be through informal interactions or in more structured roles as advisors, associates, or affiliates of specific student activities or living groups. Through such associations, faculty can convey to students the qualities and attitudes that are necessary for leadership.

In this regard the faculty of department of Surgery along with other surgical departments from within and outside KMC, Manipal have formulated a student faculty interactive club called the CUTTING EDGE. In this club the students are taught about the suturing techniques, knotting, disinfection, operating room attire and overall personal development. Surgical quiz is conducted on a regular basis to tinker the young minds.

### 8. Details of faculty development programmes and teachers who have been benefited during the past two years.

10 faculty members have attended faculty development programmes pertaining to teaching-learning and evaluation in the past two years

All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 40-50 such programmes.

#### Year – 2012

Sl.No	Title of Workshop	Name of faculty	Details
1	8 <sup>th</sup> Annual Live Surgery Demonstration course ONCOSURG 2012	Dr. AnnappaKudva Dr. Badareesh L Dr. Odaiyappan	Held on 23 <sup>rd</sup> to 25 <sup>th</sup> Nov 2012 at TATA Memorial Hospital, Mumbai

#### Year – 2013

Sl No.	Title of Workshop	Name of faculty	Details
1	Pre – Congress hands on Surgical Oncology Workshop “5 <sup>th</sup> BGICC”	Dr. Annappa Kudva	Held on 17 <sup>th</sup> January 2013 at Egypt
2	International Congress of Hepatobiliary & pancreatic Surgery	Dr. L Ramachandra	Held on 14 <sup>th</sup> to 17 <sup>th</sup> Feb 2013 at Coimbatore.
3	Pre Congress hands on Workshop “Endoscopy 2013”	Dr. Digvijay Sharma Dr. VeenaKaranth	Held from 12 <sup>th</sup> to 14 <sup>th</sup> April 2013 at Malaysia
4	J S S Workshop	Dr. K Rajgopal Shenoy Dr. Prasad S S	Held from 26 <sup>th</sup> to 27 <sup>th</sup> April 2013 at Mysore
5	Comprehensive Laparoscopic Workshop	Dr. PrashantTubachi	Held from 9 <sup>th</sup> to 13 <sup>th</sup> May 2013 at Mumbai
6	International Live Workshop on Minimally Invasive Colorectal Surgery	Dr. L Ramachandra Dr. K RajgopalShenoy	Held from 24 <sup>th</sup> to 26 <sup>th</sup> May 2013 at Coimbatore
7	Laparoscopic Workshop	Dr. K RajgopalShenoy	Held on May 2013 at Coimbatore

**Year – 2014**

SI No.	Title of Workshop	Name of faculty	Details
1.	Breast Master Class & Oncoplastic surgery	Dr. Veena Karanth	Held on Feb 2014 at Pune
2.	Pre-conference Workshop ASICON 2014	Dr. L Ramachandra Dr. K Rajgopal Shenoy Dr. Prasad S S	Held at Mysore
3	Comprehensive Laparoscopic Surgery Workshop	Dr. Vineet Mannan	Jan 2014 CEMAST
4	Upper GI Endoscopy Workshop	Dr. Vineet Mannan	Feb 2014 CEMAST

Department of Surgery regularly organize Guest lectures by eminent surgeons of National and International fame

SI No.	Title of Guest Lecture	Name of faculty	Details
1.	Pancreatic Resections	Dr P Jagannath, Chief of Surgery, Lilavathi Hospital, Mumbai	2012
2.	Hepatocellular Carcinoma	Dr. Surendra Shenoy, USA	2013
3.	Vascular Anastomosis	Dr. Pandey, Antigua	2014
4.	Traumatic Limb Injuries & Reconstruction	Dr. Hari Venkat Ramani	2014

### **9. Participation/ contribution of teachers to the academic activities including teaching, Consultancy and research**

All the PG teachers are involved in guiding the PG students in conducting research as a part of their PG training requirement. Both the UG & PG students maintain log books which are monitored by the teachers.

### **10. Collaboration with other departments/institutions, at the state, National and international levels, and their outcome during the past three years.**

#### **Gabriel Rodrigues– Past**

1. Prospective surveillance study on antimicrobial susceptibility pattern in diabetic foot ulcer patients in a south Indian tertiary care hospital.
2. Prevalence of Enterococci species in diabetic foot ulcers and their role in the enhancement of bio film formation.

3. Study on antibiotic usage pattern in surgical patients and introduction of antibiotics guidelines in General Surgery department of a tertiary care teaching hospital.
4. Detection of Clostridium difficile from patients with antibiotic associated diarrhoea in a tertiary care hospital in south India.
5. Comparison of selected plasma minerals (Zn, Fe<sup>2+</sup>, Cu, Ca and Mg<sup>2+</sup>) in pre and post-operative colon cancer patients.
6. Study on development and implementation of adverse event trigger tool system for surgery department of a tertiary care hospital (PhD).

#### Dr. L. Ramachandra

1. Genetic analysis of breast cancer – on going study with Manipal Life Sciences. The Genomics in the bacterial analysis of diabetic wounds with Manipal Life Sciences and Queensland University, Brisbane, Australia.
2. Evaluation of Thermography for breast cancer screening - on going study funded by Xerox Limited Webster USA25,000US\$

#### Dr. RajgopalShenoy

1. “Diabetic Foot Ulcers” – ongoing association with the Department of Pharmacology. Research grant of Rs. 10Lakhs by Apex Laboratory, Chennai  
Principal Investigator – Dr K L Bairy Co- Principal Investigator – Dr. RajgopalShenoy

### 11. Priority areas for research and details of the ongoing projects, important and noteworthy publications of the faculty, during past three years.

#### Ongoing

Category	Number
Funded research projects	2
Non Funded research projects	0
PhD research projects	0
PG research projects	24
Under graduate research projects	0

#### Last 3 years (2012-2014)

	2012	2013	2014
Completed Funded research projects	0	0	0
Non Funded research projects	0	0	0
Completed PhD Research projects	0	0	0
PG research projects	8	8	8

Under graduate research projects		0	0	0
Publications	International	11	27	29
	National	3	2	3
Books		1	0	2
Chapters in Books		0	0	0
Conference Presentations	International	2	0	0
	National	15	10	4

**The details of publications are described below.**

**Year - 2012**

**International:**

1. Rodrigues G, Jayasundera M, Prabhu R. Intracranial Cystic Metastases from Breast Cancer. The Eurasian Journal of Medicine 2012; 44:60.IMPACT FACTOR: 1.5
2. Rao L, Monappa V, Rodrigues G, Suresh B P. Ewing's Sarcoma of the lesser sac Masquerading as a Pancreatic Tumor. The Korean Association of Internal Medicine Vol. 27, No. 1, March 2012.IMPACT FACTOR: 0.623
3. Parameshwarappa S B, SampatKumr P. Non-Recurrent Laryngeal Nerve during Thyroid Surgery. Webmed Central Surgery 2012;3(1):WMC002915. IMPACT FACTOR: NOT KNOWN
4. Sisodiya R, Shenoy R, Gupta A, Yoonus F. Adult Jejunojunal intussusception – submucosalhamartomatous polyp as a lead point. International Journal of Medicine and Medical Sciences. April 2012. Vol 2 (4): 086-087.IMPACT FACTOR: 3.228
5. Rodrigues G, Carnelio S, Rao L. Intraoral lipoma masquerading as a minor salivary gland tumour. Surgical Chronicles 2012; 17(3):217-218. IMPACT FACTOR: NOT KNOWN
6. Jagdale R, Agrawal S, Chhabra S, Jewan S. Hydrocele of the Canal of Nuck: Value of Radiological Diagnosis. Journal of Radiology case reports 2012 June;6(6):18-22. IMPACT FACTOR: NOT KNOWN
7. Nair R, Agrawal S. Baro Traumatic Oesophageal Rupture. Malaysian Journal of Medical Sciences 2012.IMPACT FACTOR: 0.040.
8. Sarma D, Prabhu R, Rodrigues G. Adult intussusception: a six-year experience at a single center. Annals of Gastroenterology (2012) 25, 128-132. IMPACT FACTOR: NOT KNOWN
9. K Chethan, S Prasad, L Ramachandra. Ileocolicmucormycosis – an unusual cause of a mass in the right iliac fossa. Can J infect Dis Med Microbiol 2012;23(3):e35-66. IMPACT FACTOR: NOT KNOWN

10. Kaur G, Cornelio S, Rodrigues G. An unusual case of oral leiomyoma mimicking a gingival eplulis. RSBO (South Brazilian Dental Journal). 2012; 9(2); 204-6. IMPACT FACTOR: NOT KNOWN
11. Parmeshwarappa S B, Rao B H A. Fungal Osteomyelitis involving the great toe. Webmed Central Surgery 2012;3(1):WMC002907. IMPACT FACTOR: NOT KNOWN

#### **National:**

1. Prasad S, Ramachandra L, Agrawal S, Sharma D. Successful management of pleural lipoma a by video-assisted thoracoscopic surgery. Journal of Minimal Access Surgery. 2012 Jan-Mar; 8(1):19-20.IMPACT FACTOR: NOT KNOWN
2. Shenoy R, Pai S, Singh H. Primary MesentricFibromatosis: A case report with brief review of literature. Indian Journal of Surgery. 2012. DOI: 10.1007/s12262-012-0515-7. IMPACT FACTOR: 0.08
3. Shenoy R, Agarwal N, Goneppanavar, Shenoy A, Sharma A. Symmetrical Peripheral Gangrene – A case report and brief review. Indian Journal of Surgery 2012. DOI10.1007/s12262-012-0576-7. IMPACT FACTOR: 0.08

#### **Year - 2013**

##### **International:**

1. Singh P, Francis A, Singh R, Tamang R, Raja R, Lingadakai R. Strong Impact of TGI-β1 Gene Polymorphisms on Breast Cancer Risk in Indian Women: A case-control and population-Based study. PLOS 2013 October, Vol-8 (10).
2. Karanth V, Lingadakai R. Pseudo Acute renal failure due to delayed presentation of intra-peritoneal bladder injury following blunt abdominal trauma. Webmed Central TRAUMA 2013;4(5):WMC004251.
3. Joshi M, Lad A, Lingadakai R. High glucose modulates IL-6 mediated immune homeostasis through impeding neutrophil extracellular trap formation. FEBS Lett.2013.
4. Dr. Rajesh P Nair “Spontaneous resolution of emphysematous gastritis with vaso-occlusive disease- a case report”, Jan 2013 – Malaysian Journal of Medical Sciences- International index
5. Dr. Prashanth Shetty, Dr. Karthikeyan S “ Outcome of Surgery for thyroid Diseases”, Jan 2013 – Webmed Central Endocrine Surgery 2013, 4(1)WMC003932 – International index
6. Dr. BhavnaNayal, Dr. Mary Mathew, Dr. Pramod Kumar, Dr. Rajesh P Nair “Mucinous naevus: A Rare variant of connective tissue naevus” – Jan 2013 -Journal InterdisciplHistopathol – International index

7. Dr. RanjiniKudva, Dr. AnnappaKudva. “Cystic Lymphangioma of Mesentery – A Case Report” – April 2013 – International Journal of Scientific and Research Publications, Vol 3, Issue 4.
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10. Patil B, Kumar S, Suresh B P. Obstructive Secondary to Primary Duodenal Lymphoma with CMV Duodenitis causing upper GI bleed in retro-positive patient: A case report. Indian J Surg 2013;75(1):68-70.
11. Rodrigues G, Prabhu R, Bharadwaj R. Small bowel carcinoid: a rare cause of bowel obstruction. BMJ Case Rep 2013.
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13. Sisodiya R, Lingadakai R. Tubercular duodenal, Jejunal and ileocecal stricture in a patient. BMJ Case Rep 2013.
14. S. Rajesh, Kumar S, Maheshwari G. Malrotation of small bowel – Diagnostic computed tomography (CT) signs and intraoperative findings. Indian Journal of Surgery. 2013
15. Naveen K, Sareesh N N, Satheesha B N, Murlimanju B V, Sampath PK. Appendicitis and Appendectomy: A Retrospective survey in south Indian population. Journal of Surgical Academia 2013;3(2):10-13.
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18. Rodrigues G, Ravi C, Prabhu R. Fast-Track surgery: A new concept of perioperative management of surgical patients. Journal of Health Specialities 2013;1(3).
19. Shenoy R, Prabhu R. Primary perineal hernia: a differential diagnosis for Bartholin’s cyst in women. Royal Australasian College of Surgeons 2013.
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21. Prabhu R, Natarajan A, Krishna S, Thangavelu S. Portal pyaemia secondary to open haemorrhoidectomy: need for prophylactic broad spectrum antibiotics. BMJ case Rep 2013.



22. Prabhu R, Rodrigues G, Sarma Y, Benakatti R. Non-pancreatic retroperitoneal pseudocyst: a benign disease with non-specific symptoms. *BMJ case Rep* 2013.
23. Prabhu R, Natarajan A, Shenoy R, Vaidya K. Aggressive fibromatosis (desmoidtumour) of the head and neck: a benign neoplasm with high recurrence. *BMJ case Rep* 2013.
24. Parmeshwarappa S, Rao BH. A retrorectal tumor: Presacralchordoma. *Journal of the scientific society.* 2013;40(3): 186-188.
25. Malali B, Nair R, Shetty P. Displaced MousseauBarbin tube: A rare cause of dysphasia *The Eurasian Journal of Medicine* 2013.
26. Dinesh B V, Selvaraju K, Kumar S. Cytomegalovirus-induced colonic stricture presenting as acute intestinal obstruction in an immunocompetent adult. *BMJ case Rep* 2013.
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#### **National:**

1. Nayal B, Rao L, Rao A, Sharma S, Shenoy KR. Extragenital Aggressive Angiomyxoma of the Axilla and the Chest Wall. *Journal of Clinical and Diagnostic Research* 2013 April, Vol-7(4):718-720. IMPACT FACTOR: 0.14.
2. Prabhu R, Kumar N, Sadhu S, Shenoy R. Fibrosarcomatousdermatofibrosarcomaprotuberans: A case report of an aggressive soft tissue sarcoma. *Journal of Clinical & Experimental research* 2013;1(3).

#### **Year - 2014**

##### **International:**

1. Rodrigues G, Prabhu R. Subcutaneous fungal infection of the foot – A case report. *J Postgrad Med Inst* 2014;28(1):109-10.
2. Prabhu R, Rodrigues G. Non-functioning AortocavalParaganglioma Masquerading as celiac lymphnodal metastasis. *The Eurasian Journal of Medicine.* 2014;46:53-6.
3. Prabhu R. Plasmodium Vivax infection impersonating plasmodium falciparum malaria. *The Eurasian Journal of Medicine* 2014;46:50-2.
4. Prabhu P, Kumar N, Sadhu S. Acute large bowel obstruction secondary to stage 4 colonic carcinoma in an elderly man with severe aortic stenosis: a therapeutic challenge. *BMJ Case Rep* 2014.
5. Prabhu R, Krishna S, Shenoy R. Primary colonic signet ring cell carcinoma in a young patient. *BMJ Case Rep* 2014.
6. Prabhu R. Acrospiroma (Nodular Hibradenoma) of the Thigh. *Sch J Med Case Rep* 2014;2(1):54-56.

7. Gupta V, Rodrigues G, Prabhu R. Open versus closed lateral internal anal sphincterotomy in the management of chronic anal fissures: A prospective randomized study. *Asian journal of Surgery* 2014.
8. Prabhu R, Krishna S, Shenoy R. Adenocarcinoma of the duodenojejunal flexure presenting as a stricturous lesion. *BMJ Case Rep* 2014.
9. Rodrigues G, Prabhu R. Harpic (Hydrochloric acid) ingestion causing isolated gastric fundus perforation. *Spanish Journal of surgical research* 2014.
10. Prabhu R, Sarma Y. Diffuse Idiopathic Calcinosis cutis in an adult: A rare case. *The Eurasian Journal of Medicine* 2014;46:131-4.
11. Naalla R, Shetty P. Worm in vermiform appendix: a surgeon's perspective. 2014
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13. Sarma Y, Nair R. Intraspinallydatidosis with retroperitoneal extension: an uncommon location. *BMJ case Rep* 2014.
14. Naalla R, Prabhu R, Shenoy R. Thiersch wiring as a temporary procedure in a haemodynamically unstable patient with an incarcerated rectal procidentia. *BMJ Case Rep* 2014.
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16. Subramaniam J, Nair R. Malignant Phyllodes with osteosarcomatous differentiation – A case report. *Medico Research Chronicles* 2014;1(2):193-196.
17. Kumar N, Nair R, Mannan V. Giant adrenal pseudocyst presenting with hypertension: Laparoscopic management. *Medico Research Chronicles* 2014;1(2):201-207.
18. Prabhu R, Sunil K. Synchronous colorectal cancers: A Case report and review of literature. *World Journal of Medical Education and Research* 2014;7(1).
19. Kumar N, Nair R. Myiasis in a case of incasive ductal carcinoma breast – A rare presentation. *Medico Research Chronicles* 2014;1(2):208-2012.
20. Tubachi P, Kudva A, Agarwal S, Mannan V. Surgical excision of a large popliteal varicosity in a patient with type 3 von willebrand disease. *Journal of Dental and Medical Sciences* 2014;13(12):84-86.
21. Lakshminarayana B. Varicose Veins: Surgery can still be considered as an option in the treatment. *Journal of Dental and Medical Sciences* 2014;13(12):72-77.
22. LakshminarayanaB. Wilkie's syndrome: A rare cause of duodenal obstruction. *Journal of Dental and Medical Sciences* 2014;13(12):64-66.
23. Lakshminarayana B, Kudva A, Selvam K, Ratkal V. Angiolipoma: A rare cause of colonic intussusception. *Journal of Dental and Medical Sciences* 2014;13(11):48-49.

24. Lingadakai R et al. Study of bacteria causing skin infections in school going children in udupi district; cross-sectional study. International Journal of Pharmacology and Toxicology 2014;2(2):50-52.
25. Lingadakai R et al. Antimicrobial susceptibility pattern of urinary tract isolates of citrobacter species in a tertiary care memory. International Journal of Pharmacology and Toxicology 2014;2(2):88-91
26. Prabhu R, Sunil K, Lingadakai R. Ligneuscaecitis: A Granulomatous inflammation mimicking malignancy 2014.
27. Lingadakai R et al. Comparison of screening tests with urine culture in urinary tract infection. International Journal of Medicine 2014;2(2):81-83.
28. Lingadakai R et al. Isolation Journal of Pharmacology and Toxicology. International journal of Pharmacology and Toxicology 2014;2(2):86-87.
29. Lingadakai R, Naalla R, Konchada K, Kannappan O, Naalla R. Duodenal carcinoid with carcinoid syndrome. BMJ case Rep 2014.

#### National:

1. Prabhu R, Shenoy R. Be careful with an IV line. Journal of clinical and diagnostic research 2014;8(3):166-167.
2. Prabhu R, Shenoy R. Duodenal duplication cyst in an adult 2014;4(1):57-59.
3. Prabhu R, Shenoy R. Basal Cell adenoma of the salivary gland: Cribriform type, a rare case with review of literature. Archives of Clinical and Experimental Surgery 2014.

#### Details of our conference presentation have been listed below:

##### Year-2012:-

SI No.	Title of presentation	Name of faculty	Details
1	“Best Free Paper Presentation”	Dr.Chethan K	KSC-ASICON 2012, Hubli 9 <sup>th</sup> – 12 <sup>th</sup> February 2012
2	“Safe Laparoscopic Cholecystectomy”	Dr.L.Ramachandra	Mangalore City Hospital on 13/04/2012
3	“Thoracotomy for General Surgeons”	Dr.Rajgopal Shenoy	Held at Hubli 14 <sup>th</sup> February to 16 Feb 2012
4	“Post-op pyrexia”	Dr.Rajgopal Shenoy	Kerala State North Chapter on 21 <sup>st</sup> March 2012
5	Surgical Society meeting	Dr. Rajgopal Shenoy	Kannur, on 22 <sup>nd</sup> march 2012
6	“Management of intestinal fistula”	Dr.Rajgopal Shenoy	Kerala, 4 <sup>th</sup> May 2012

7	“Free paper presentation”	Dr.P.Sampath Kumar	Hubli on 14 <sup>th</sup> February 2012
8	APASICON-2012	Dr.P.Sampath Kumar	AP State conference 07/09/2012
9	Necrotizing Fasciitis	Dr.P.Sampath Kumar	Davangere on 01/07/2012
10	A Training course in advanced lap surgery	Dr.L.Ramachandra	AIIMS Delhi from 8 <sup>th</sup> to 11 <sup>th</sup> October 2012
11	“A Glimpse at advanced laparoscopic surgery”	Dr.L.Ramachandra	IMA Gangavathi on 28/10/2012
12	“Meet the professor session”and conducted clinics at the 1 <sup>st</sup> Annual Conference of the Association of Breast Surgeons”	Dr.Gabriel Rodrigues	18 <sup>th</sup> – 20 <sup>th</sup> May 2012
13	“The 17 <sup>th</sup> SGE week, advanced course in Hepato-Biliary Surgery”	Dr.Gabriel Rodrigues	March 15 <sup>th</sup> – 18 <sup>th</sup> 2012 at SGPGI, Lucknow
14	Proximation and advanced laparoscopy course, Ethicon institute of surgical education	Dr.Gabriel Rodrigues	Chennai July 28-29,2012
15	XIth Continuing Surgical Education Programme,		St.John’s Medical College, Bangalore 28 <sup>th</sup> – 29 <sup>th</sup> July 2012
16	“Workshop in laparoscopic colorectal surgery”	Dr.RajeshSisodiya	SAIMS, Indore 6 <sup>th</sup> – 9 <sup>th</sup> June 2012
17	“International Hepatobiliary Conference”	Dr.K.RajgopalSheno y, Dr.B.H.AnandRao, Dr.Gabriel Rodrigues	Kuwait on November 30 to Dec-3, 2012

**Year – 2013**

	<b>Title of presentation</b>	<b>Name of faculty</b>	<b>Details</b>
1	“Congenital Varicose Veins”	Dr.Karthikeyan S	6 <sup>th</sup> Annual conference of the venous association of India, in Goa 24 <sup>th</sup> to 26 <sup>th</sup> Jan 2013
2	“Clinical evaluation and management of varicose veins”	Dr.Badareesh L	6 <sup>th</sup> Annual conference of the venous association of India, in Goa 24 <sup>th</sup> to 26 <sup>th</sup> Jan 2013
3	Poster presentation-“Adult intussusceptions with non hodgkins lymphoma of ileum as the lead points”	Dr.Siddharth VT	KSC ASICON 2013 at Raichur
4	A Case report Obstructed ObturatorHernia”	Dr. BenakattiRajendra	31 <sup>st</sup> Annual Conference of Association of Surgeons of India, Karnataka State Chapter – 2013 in Raichur 7 <sup>th</sup> to 10 <sup>th</sup> Feb 2013.
5	Intra Thyroidal Thymona” “Metastatic malignant Phyllodes with osteosarcomatous differentiation	Dr. Jegan Mohan	31 <sup>st</sup> Annual Conference of Association of Surgeons of India, Karnataka State Chapter – 2013 in Raichur 7 <sup>th</sup> to 10 <sup>th</sup> Feb 2013.
6	“Retro sterna Goitre” & Paper “Displaced Mousseaubarbin tube”	Dr. Bharath M S	31 <sup>st</sup> Annual Conference of Association of Surgeons of India, Karnataka State Chapter – 2013 in Raichur 7 <sup>th</sup> to 10 <sup>th</sup> Feb 2013.
7	“Non hodkins large B cell lymphoma causing Ileocaecal intussusceptions with left breast carcinoma”	Dr. ChetanKulkarni	31 <sup>st</sup> Annual Conference of Association of Surgeons of India, Karnataka State Chapter – 2013 in Raichur 7 <sup>th</sup> to 10 <sup>th</sup> Feb 2013.
8	Problem oriented management of spontaneous rupture of esophagus	Dr. L Ramachandra	Udupi chapter of ASI meet on 19/01/2013

9	Well differentiated carcinoma of thyroid	Dr. L Ramachandra	Surgery CME 2012-13 at Mysore on 24 <sup>th</sup> March 2013.
10	Management of Carcinoma of Rectum	Dr. S S Prasad	Surgery CME 2012-13 at Mysore on 24 <sup>th</sup> March 2013.

### Year – 2014

Sl.No	Title of presentation	Name of faculty	Details
1	“Bile duct injury following laparoscopic cholecystectomy retrospective analysis” at ENDOSURG 2014	Dr.Badareesh L	International minimal access surgery conference at AIMS New Delhi 21 <sup>st</sup> to 23 <sup>rd</sup> March 2014
2	“Clinical profile of patients with abdominal surgical emergencies in Kasturba Hospital, Manipal	Dr.KapilTejaswy	National conference KSC ASICON 2014 at Hyderabad 25 <sup>th</sup> – 30 <sup>th</sup> Dec 2014
3	“Adult intussusception-institutional experiences”	Dr.Siddharth VT	National conference KSC ASICON 2014 at Hyderabad 25 <sup>th</sup> – 30 <sup>th</sup> Dec 2014
4	Poster presentation- “Dermatofibrosarcoma. A one in million case”	Dr.KapilTejaswy	National conference KSC ASICON 2014 at Hyderabad 25 <sup>th</sup> – 30 <sup>th</sup> Dec 2014

### **Post Graduates Thesis Details**

#### **PG (Year – 2012)**

1. Dr.Vishwanath A – Efficacy of VAC in the treatment ulcers of lower limb
2. Dr.RaunakMaru – Validation of LRINEC scoring system for necrotizing fasciitis
3. Dr.VarunLaddha – Pseudocyst of pancreas – clinical study 2 years retrospective and 2 years Prospective
4. Dr.ChetanKulkarni – Role of Laparoscopy in diagnosis/evaluation of Ascites of unknown
5. Dr.RavikiranNaalla – Laparoscopic versus open splenectomy for idiopathic thrombocytopenic purpura
6. Dr.Manas Sharma – Evaluation of Margin status in breast conservation surgery
7. Dr.Siddharth VT – Clinical profile of Pilonidal Sinus
8. Dr.Kapil T – Clinical profile of patients with abdominal surgical emergencies in KMC, Manipal

**PG (Year – 2013)**

1. Dr. AlluriVamsi Krishna – Splenic Injuries – A Profile.
2. Dr. VinayBhardwaj – Neuroendocrine tumor of GIT – A clinical study.
3. Dr. K Niranj – A Clinicopathological study of abdominal TB.
4. Dr. Aniket Dave – Prospective evaluation of BISAP score in predicating the outcome of acute pancreatitis.
5. Dr. Mohan Amaresh – Comparative analysis between preperitoneal mesh repair (TAPP) vs. Intraperitoneal mesh repair (IPOM) for umbilical and paraumbilical hernia.
6. Dr. AnkitaHarijee – Clinical outcome of birads 4 category lesions of the breast.
7. Dr. S Srujan – Effect of Dexamethasone on post-operative symptoms in patients undergoing elective laparoscopic cholecystectomy.
8. Dr. NageshBiradar – Clinicopathological study of solitary thyroid nodule.

**PG (Year – 2014)**

1. Dr. ChittineniAkhilesh – Predictors of ischemia in intestinal obstruction
2. Dr. Balaji J – Profile of Microorganisms in Necrotizing Fasciitis
3. Dr. DeeptiPai – Comparison of non-absorbable (Polypropylene) versus delayed absorbable (Polydioxanone) suture materials for abdominal wound closure after laparotomy.
4. Dr. Lella Naveen – A study of outcome of laparoscopic surgery in hydatid liver disease.
5. Dr. M Vivekananda – Laparoscopic versus open rectopexy-comparative study.
6. Dr. Madhusudhan Reddy Karagiri – Visual localization of parathyroid gland during thyroidectomy and post-operative hypocalcaemia a correlational study.
7. Dr. Srilekha Reddy – H.Pylori – Incidental commensal or Causative factor of functional dyspepsia.
8. Dr. Satya Vijay Chigurupati – Evaluation of Sentinel lymph node biopsy in breast carcinoma using methylene blue dye.

**Dr. K Rajgopal Shenoy: Chief author****Year 2012: 1 books**

1. Manipal Manual of Instruments – 1st edition – 6 author book

**Year 2014: 2 books**

1. Manipal Manual of surgery – 4th.Edition
2. Manipal Manual of surgery for Dental Students – 3rd edition



**12. Placement record of the past students and the contribution of the department to aid student placements.**

Nil

**13. Plan of action of the department for the next five years.**

The department's plan of action is to help the college in implementing its strategic plan. To develop individual units into areas of specialization in Minimal Access Surgery, Vascular surgery, Endocrine surgery, Advanced Gastro Intestinal Surgery & Robotic surgery. To develop a certification course in Minimal Access Surgical skills and endoscopic procedures. To conduct inter departmental yearly Clinical audit. To start research work in the field of oncology in collaboration with Manipal Life Sciences and international institutes.

## OBSTETRICS & GYNAECOLOGY

### 1. Faculty profile - adequacy and competency of faculty

In our department we have 21 teaching faculty meeting MCI recruitments on training and qualification for undergraduate training and postgraduate training. This includes 3 professors, 2 additional professors, 9 associate professors, 4 assistant professors and 3 senior residents. All of them are competent as clinicians and academicians. Many of them have undergone various national and international trainings and fellowships in super-specialties of obstetrics and gynecology like fetal medicine, gynecological oncology, gynecological endoscopy, infertility and urogynecology.

In addition to this we have 5 faculty members in clinical embryology wing. One professor, one associate professor and three as lecturers. They all are quite efficient and competent. They have accomplished fellowships at national & international level and are involved in quality research funded by national and international research agencies.

#### Faculty List (as on 31<sup>th</sup> Dec 2014)

**Four faculty members are resigned during 2014** (Dr Rajeshwari (Assoc. Prof.), Dr Latha (Assoc. Prof.), Dr Gayathri (Senior Resident), Dr Sujatha (Senior Resident))

SI No.	Name	Qualification	Designation	Teaching experience in years
1.	Dr. Lavanya Rai	MBBS, MD	Professor & Head	30
2.	Dr Pratap Kumar N	MBB, MD	Professor	33
3.	Dr Muralidhar V. Pai	MBBS, MD	Professor	24
4.	Dr Shripad S Hebbar	MBBS, MD	Addl. Prof.	19
5.	Dr Jyothi Shetty	MBBS, MD	Addl. Prof.	18
6.	Dr Jayaraman N	MBBS, MD	Assoc. Prof.	16
7.	Dr Shyamala G	MBBS, MD	Assoc. Prof.	13
8.	Dr Prashanth Adiga	MBBS, MD	Assoc. Prof.	12
9.	Dr Akhila Vasudeva	MBBS, MD, DNB	Assoc. Prof.	11
10.	Dr Sapana V Amin	MBBS, MD, DNB	Assoc. Prof.	11
11.	Dr Deeksha Pandey	MBBS, MS	Assoc. Prof.	9
12.	Dr. Sunanda Bharatnur	MBBS, MD	Assoc. Prof.	7
13.	Dr. Roopa P S	MBBS, MS	Assoc. Prof.	3
14.	Dr. Anjali M	MBBS, MS	Assoc. Prof.	3
15.	Dr Nisha Chauhan	MBBS, MD	Asst. Prof.	3
16.	Dr Neha Bajpai	MBBS, MD	Asst. Prof.	3

17.	Dr. Pravina Pai	MBBS,MS	Asst. Prof.	2
18.	Dr Rekha Upadhya	MBBS,MS	Asst. Prof.	1
19.	Dr Ashwathi	MBBS,MS	Senior Resident	1
20.	Dr Swati	MBBS,MS	Senior Resident	1
21.	Dr Vidyashri Poojari	MBBS,MS	Senior Resident	1
22.	Dr Shikha	MBBS,MS	Senior Resident	1
23.	Dr Shaweez Faizi	MBBS,MS	Senior Resident	1
24.	Dr Nazia Shaikh	MBBS	Junior Resident	-
25.	Dr V Sanghamithra	MBBS	Junior Resident	-
26.	Dr Sukriti Malaviya	MBBS	Junior Resident	-
27.	Dr Pranadeep Reddy	MBBS	Junior Resident	-
28.	Dr Meghna M Pai	MBBS	Junior Resident	-
29.	Dr Chandana S Bhat	MBBS	Junior Resident	-
30.	Dr K Aruna Saradha	MBBS	Junior Resident	-
31.	Dr VAnusha	MBBS	Junior Resident	-

Category	Sanctioned	Filled
Teaching staff	17	17
Senior Resident	8	5
Junior Resident	42	42

- There are additional 32 junior residents working in the department

## 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc....

Please refer Annexure No. HS 1 for details

## 3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

Our basic teaching program is based on MCI recommendations. We ensure to fulfill all the criteria laid down by MCI. In past two years we have tried to streamline and homogenize our teaching programs both for undergraduate and postgraduates.

### A. Undergraduate teaching:

- We introduced problem based learning (PBL) in the curriculum since the year 2010. We introduced it for 6<sup>th</sup> semester, 8<sup>th</sup> and 9<sup>th</sup> semesters. Problem based questions are asked for end posting exams.
- Students are introduced to Skill lab in 3<sup>rd</sup> semester. During this Family Planning

posting commonly performed procedures in gynecology like speculum examination, bimanual pelvic examination, Pap test, female catheterization and IUCD insertion are demonstrated.

- OSCE also has been introduced in the year 2013 for 9<sup>th</sup> semester afternoon tutorials.
- As the undergraduate batches are divided and subdivided into smaller groups for better teacher student interaction we have tried methods to maintain uniformity of teaching in all these groups and subgroups. This includes various combinations of teachers and students, preformed uniform power point presentation, multiple evaluations by different teachers.
- We have introduced a new concept of postgraduate preceptor in 2011, to help students learn clinical case taking. Each postgraduate takes care of four undergraduate students to help them out with history taking, examination and make them understand management of patients admitted in wards.
- Students here are encouraged to maintain a record book where they write down various cases they see in wards, and labor room. These record books were updated in the year 2012. In this updated version students are encouraged to record various ultrasounds, minor procedures and major surgeries which they have observed during their postings. We also changed the evaluation protocol of these record books since 2011. Now in every semester students have to write a certain number and type of cases which are evaluated in the same semester by our faculty members. With this we are also able to attain now a sort of uniformity in the evaluation process by the end of their course.
- We encourage them to participate in research under the guidance of our teaching faculty. In last three years some of our undergraduate students have got ICMR short term studentships and have participated at national level conferences with the results generated out of their research work. Three of our department faculties are also the members of Student Research Forum (SRF).

**B. Postgraduate teaching:** We give equal importance to class room learning and hands on training during residency

- For last 2 years we have arranged individualized ten days training in ultrasonography and colposcopy for exam going postgraduates.
- In the postgraduate teaching program from 2011 we have introduced some new topics like Medical ethics, Biomedical waste management, and Medical negligence so as to keep them abreast with the modern medical practice.
- We have also incorporated integrated interdepartmental meetings in the postgraduate teaching curriculum for the sake of overall development of thinking.
- For them it is now mandatory to present papers and posters in national conferences

and publish it in scientific journals under guidance of faculty members.

- From this 2012, we have initiated a yearly Resident conference (for young talent promotion) which is a totally dedicated effort to inculcate an essence of research in our post graduate students. Students present their research work in forms of oral and poster presentations. They are evaluated and rewarded based on their performance in this resident conference.
- A written postgraduate log book has been introduced since the year 2010. All postgraduate students are encouraged to maintain it promptly. They write down interesting cases, surgeries/deliveries they assisted or conducted/performed. After each case discussion or other presentations in the class they are evaluated for their performance. Same happens when they finish their monthly posting in a particular unit.
- The concept of Mock exam for the exam going postgraduates was introduced in the year 2011.
- Final year postgraduates are appointed as preceptors (since 2011) for a group of 4 to 5 undergraduate students during their postings in OBG. This helps the post graduates to improvise their teaching skills.

#### 4. Trends in the success and dropout rates of students during the past three years.

Course	Pass Percentage			
	2013		2014	
	April	October	April	October
<b>DGO</b>	100 %	100 %	100 %	100 %
<b>MS</b>	100 %	100 %	90 %	100 %

Dropout Rate				
	2013		2014	
	April	October	April	October
<b>DGO</b>	0	0	0	0
<b>MS</b>	0	0	0	0

#### 5. Learning resources of the departments - library, computers, laboratories and other resources

- Department of obstetrics and gynecology has got a library containing a wide range of books, including 260 textbooks, 175 periodicals/journals, 293 dissertations, and 100 illustrative CDs on various subjects related to obstetrics and gynecology. Library is situated within the department for the convenience of faculty and postgraduates so that

books are available for speedy reference. Books are regularly updated so that the most recent editions are available for reference and the new releases are added up periodically.

- The faculty is provided with laptops by the university. In addition, there are 5 desktop computers with multifunctional printers, available for the faculty and postgraduates in the department. Three of the computers are specifically used for the purpose of undergraduate and postgraduate teaching hence are situated within our classrooms, which are provided with LCD projectors. We have 5 air conditioned classrooms used for the purpose of undergraduate and postgraduate teaching.
- **Family planning museum:** Department offers a family planning museum in which various family planning methods are displayed along with brief information on their mechanism of action, uses, advantages and disadvantages.
- **Instrument & Specimen museum:** Various instruments used in obstetrics and gynecology are mounted in one of our undergraduate classrooms along with brief information about their usage. There are about 50 operative specimens related to obstetric and gynecological surgical procedures, which are used for undergraduate/postgraduate teaching. The collection of instruments and specimens are periodically updated so that students have access to recent developments in the field.
- **Other Teaching Aids:** Certain concepts like cervical dilatation and effacement, as well as mechanism of labor, which are difficult to interpret by our undergraduate students, are converted into pictorial diagrams and mounted in our undergraduate classrooms. We have several models of dummy pelvis and fetal skull for the purpose of undergraduate and postgraduate teaching. Department also contains mannequins for the purpose of demonstration of bedside techniques including obstetric examination, pervaginal examination, catheterization, and IUCD insertion and so on. We also have pelvitrainer where students can master hand eye coordination for laparoscopy
- **Audiovisual Aids:** Department contains several audiovisual aids in the form of CDs, containing several topics such as obstetric/gynecological instruments and specimens, family planning methods, and case bank which covers most of the important cases in the field. There are audiovisual aids to demonstrate obstetric examination. Normal and abnormal ultrasound pictures, non-stress test/cardiotocography traces, hysterosalpingography pictures are compiled in the form of an album for the purpose of undergraduate/postgraduate teaching-learning.

## 6. Modern teaching methods practiced and use of ICT in teaching – learning

- A. MBBS:** For undergraduate students teaching includes lectures, clinics, and tutorials are meant to impart sound theoretical knowledge.

- During this kind of teaching for past three years we have increased the use of audio visual aids like Power Point and multi-media. One to one student teacher participation is encouraged now.
- Procedure postings, visit to Rural Maternal & Child Health care centers, and night labor room postings are the mainstay to orient them to clinical skills.
- We started engaging undergraduates in ward rounds since the year 2011. The students are divided into small groups of five to eight and are rotated in all the 5 units. Here they accompany all the staff and PGs of the particular unit and get orientated to the management of patients admitted in the wards.
- Students are encouraged to learn skills in mannequins and pelvitrainers. In addition the facilities of the clinical skills lab are made use of as and when needed.

**B. MS (OBG)/DGO:** For the postgraduates learning is accomplished with two objectives: a) to impart theoretical knowledge b) to inculcate clinical skills.

- For imparting theoretical knowledge a prescheduled teaching program is made on monthly basis to include case discussions, seminars, journal clubs, panel discussions, guest lectures and staff lectures. Since 2010 for all these activities a teaching faculty is assigned as a moderator is to guide the students and facilitate supervised learning.
- For development of clinical skills the junior residents are allowed to workup the patients and decide on management, which will be implemented after consulting with the faculty member.
- They are allowed to conduct deliveries and perform minor procedures and surgeries under the supervision of consultants. They assist major surgeries and definitely get a chance to do a certain number of these, assisted by a consultant. On six monthly basis an audit is done to know whether all the students are getting enough chances.
- They are encouraged to develop their skills in the older versions of ultrasound machine and colposcope.
- We also have developed and updated a good armamentarium of usual and unusual specimens, imaging pictures, cardiocographic records and ultrasound videos to facilitate their learning.
- They are also posted to our secondary level hospitals (Dr TMA Pai Hospital Karkala and Udupi), where they conduct deliveries, perform cesareans and sterilizations.
- For an integrated approach to patient management, students they are also posted for 2 weeks each in Neonatal Intensive Care Unit (NICU), Anesthesia, Radiation Oncology and Surgical Oncology.
- Students are encouraged to perform research. During three year of degree course



every enrolled student has to perform a research work (usually clinical) which is compiled and submitted before the final exams. According to Medical Council of India (MCI) latest guidelines each student should present at least one poster and one paper in a national/international conference. They should also publish their research work preferably before their final examinations.

## 7. Participation of teachers in academic and personal counseling of students

- **MBBS:** Every batch of student is equally divided among available staff members (called faculty in-charge of undergraduate students) for personal interaction and mentoring. We also have preceptors for students to help them interacting with patients. Undergraduate students are encouraged to conduct research activities under the guidance of teachers. In recent years many of our students have been able to conduct researches as ICMR-STs projects.
- **MS (OBG)/DGO:** For most of the academic activities for post graduate students a moderator is assigned, who helps them organize their thoughts and knowledge and substantially reproduce it in the class. Enough opportunity of interaction with teachers and peers is provided in order to optimize learning. Other than dissertation for MS candidates, teachers encourage all postgraduates to conduct research activities. These students then are then motivated to present this research work at national or international platforms. At the clinical/surgical skill development front also our students are always either supervised or assisted by a consultant.

**Clinical Embryology:** All faculties are engaged actively in the postgraduate teaching. Every attempt is made to make the topic simple and interesting. Students are encouraged to clarify their doubts during the lecture or later. The postgraduate students carry out regular lab work under supervision of faculty member. The postgraduate undertake the prescribed dissertation work under the guidance of their allotted guide and also do voluntary researches work under different faculty. Postgraduates are encouraged to present paper/poster during national conference. They are also guided by faculty to publish quality papers in national and international indexed journals.

We have one to one teaching programme. Slow learners are given special attention to overcome their learning difficulties. Every effort is made to provide them additional opportunities for improvement by personalized discussion and relevant explanations.

### 8. Details of faculty development programmes and teachers who have been benefited during the past three years.

**2013**

Name	
Dr Nazia Shaikh	Development programme Life Support Techniques&Advanced Life Support
Dr V Sanghamithra	
Dr Sukriti Malaviya	
Dr Pranadeep Reddy	
Dr Meghna M Pai	
Dr Chandana S Bhat	
Dr K Aruna Saradha	
Dr VAnusha	
Dr Taswin Kaur	
Dr Leena M N	
Dr Preethi D S	
Dr Sindu	
Dr Sreevidya	

**2013**

Name	Development programme
Dr Praveena	Pedagogic/personal effectiveness workshop focusing on teaching-learning effectiveness and communication skills
Dr Latha	

**2014**

Name	
Dr Tracy Khuraijam	Development programme Life Support Techniques&Advanced Life Support
Dr Shaiesta Amreen	
Dr Manoj	
Dr Sahan S Kumar	
Dr Abhilasha Agarwa	
Dr Divya Solipuram	
Dr Srividya K	
Dr Are Vidya Reddy	
Dr Chaitanya	
Dr Zara Ali	

Dr Shanthala	
Dr Pallavi G	
Dr Mythri Sharan B K	
Dr Bhagyarekha	

Name	Development programme
Dr Jayaram	Pedagogic/personal effectiveness workshop focusing on teaching-learning effectiveness and communication skills
Dr Roopa	
Dr Lavanya Rai	participated in "Nurturing excellence in Work place " organised by TAPMI Manipal on october 17th AND 18TH 2014

All our faculty regularly attend faculty development program including pedagogic/personal effectiveness workshop focusing on teaching-learning effectiveness and communication skills; certificate course in biostatistics, epidemiology and research methodology. Faculty attend basic and advanced life support courses periodically details enclosed. Faculty also attend certain essential training courses conducted in the hospital, like disaster management, firefighting, and safety awareness trainings.

Faculty regularly attend scientific program like conferences, workshops, symposia and CMEs. In the last 2 years, faculty have attended about 30 such scientific programs

We encourage our faculty members to visit national and international centers of excellence and learn modern skills. Several of our faculty have been benefited with overseas fellowships and research grants in the last two years.

### **Fellowships/Observership**

**Dr Sunanda :** Gynaec laparoscopic and robotic onco surgery from AUGUST 2014 TO feb 2015

**Dr Deeksha Pandey:** APAGE Taiwan, Gynecological endoscopy from 1<sup>st</sup> to 30<sup>th</sup> April 2014

**Dr Deeksha Pandey:** International Gynecological Oncology Travelling Fellowship from November 2014, Australia

### **Awards/Recognitions: (January to December 2013)**

#### **a) Faculty members: 7**

1. Dr. Pratap Kumar: On behalf of the Manipal OBG Society as the President received the "Dr. D. K. Tank Reproductive Health Care Promotion Trophy" for the best activities in Category "B" for the year 2011-2012 at Mumbai during the 56<sup>th</sup> All India Congress of Obstetrics & Gynaecology on 17<sup>th</sup> January 2013.

2. Dr. Pratap Kumar (Best review paper award): Comparison of human chorionic gonadotropin and gonadotropin releasing hormone agonists as ovulation trigger in assisted reproductive technology cycles an update. Indian Obstetrics and Gynaecology. Vol 2 (2); 69: Apr-Jun 2012. (5th October 2013 at New Delhi – in absence)
3. Dr. Pratap Kumar Appointment: Appointed as member, project review group on women's health for Indian Council of Medical Research from 2013. (Attended meeting in Delhi on 12 April 2013).
4. Dr. Amar : Presented a poster titled "Impact of embryo transfer depth on in vitro fertilization and embryo transfer" co authored by Chandana A, Aravind Menon, Rajeshwari Bhat, Satish Adiga, Rajesh Bhakta, Pratap Kumar won Dr. Mrs. Jagdishwari Mishra Prize for the Posters (2<sup>nd</sup> best poster) under the theme uterus in focus.
5. Dr. Lavanya Rai: Awarded Good Teacher award on Diamond Jubilee College Day and Annual Awards Ceremony on 19<sup>th</sup> march
6. Dr. Murlidhar V Pai: Awarded Good Teacher award on Diamond Jubilee College Day and Annual Awards Ceremony on 19<sup>th</sup> march
7. Dr. Amar Ramachandran: Awarded Best Wicket Keeper in MIST 2013 (Manipal Intermedical Sports Tournament) held at KMC, Manipal.

**b) Students (Postgraduates): 7**

1. Dr Pavithra M has won the First prize in the Quiz competition in ICON 2013 OBGYN update conference at Coimbatore - held on 6<sup>th</sup> -8<sup>th</sup> December 2013.
2. Dr Indumathi has won the First prize in the paper presentation in Karnataka state OBGYN conference
3. Dr Indumathi and Amrutha have also won the third prize in the Quiz competition on the topic "Reproductive Endocrinology", KSOGA conference at Hubli - held on 3<sup>rd</sup> to 5<sup>th</sup> October 2013.
4. Dr Hema and Dr Greeshma have won the second prize in the Quiz competition on the topic "Medical Disorders in Pregnancy" by FOCUS "All India PG training programme" Jubilee mission hospital, at Trissur - held on 29<sup>th</sup> August 2013.
5. Dr Sinduja won the first prize for Best Paper presentation in the Resident conference which was a part of "Dr Padma Rao memorial Post graduate update" held on 27<sup>th</sup> July 2013.
6. Dr Pavithra won the first prize for Best Poster presentation in the Resident conference which was a part of "Dr Padma Rao memorial Post graduate update" held on 27<sup>th</sup> July 2013

7. Dr Hema K & Dr Indumathi have won the first prize in the Quiz competition on the topic Medical Disorders in pregnancy in the Resident conference which was a part of “Dr Padma Rao memorial Post graduate update” held on 27<sup>th</sup> July 2013

#### **Awards/Recognitions: (January to December 2014)**

##### **Dr Pratap Kumar:**

1. Received Good teacher award from Kasturba Medical College, Manipal for Excellence in Teaching - 2013
2. Member-Appointment by Dept. of Biotechnology, Ministry of Science & Technology, New Delhi
3. Member of Task force of Human Developmental & Disease Biology, Department of Biotechnology DBT, Min of Science & Technology, New Delhi.

**Dr. Deeksha Pandey :** Shingo Fugii Award to participate in the Young Doctor Summit (YDS) to be held on 7<sup>th</sup> of Nov 2014 during IGCS conference , Melbourne Australia (7-11<sup>th</sup> November 2014)

##### **Details of Research Grants:**

Sr. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)
1	Deregulation of miRNAs in Cervical Cancer: Control by DNA Methylation	Dr Deeksha Coinvestigator	DBT, Government of India	74 lakhs
2	Screening for Human Papilloma Virus and other DNA virus infections of the cervix among tribal women in Southern India	Dr Deeksha Coinvestigator	ICMR	37,62,118 /-
3	Occult Anal Sphincter Injury following Instrumental Delivery: A Physiological Analysis	Dr Deeksha Principle Investigator	MU Research grant	25,000
4	Evaluation of sperm chromatin modification, sperm methylation errors and reproductive toxicity in radiation health workers	Dr Pratap Kumar Principal Investigator	Indian Council of Medical Research (ICMR), Govt. of India	15,00,000

5	The impact of chromosomal and sub-chromosomal sperm abnormalities on the embryonic development and Assisted Reproductive Technology (ART) outcome	Dr Pratap Kumar  Co-investigator	Department of Science and Technology (DST), Govt. of India	35,00,000
6	Intermediates of calcium signal process as oocytes activating agents and development of an optimum culture medium for mouse parthenotes	Dr Pratap Kumar  Co-investigator	Department of Biotechnology (DBT), Govt. of India	10,00,000
7	Evaluation of laser manipulated embryos for their hatching potential, metabolic changes and laser induced effects	Dr Pratap Kumar  Co-investigator	Indian Council of Medical Research (ICMR), Govt. of India	25,00,000
8	A study to evaluate the impact of different controlled ovarian stimulation protocols on physical and psychological burden in patients undergoing In-Vitro Fertilization/In-Vitro Cytoplasmic Sperm Injection	Dr Pratap Kumar  Principal Investigator	GVK Bioscience Pvt. Ltd., Gurgaon, India	2,20,600
9	Fertility preservation using Moringa oleifera leaf extract in mice treated with Chemotherapeutic agents and its mechanism	Dr Pratap Kumar  Co-investigator	Indian Council of Medical Research (ICMR), Govt. of India	18,00,000
10	‘Development of ECO (Easy Cervico Optimizer) - a novel device to facilitate cervix cancer screening’	Dr Shyamala  Principal Investigator	CAMTech India Innovation Award from MGH's Center for Global Health	US \$ 50000

## 9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

For consultancy all faculty are divided into five units, which are dedicated to cater the needs of outpatients on a particular day of the week. Saturday and Saturday OPDs are on rotation for these five units. Labor cases and emergency patients are taken care off in the labor suits and high dependency units. Here every day by rotation two to three consultants are on 24 hour call duty. We have specialized clinics too namely high risk pregnancy clinic, menopause clinic, cancer screening clinic, and infertility clinic.

All faculty from Professors to Senior Residents are posted to teach both undergraduate and postgraduate students. We have a very meticulous, well designed and elaborate program of both undergraduate and postgraduate teaching. We keep on updating our knowledge as well as teaching techniques so as to cope up with the emerging needs of our students.

All of our faculty members actively participate in research. Post graduate students have to conduct other research works besides dissertation under the guidance of faculty members, which has to presented in form of paper and posters in national/international conferences.

In the year 2013 & 2014 we organized Dr A Padma Rao memorial Postgraduate update.

### Dr Padma Rao memorial Post graduate update 2013

27.07.2013	Dr A Padma Rao Memorial Resident Conference For Young Talent Promotion
28.07.2013	Dr A Padma Rao Endowment Memorial Oration
Orator	Oration by Professor V P Paily, Former Vice [resident FOGSI

### Dr Padma Rao memorial Post graduate update 2014

12.07.2014	Dr A Padma Rao Memorial Resident Conference For Young Talent Promotion
13.07.2014	Dr A Padma Rao Endowment Memorial Oration
Orator	Oration by Professor Deepika Deka, OBGYN All India Institute of Medical Sciences, New Delhi.

They are also encouraged to publish their research work. Even interested undergraduates are encouraged to participate in various ongoing or new research activities. We have been guiding students for ICMR-STs also. The department is also exploring avenues for research collaborations with other institution nationally and internationally.



### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

Please refer to ANNEXURE OBG1

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Please refer to ANNEXURE OBG1 for above particulars in Clinical Embryology Department.

#### Our ongoing PG (MS OBG) research projects

2013

Sl No	PG Name	Thesis Title	Thesis Guide	Ethical committee clearance
1.	Dr Vuppula Sanghamithra 130118001	Placental parameters and fetomaternal hemorrhage	Dr Muralidhar V Pai	10/09/2013 IEC 400/2013 Obtained
2	Dr Sukriti Malaviya 130118003	Prospective validation of fetal weight estimation using fractional limb volume	Dr Shripad Hebbar	10/09/2013 IEC 397/2013 Obtained
3	Dr Pranadeep Reddy Inukollu 130118004	Circulating Angiogenic and anti Angiogenic Factors in preeclampsia	Dr Lavanya Rai	10/09/2013 IEC 402/2013 Obtained
4	Dr Meghna M Pai 130118005	Estimation of natural killer cells and role of intralipid in recurrent pregnancy loss	Dr Pratap Kumar	10/09/2013 IEC 390/2013 Obtained
5	Dr Chandana S Bhat 130118006	Correlation between Fetal Adrenal Gland Volume by 2D Ultrasound and Onset of Labour	Dr Sapna V Amin	10/09/2013 IEC 389/2013 Obtained

6	Dr K Aruna Saradha 130118008	Simple Ultrasound based rules for the triage of adnexal masses	Dr Jyothi Shetty	11/09/2013 IEC 393/2013 Obtained
7	Dr Chaitanya 130118009	Study of prevalence of stress urinary incontinence (SUI) in Indian women and efficacy of management options	Dr Deeksha Pandey	13/11/2013 IEC 563/2013 Obtained
8	Dr Sandya M R 130118011	Ovarian reserve evaluation by Anti-mullerian hormone assay in women undergoing Laparoscopic ovarian cystectomy	Dr Pratap Kumar	11/09/2013 IEC 392/2013 Obtained
9	Dr Vallamkondu Anusha 130118012	The predictive value of integrated antenatal screening at 11 -14 weeks.	Dr Akhila Vasudeva	09/10/2013 IEC 449/2013 Obtained

**2014**

Sl.No	Name	Thesis Title	Thesis Guide	Ethical committee clearance
1	Shaiesta Amreen 140118001	Evaluation of oxidative stress and severity of endometriosis.	Dr Pratap Kumar	09/09/2014 IEC 461/2014 Obtained
2	Nazia Shaikh 140118003	Correlation of Placental Morphometry and Fetal Growth In Normal And High Risk Pregnancies	Dr Lavanya Rai	12/8/14 IEC 398/2014 Obtained
3	K Tracy Kh Ratan Kr Singh 140118005	Longitudinal evaluation of fetal growth parameters by serial ultrasound; establishing reference standards for local population	Dr Shripad Hebbar	09/09/14 IEC 465/2014 Obtained

4	Sahan S Kumar 140118009	Role of prophylactic intra-operative tranexamic acid in hysterectomies for benign gynecological conditions to reduce blood loss.	Dr Sapna V Amin	Submitted
5	Manoj S R 140118010	Lipoprotein(a) levels in normal pregnancy and preeclampsia	Dr M V Pai	12/08/14 IEC 438/2014 Obtained
6	Abhilasha Agarwal 140118011	Comparative Study of Laparoscopic Assisted Vaginal Hysterectomy and Minilap Hysterectomy for Benign Gynecological Conditions	Dr Jyothi Shetty	12/08/14 IEC 429/2014 Obtained
7	Srividya Kunamneni 140118012	Correlation of $\beta$ hCG , PAPP-A and Proteinase inhibitors activities at 11-14weeks with second trimester fetal growth parameters	Dr Shyamala G	09/09/14 IEC 467/2014 Obtained
8	Solipuram Divya 140118013	Correlation of placental histomorphology with Doppler velocitometry in Preeclampsia and IUGR and their perinatal outcome.	Dr Prashanth Adiga	15/10/14 IEC 533/2014 Obtained
9	Are Vidya Reddy 140118015	Transabdominal scan to screen women requiring transvaginal scan for cervical length in pregnancy	Dr Jayaraman Nambiar	Submitted

### Research and Publications –

#### 2012- International - Index

1. Ramesh Bhat Y, Vinayaka G, Sreelakshmi KN. Antenatal Bartter Syndrome: A Review. International Journal of Pediatrics. Volume 2012, Article ID 857136, doi:10.1155/2012/857136
2. Sujatha Bhat, Ajeetkumar Patil, Lavanya Rai, V. B. Kartha, and Santhosh Chidangil, “Application of HPLC Combined with Laser Induced Fluorescence for Protein Profile

- Analysis of Tissue Homogenates in Cervical Cancer,” *The Scientific World Journal*, vol. 2012. doi:10.1100/2012/976421
3. Alok Sharma, Pratap Kumar. Understanding implantation window, a crucial phenomenon. *Journal of Human Reproductive Sciences*. 2012; 5 (1);2-6:
  4. Attibele Palaksha Manjunath , Nidhika Chhabra , Shivarudraiah Girija , Sreekumaran Nair Pain relief in laparoscopic tubal ligation using intraperitoneal lignocaine: a double masked randomized controlled trial . *European Journal of Obstetrics & Gynecology and Reproductive Biology Online* : <http://dx.doi.org/10.1016/j.ejogrb.2012.06.035>
  5. Pratap Kumar, Kashif Khan. Effects of metformin use in pregnant patients with polycystic ovary syndrome. *Journal of Human Reproductive Sciences*. 2012; 5 (2);166-169
  6. Akhila Vasudeva, Raviraja V Acharya, Pratap Kumar. A rare case of recurrent pregnancy loss associated with high-titer positivity for perinuclear anti-neutrophilic cytoplasmic antibodies. *Journal of Human Reproductive Sciences*.2012; 5(2);221- 222
  7. Smita Sinha, Amar Ramachandran, Rajesh Kumar\*, Rajesh Bhakta, Akhila Vasudeva, Rajeshwari Bhat, Pratap Kumar Evaluation Of Hysterosalpingoscintigraphy (HSSG) As A Tool For Tubal Patency Test. *NJIRM*. 2012; 3(4): 19-23
  8. Navneet Magon, Sanjiv Chopra, Pratap Kumar. Geroprotection : A promising future. *Journal of Mid-Life Health*. 2012; 3 (2);56-58
  9. Gayathry Nayak, Asha Kamath, Pratap Kumar, Anjali Rao. A study of quality of life among perimenopausal women in selected coastal areas of Karnataka, India. *Journal of Mid-Life Health* 2012; 3 (2);71-75
  10. Lavanya Rai, Hebbar S, Shyamala G, Adiga P, Anjali S Recurrent Hydatidiform mole - A rare clinical problem. *J Turkish- German Gynecol Assoc* 2012 ; 13: 284-6
  11. Amar Ramachandran, Swati Sharma, Kumar Pratap, et al., “Ovarian Pregnancy following Intracytoplasmic Sperm Injection and Embryo Transfer: A Case Report,” *Case Reports in Obstetrics and Gynecology*, vol. 2012, Article ID 389107, 3 pages, 2012. doi:10.1155/2012/389107
  12. Adiga Prashanth, Rai Lavanya, K. M. Girisha, and Anjali Mundkur, Placental Teratoma Presenting as a Lobulated Mass behind the Neck of Fetus: A Case Report *Case Reports in Obstetrics and Gynecology* Volume 2012, Article ID 857230, 2 pages doi:10.1155/2012/857230
  13. Deeksha Pandey, Vidhi Vanya, Saurav at, Binu VS, Jyothi Shetty. Awareness and attitude towards Human Papillomavirus (HPV) vaccine among medical students in a premier Medical School in India *PLoS ONE* 7(7):e 40619.doi 10,1371/ journal .pone.0040619:July 2012

14. Shetty J, Chawla R, Pandey D, Kamath A, Guddattu V. Sublingual misoprostol: A better choice for cervical priming before manual vacuum aspiration. *Indian J Med Sci* 2010;64:356-62(published now)
15. Abhay TarnathKamath, Manish Kumar, R Balakrishna, ganesh Kamath, R Amar Ludwig's Angina in Pregnancy Necessitating Pre mature delivery Case report 28 2012, *J of Maxillofac.Oral Surg.*Online:DOI 10.1007/s 12663-0120-0410-6 published online on 1<sup>st</sup> August 2012
16. Vinod C Nayak, Shankar M Bakkannavar, Gururaj Biradar, G Pradeep Kumar, R Amar Epidemiology of rodenticide poisoning in Manipal *J of SIMLA* 2012; 4:46-49

#### **International – Non-index**

1. Rajeshwari G Bhat, K V Bhagya, Pratap Kumar. Association of low maternal plasma glucose after oral glucose challenge test with small for gestational age neonate. *International Journal of Infertility and Fetal Medicine* 2012; 3(1):22-25
2. Pratap Kumar, Anand Balasubramanian. Endometrioma Cyst: To remove or not? *International Journal of Infertility and Fetal Medicine* 2012; 3(1):26-29
3. Deeksha Pandey, Supriya Sundar Mishra, Rahul Raheja, Abha Shrestha, Aashish Saxena, Leslie E Lewis. Surfactant Era and Obstetric decision making. *SLCOG* 2012; 34: 99-105

#### **National – Indexed**

1. Syal Neeru, N Sreekumaran, Lavanya Rai. Iron Sucrose Versus Oral Iron Therapy in Pregnancy Anemia *Indian journal of Community Medicine* 2012; 37 (4):214-218

#### **National –Non-indexed**

1. Prashanth K Adiga, Sreelakshmi KN, Sanjay Kumar, Roopa PS Screening of Down Syndrome: A review.. *Indian J of Perinatology & Reproductive Biology* 2012; 1(2):9-13
2. Rajeshwari G Bhat , Vijay Kumar , Ranjini Kudva , Parvati V Bhat Sonographic Diagnosis of Fetal Suprarenal Masses: *Genetic Clinics* 2012; 5 (2)
3. Prashant Joshi, Pratap Kumar. Comparison of human chorionic gonadotropin and gonadotropin releasing hormone agonists as ovulation trigger in assisted reproductive technology cycles an update. *Indian Obstetrics and Gynaecology.* 2012; 2 (2):6-9.
4. Manjunath Attibele Palaksha, Girija Shivarudraiah. Embrologically Based Resection of Cervical Cancer: A New concept of Surgical Radicality. *The journal of Obstetrics and Gynecology of India.*2012; 62(1): 5-14

5. Pratap Kumar, Sameer Tapryal. Safety of Radiographic Investigations in Pregnancy. Journal of Paediatrics, Obstetrics & Gynaecology. 2012; 3 (9):325-329

### Books published

Nil

### Chapters in a book

Sl.NO	CHAPTER(BOOK)	ACULTY NAME	PUBLISHER
1	Donald School Manual of Practical Problems in Obstetrics - Chapter in the Book "Vaginitis in Pregnancy".	Dr Pratap Kumar	Jaypee Publishers.
2	Key Opinions on Multifaceted Aspects of Dydrogesterone in Dydrogesterone in Recurrent Miscarriage (Monogram on Dydrogesterone)	Dr Pratap Kumar	
3	Chicken pox in pregnancy. In Donald Text Book of Practical Obstetrics, 1 <sup>st</sup> Edition	Dr Lavanya Rai	Jaypee Publishers

### 2013

#### Index

1. Pratap Kumar, Navneet Magon Hormones in pregnancy, Nigerian Medical Journal 2012, Vol. 53: Issue 4; 179-183
2. Vasudeva A, Bhat RG, Ramachandran A, Kumar P. Case series: Infection and acute respiratory distress syndrome during pregnancy: a case series of preventable maternal deaths from southern India. J Infect Public Health. 2013 Feb;6(1):55-7. pubmed
3. Pratap Kumar Natasha Nawani, Narendra Malhotra, Jaideep Malhotra, Madhuri Patil, K. Jayakrishnan, Sujata Kar, Padma Rekha Jirge, Nalini Mahajan. Assisted reproduction in polycystic ovarian disease: A multicentric trial in India. Journal of Human Reproductive Sciences. Vol.6 No.1;49-53:Jan-Mar 2013.
4. Bhavna Nayal, Mary Mathew, Lakshmi Rao, Bhawna Nagel, Pratap Kumar. Synchronous bilateral clear cell carcinoma and papillary serous cystadenocarcinoma of the ovaries Case Report J Interdiscipl Histopathol, March 2014; 2(1): 52- 55 doi: 10.5455/jihp.20130323125431 ISSN:21468362
5. Roopa PS, Shailja Verma, Lavanya Rai, Pratap Kumar, Muralidhar V Pai, Jyothi Shetty. "Near Miss" Obstetric events and maternal deaths in a tertiary care hospital: An audit. Journal of Pregnancy, 1-5:2013.

6. Deeksha Pandey, Gasser Anna, Ottenschlaeger. Correlation between clinical presentation and urodynamic findings in women attending urogynecology clinic journal of Midlife Health, jul-sep 2013, vol 4, issue 3: 153-159
7. Kabekkodu SP, Bhat S, Mascarenhas R, Mallya S, Bhat M, **Pandey D**, Kushtagi P, Thangaraj K, Gopinath PM, Satyamoorthy K. Mitochondrial DNA variation analysis in cervical cancer Mitochondrion. 2014 May; 16:73-82. pii: S1567-7249(13)00100-1. doi: 10.1016/j.mito.2013.07.001.
8. Pratap Kumar, Siddharth Mahajan. Preimplantation and postimplantation therapy for the treatment of reproductive failure. Journal of Human Reproductive Sciences. Vol 6; 88-92 Apr-Jun 2013.
9. Renske DM Steenbergen, Maté Ongenaert, Suzanne Snellenberg, Geert Trooskens, Wendy F van der Meide, Deeksha Pandey, Noga Bloushtain-Qimron, Kornelia Polyak, Chris JLM Meijer, Peter JF Snijders and Wim Van Criekinge. Methylation –specific digital karyotyping of HPV16E6E7-expressing human keratinocytes identifies novel methylation events in cervical carcinogenesis. THE JOURNAL OF PATHOLOGY Volume 231, Issue 1, September 2013, Pages: 53–62 (Impact factor: 7.5)
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2. Dr PratapKumar :ECAB clinical Update:Obs and Gynaec,Chapter in the book Luteal Phase Insufficiency :diagnostic Markers.Alok Sharma pg 46-61.Published by Elsevier
2. Dr. Murlidhar V Pai :Chapter on "Obstetric Hemorrhage" Edited by Gita Arjun, Usha Ram and Lakshmi Sheshadri, in Practical Obstetrics 1st Edition, Orient Longman, 2013

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2. Pratap Kumar Role of Teaching Institutions for Safe Motherhood Initiative: Beyond the Hospital – Chapter in the Book “Safe Motherhood Initiative – A Silet Revolution”. First Editon: 2014. Page-249-254. Edited by: Dr Sadhana Gupta. Published by Jaypee Brother Medical Publisher Pvt. Ltd.
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4. Dr Pratap Kumar: Unexplained infertility – Chapter in the Book Principles & practice of Assisted Reproductive Technoloy. First Edition, Volume I, 2014 pg 514-518. Edited by : Dr Kamini A Rao. Published by Jaypee Brother Medical Publisher Pvt. Ltd.
5. Dr Lavanya: Time and mode of delivery in hyper tension complicating pregnancy-Text book of hypertensive disease of pregnancy. Jaypee Publisher, Edited by Professor Arulkumaran, 2014.

## CONFERENCES

### 2013

#### Paper presentation in the 2013 by Staff

Sl.No	Faculty	Paper Title	Event
1	Dr. Muralidhar V Pai	Association of biochemical tissue specific injury markers in postpartum cord blood and fetal distress	Jan 18-20, 2013 AICOG Mumbai
2	Dr. Sunanda Bharatnur	Vaginal route for cervical stump removal: Mission impossible	Jan 2013 AICOG, Mumbai.

#### Poster presentations 2013 by Staff

Sl. No	Faculty	Poster Title	Event
2013			
1	Dr. Amar	“Impact of embryo transfer depth on in vitro fertilization and embryo transfer” co authored by Chandana A, Aravind Menon, Rajeshwari Bhat,	16 to 20 <sup>th</sup> January -56 <sup>th</sup> All India Congress of Obstetrics and Gynecology at Mumbai .



		Satish Adiga, Rajesh Bhakta, Pratap Kumar	
2	Dr. Pratap Kumar	Use of strict criteria for starting GnRH antagonist : Can it prevent premature luteinization.	October 12 – 17, 2013 Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine at Boston, USA.
3	Dr. Deeksha Pandey	Routine Urodynamics Is it required anymore	Hydrabad OBS – Urogyaecology update, 8 <sup>th</sup> -9 <sup>th</sup> November .

### Guest Lectures given by Staff in 2013

Sl.No	Faculty	Guest lecture Topic	Event (Date/ Venue)
1	Dr. Pratap Kumar	Role of heparin therapy in RPL	Jan 16-20, 2013 AICOG-2013, Mumbai
2	Dr. Pratap Kumar	Significance of D2/D3 evaluation in infertility	January 27, 2013 – Indian Society for Assisted Reproduction .
3	Dr. Shyamala	Approach to postmenopausal bleeding	7th January 2013 Forum of Obstetricians and Gynecologists, Indor
4	Dr. Muralidhar V Pai	Cervical behaviour in pregnancy	January 18-20, 2013 AICOG Mumbai
5	Dr. Pratap Kumar	Seven pillars of wisdom in assisted reproduction	February 9-10, 2013 All Kerala Congress on Obstetrics & Gynaecology AKCOG-2013 at Kannur
6	Dr. Pratap Kumar	a) Preventing ovarian hyperstimulation syndrome b) Selecting best sperm in Assisted reproduction	24th February Infertility update at Kollam, Kerala .
7	Dr. Amar	Tips for better understanding of pelvic ultrasound.	8-10 <sup>th</sup> February All Kerala Congress of Obstetrics and gynecology at Kannur, Kerala.



8	Dr. Pratap Kumar	Fibroids- Diagnosis to clinical management of fibroids	23rd March Indian society of assisted reproduction Madhya Pradesh congress held at Indore
9	Dr. Pratap Kumar	Evidence for role of sperm in first trimester pregnancy loss	30th March South Asian society for sexual medicine (SASSM) at Bangalore
10	Dr. Pratap Kumar	Fibroids: From Diagnosis to Clinical Management, Are we improving?	March 23 – 24, 2013 Annual Conference on “Infertility For Us” organized by MP Chapter of ISAR, MP Chapter of IFS & Indore
11	Dr. Pratap Kumar	Evidence for role of sperm in first trimester pregnancy loss	March 29 – 31, 2013 Inaugural conference of South Asian Society for Sexual Medicine (SASSM) at Bangalore.
12	Dr. Pratap Kumar	Preventing early pregnancy loss	April 27, 2013 CME at Ahmadabad Obstetrics & Gynaecology Society, Ahmadabad
13	Dr. Pratap Kumar	Fibroids with infertility – What should we do?	May 11 – 12, 2013 International conference on Cutting Edge 2013 at Bangalore.
14	Dr. Pratap Kumar	1)Controversies in the diagnosis of PCOS 2) Role of ultrasound for diagnosis of PCOS	May 17-19, 2013 Asia Pacific Initiative on Reproduction India 2013 at Chennai.
15	Dr. Pratap Kumar	1) Seven Pillars of Wisdom in Assisted Reproduction 2) Follicular Dynamics and Optimising Ovulation Induction Protocols.	May 30 – June 2, 2013 22 <sup>nd</sup> Malaysian International Congress of Obstetrics & Gynaecology at Kuala Lumpur, Malaysia.

16	Dr. Pratap Kumar	How best one can practice Infertility by minimal investigations with maximum potential treatments	May 30, 2013 Melaka Manipal Medical College, Malaysia
17	Dr. Amar Ramachandran	Basics in infertility	MCON for BSc Nursing 3rd year on 20.5.13
19	Dr. Pratap Kumar	Emerging Role of Estrogen in Women Healthcare.	July 13, 2013 CME at Bangalore
20	Dr. Pratap Kumar	Severe IUGR / FGR -further management.	July 19, 2013 International congress on “Critical Care in Obstetrics” at Pune.
21	Dr. Pratap Kumar	1. Changing trends in the evaluation and management of male infertility”	July 21, 2013 Thrissur Gynecology Society Meeting at Thrissur
22	Dr. Rajeshwari Bhat	Role of Didrogestrone in recurrent pregnancy loss	27 <sup>th</sup> and 28 <sup>th</sup> July 2013 Dr. Padma Rao memorial postgraduate update and oration on at Dr. TMA Pai Hall, Manipal
23	Dr. Deeksha Pandey	Managing Malaria and its complication in pregnancy	July 21 <sup>st</sup> 2013 ICCCO ,Pune
24	Dr. Pratap Kumar	Assisted Reproductive Technology in virus positive patient, Indian scenario	August 7 - 11, 2013 13 <sup>th</sup> International Conference at Chennai
25	Dr. Pratap Kumar	1) Topic understanding physiology of ovulation for better outcome in treatment 2) Preventing early pregnancy losses	August 25, 2013 CME at Thane, Maharashtra
26	Dr. Pratap Kumar	Intervention in PPRM and preventing preterm labour - What influences decision making?	August 26-30, 2013 Thrissur Society of OBGYN.
27	Dr. Pratap Kumar	Preventing ovarian hyperstimulation syndrome and its problems	August 30 – Sept 1, 2013 ADVANCES 2013 – the Fourteenth Annual International Congress in Obstetrics, Gynaecology

			& Reproductive Medicine” at Trivandrum, Kerala.
28	Dr. Muralidhar V Pai	RPL What’s new?	August 2013 Advances 2013 at Trivandrum
29	Dr. Pratap Kumar	Recurrent pregnancy loss.	September 7, 2013 CME at Calicut Obstetrics & Gynaecology Society, Calicut, Kerala.
30	Dr. Pratap Kumar	The third eye - “Knowing the endometrium”	September 13 – 15, 2013 International Conference on Recent Advances in Obstetrics & Gynaecology at Hyderabad.
31	Dr. Pratap Kumar	1. Standardized Evaluation of fetal well being by Fetal Master health check up (FMHC) 2. Monitoring of ovulation and preventing complications 3. Adnexal masses – diagnosis by ultrasound 4. The early pregnancy evaluation by ultrasound	September 21-22, 2013 Xth National Conference on Ultrasound. Organized by Institute of Ultrasound Training at New Delhi.
32	Dr. Lavanya Rai	1. GDM what’s the Latest Consensus? 2. Labour in Medical Disorders	September 1st 2013 Advances 2013 – Trivandrum
33	Dr. Muralidhar V Pai	Beyond EFM	September 2013 FOGSI FIGO International Conference on Advances in OBG, Hyderabad.
34	Dr. Muralidhar V Pai	Prevention and management of sepsis in labour	September, 2013 Gynecon 2013, conducted by Rajasthan OBG Association, Udaipur
35	Dr. Pratap Kumar	Ovarian hyperstimulation syndrome – prevention and management by	October 3-6, 2013 Karnataka State Obstetrics

		understanding patho physiology	& Gynaecological Congress (KSOGA 2013) at Hubli.
36	Dr. Pratap Kumar	Is Metformin needed in polycystic ovarian syndrome.	October 25 – 26, 2013 ART UPDATE 2013 Pre-Congress Workshop on “Reproductive Endocrinology”, Kolkata.
37	Dr. Pratap Kumar	Genetic and chromosomal defects in male infertility	October 25 – 26, 2013 ART UPDATE 2013 conference at Kolkata.
38	Dr. Pratap Kumar	Correlation of histology & endometriotic cystectomy technique.	October 27, 2013 International Conference on “Endometriosis” - The Mystery Unraveled at Bangalore
39	Dr. Praveena Pai	Oral Presentation on Colposcopy-image interpretation and management	4 <sup>th</sup> -6 <sup>th</sup> October 2013 KSOGA ,Hubli
40	Dr. Muralidhar V Pai	Prevention of sepsis	4 <sup>th</sup> -6 <sup>th</sup> October KSOGA ,Hubli
41	Dr. Muralidhar V Pai	Alternative therapies for pain relief in endometriosis.	International Conference on Endometriosis held at Bangalore Oct 27, 2013
42	Dr. Jyothi Shetty	Complications and Management of caesarean delivery	27.10.2013 CME: Surgical complications in OBG on at Physiology Lecture Hall, Subbaiah Institute of Medical Sciences, Purale, Shimoga
43	Dr. Shripad hebbar	Complications & Management of hysterectomy	27.10.2013 CME: Surgical complications in OBG on at Physiology Lecture Hall, Subbaiah Institute of Medical Sciences, Purale, Shimoga

44	Dr. Rajeshwari G Bhat	Complications & Management of Laparoscopic Gynaecologic surgeries	27.10.2013 CME: Surgical complications in OBG on at Physiology Lecture Hall, Subbaiah Institute of Medical Sciences, Purale, Shimoga
45	Dr. Pratap Kumar	Thrombophilias and pre-eclampsia	November 8-10, 2013 LIFE conference 2013 at Bangalore.
46	Dr. Shyamala	Antenatal corticosteroids in preterm labor.	26.11.2013 Seminar on Quality issues and Accreditation of neonatal health care system, MCON
47	Dr. Pratap Kumar	Management of Tuberculosis in Infertility	December 7, 2013 ICON 2013 Conference (A Women's Center Educational Initiative) at Coimbatore.
48	Dr. Pratap Kumar	Choosing the right Estrogen: does route, dosage and molecule matter?	December 8, 2013 International Conference on "Challenges in Women's Health – New dimensions in the 21st Century (ICCIWH)" at Mumbai
49	Dr. Pratap Kumar	1. Preventing preterm labor 2. Current management intrauterine growth restriction(IUGR)	December 12 – 13, 2013 3 <sup>rd</sup> Infertility conference (Bangkok Gyne & Infertility Symposium) At Pattaya Thailand
50	Dr. Pratap Kumar	Place of Cervical Cerclage today	December 15, 2013 Annual Conference "Gnanavarsha 2013" organized by Bangalore Society of Obstetrics and Gynaecology

**Poster Presented by Postgraduates/Residents**

Sl.No	Postgraduate /faculty	Topic	Event
1.	Dr Shaweez Faizi Dr. MVPai	Correlation of placental location with pregnancy outcome	Dr A Padma Rao memorial Resident Conference on 27th July
2.	Dr Nagraj Dr Prashanth	Outcome of pregnancy with heparin and aspirin combination therapy vs aspirin alone in women with previous two consecutive pregnancy loss	Dr A Padma Rao memorial Resident Conference on 27th July
3	Dr PS Priya Dr Akhila V	Abnormal GTT with normal sugar profile vs Normal GTT & normal GCT; A comparison of neonatal and maternal outcome	Dr A Padma Rao memorial Resident Conference on 27th July
4	Dr Shirisha B Dr Shripad Hebbar	AFI monitoring after 36 weeks how frequently to be done?	Dr A Padma Rao memorial Resident Conference on 27th July
5	Dr Muralikrishnan Dr Anjali M	Thrombocytopenia in pregnancy - Maternal and perinatal outcomes	Dr A Padma Rao memorial Resident Conference on 27th July
6	Dr Pavithra M Dr Lavanya Rai	Autoimmune diseases in pregnancy	Dr A Padma Rao memorial Resident Conference on 27th July
7	Dr Indumathi Dr M V Pai	Peri-partum Hysterectomy- An analysis in tertiary centre	Dr A Padma Rao memorial Resident Conference on 27th July
8	Dr Ambily Dr.Deeksha	Advanced presentation of Carcinoma cervix - a case series	Dr A Padma Rao memorial Resident Conference on 27th July
9	Dr Nilufer Dr Lavanya Rai	Role of uterine artery embolisation in obstetrics and gynaecology	Dr A Padma Rao memorial Resident Conference on 27th July

10	Dr Sinduja B  Dr Sapna V Amin	Unusual puberty problems	Dr A Padma Rao memorial Resident Conference on 27th July
11	Dr Deepa  Dr Lavanya Rai	An audit of Borderline ovarian tumors	Dr A Padma Rao memorial Resident Conference on 27th July
12	Dr Chhavi  Dr Rajeshwari Bhat	Study of cervical polyps	Dr A Padma Rao memorial Resident Conference on 27th July
13	Dr Amruta C  Dr Jayaram	The Need For Radiotherapy After Radical Hysterectomy In Carcinoma Cervix"	Dr A Padma Rao memorial Resident Conference on 27th July
14	Dr Sandya Dr Lavanya	1st prize Poster: Neurological diseases in pregnancy	Dr A Padma Rao memorial Resident Conference on 12th July 2014
15	Dr. Pavithra  Dr Pratap K	Is Perifollicular Vascularity the New Marker for the Assessment of Oocyte and Embryo quality?	ICON2013, Coimbatore 7, 8 th December

### Paper Presented by Postgraduates/Residents

2013			
1	Dr HemaPrasanna  Dr Jayaram	Comparision of paracervical block versus intracervical lignocaine analgesia during dilatation & curettage and manual vacuum aspiration- A randomized study	Dr A Padma Rao memorial Resident Conference on 27th July 2013
2	Dr. P Grishma  Dr. JyothiShetty	Evaluation of adnexal mass by RMI 3	Dr A Padma Rao memorial Resident Conference on 27th July 2013
3	Dr AswathyKumara n Dr Pratap K	The influence of aspiration pressure on the quality of human oocytes retrieved for Invitro fertilization	Dr A Padma Rao memorial Resident Conference on 27th July 2013



4	Dr Barnali Basu Dr Shyamala	Relationship of time interval between antenatal corticosteroid administration to delivery with neonatal complications in premature babies	Dr A Padma Rao memorial Resident Conference on 27th July 2013
5	Nilufer Moideen Dr Lavanya Rai	Labour in medical disorders	Dr A Padma Rao memorial Resident Conference on 27th July 2013
6	Dr Nagraj Dr Prashanth	Comparing Respiratory morbidity in new born delivered by elective c section between 35-39 weeks and beyond 39 weeks	Dr A Padma Rao memorial Resident Conference on 27th July 2013
7	Dr Sinduja B Dr Sapna V Amin	Never miss- Near Miss Audit	Dr A Padma Rao memorial Resident Conference on 27th July 2013
8	Dr Ambily Dr. Deeksha	Correlation of cardiotocography with intra operative findings and perinatal outcome in emergency caesarean delivery	Dr A Padma Rao memorial Resident Conference on 27th July 2013
9	Dr Pavithra M Dr Lavanya Rai	Blood Transfusion in Obstetrics- One year Audit	Dr A Padma Rao memorial Resident Conference on 27th July 2013
10	Dr Muralikrishnan Nambiar Dr Roopa	Down syndrome and its screening - How aware are we?	Dr A Padma Rao memorial Resident Conference on 27th July 2013
11	Dr PS Priya Dr Akhila V	The factors associated with successful vaginal delivery following induction of labour in singleton pregnancy at term	Dr A Padma Rao memorial Resident Conference on 27th July 2013
12	Dr Indumathi H K Dr Prashanth	Placental weight in pre-term deliveries, with and without preeclampsia	Dr A Padma Rao memorial Resident Conference on 27th July 2013
13	Dr Chhavi Dr Rajeshwari	To study maternal and neonatal outcome in prelabour rupture of	Dr A Padma Rao memorial Resident

	Bhat	membranes	Conference on 27th July 2013
14	DrSandya DrLavanya	Paper:How important is BHCG in monitoring ectopic pregnancy?	Dr A Padma Rao memorial Resident Conference on 12th July 2014
15	Dr. Indumathi Dr. Prasanth	Paper:"Predictive value of middle cerebral artery to uterine artery pulsatility index ratio in Hypertensive disorders of pregnancy"	KSOGA conference
16	Dr Taswin Dr.PratapKumar, Dr. Praveena Pai	Oral presentation :Hematocrit as a simple method to predict and evaluate ovarian hyper-stimulation syndrome in assisted reproduction.	23 <sup>rd</sup> OG Society of Malaysia, Petaling Jaya,Malaysia, June2014- First Prize

#### National / Regional(Poster /Paper/Guest lecture/Key notes): 2012

Sl.no.	Title of the presentation	Faculty	Details of the conference
1	Poster "Primary lymphoma of cervix"Paper	Dr.Murlidhar V. Pai	KSOGA conference.19-21 october Belgaum 2012
2	Poster "Comet assay to predict the outcome of premalignant lesions of cervix: A pilot study"	Dr Deeksha	UPCON .20-23 <sup>rd</sup> December Jhansi 2012
3	Guest lecture "Aggressive Management of Preventing Preterm Labour"	Dr Pratap Kumar	Nandad OBG society, Jan 6-8, Nandad2012
4	Guest lecture "Hyperprolactinemia and fertility"	Dr Pratap Kumar	55th All India Congress of Obstetrics & Gynaecology Varanasi & Azamgarh SocietiesVaranasi2012
5	Guest lecture "Practical Management of PCOS"	Dr Muralidhar V Pai	Annual CME Jan 2012, Cochin
6	Guest lecture SLE in pregnancy	Dr Lavanya Rai	34th All Kerala Congress Feb 10th- 12th Chaganacherry2012
7	Urine examination in	Dr Lavanya Rai	34th All Kerala Congress

	pregnancy Guest lecture		Feb 10th- 12th Chaganacherry2012
8	“Role of antagonist in Assisted Reproduction”.Guest lecture	Dr Pratap Kumar	Participated Indian Fertility experts meeting April 14Mumbai2012
9	“Understanding dilemmas of placental hormones – Its therapeutic role”. Guest lecture	Dr Pratap Kumar	Investiture & scientific evening of the Bangalore Society of Obstetrics & GynaecologyApril 15, Bangalore2012
10	“Recurrent endometriosis”. Guest lecture	Dr Pratap Kumar	CME on Endometriosis – Clinical challenges, May 13 Bangalore, 2012
11	“Assisted reproduction clinical aspects.” Guest lecture	Dr Pratap Kumar	Dept of Anatomy, KMC Manipal, 2012
12	“Poor responders in ovulation induction and its management” Guest lecture	Dr Pratap Kumar	CME on “Newer Frontiers in Infertility”. KolkataAugust 5, 2012
13	“Diagnosis and management of adnexal masses – a dilemma in Guest lecture clinical practice”.	Dr Pratap Kumar	15 <sup>th</sup> Annual Conference NMOGS (Updates 2012)Navi Mumbai
14	“Assessing the Infertile patient on cycle Day 02/03 Follicular Monitoring Guest lecture	Dr Pratap Kumar	National Fetal Medicine & Infertility Conference Ahmedabad2012
15	Guest lecture 1)Understanding Physiology of Ovulation for better success in Ovulation Induction 2) Simplified Patient focused approach for Infertility Management	Dr Pratap Kumar	INFERTILITY CON – 2012 (Second Infertility Update) Lucknow2012
16	“Perils and pitfalls of twin delivery” Guest lecture	Dr.Murlidhar V. Pai	KSOGA conference Belgaum2012
17	“Foetal origin of adult Heart Disease” Guest lecture	Dr Pratap Kumar	Manipal Cardiology Update – 2012

18	“Poor responders and their management”. Guest lecture	Dr Muralidhar V Pai	UPDACON Lucknow 2012
19	“How important is the co-ordination between team members?” Guest lecture	Dr Pratap Kumar	Attended National Symposium and Workshop on “Best practices in clinical embryology” at Manipal. Organized by Clinical Embryology, KMC Manipal 2012
20	DrS N Upadhyay oration lecture on “Seven pillars of wisdom in Assisted Reproduction”	Dr Pratap Kumar	BOGSCON-2012 Obstetrics & Gynaecology Society of Patna December 8 – 9, 2012
21	“Recurrent endometriosis”. Guest lecture	Dr Pratap Kumar	OBG Society of Panaji, December 22, 2012 Goa
22	“Evidence based evaluation of infertile couple”. Guest lecture	Dr Pratap Kumar	Tamilnadu & Pondicherry Chapter of Indian Society for Assisted Reproduction (TAPISAR 2012) December 23, Chennai
23	"CIN in young women: Management & future" Guest lecture	Dr.Deeksha Pandey	UPCON 20 - 23rd of December Jhansi 2012
24	“Estrogen therapy in gynaecology”. Guest lecture	Dr Pratap Kumar	Award functions of the journal of Indian Obstetrics & Gynaecology October 3,2012, New Delhi
25	“Seven pillars of wisdom in Assisted Reproduction” Guest lecture	Dr Pratap Kumar	Karnataka State Obstetrics & Gynaecological Congress (KSOGA 2012) Oct 19 – 21 <sup>st</sup> Belgaum

2014

## Paper presentations

Sl.No	Faculty	Paper Title	Event
1	Dr. Shripad Hebbar	“Significance of Maternal and Foetal Cord Blood NRBC counts in Preeclampsia”	57 <sup>th</sup> AICOG conference, held at <b>Patna</b> , held between Feb 1 <sup>st</sup> - 5 <sup>th</sup> Feb, 2014.
2	Dr Sapna Vinit Amin	Correlation of umbilical cord circumference and birth weight"	ISOPARB 2014 Pune from 14th to 16 th March, 2013
3	Dr Anjali suneel	Liver Disease in pregnancy- A life threatening condition for mother and baby	World Congress 2014 held at Hyderabad, India from 28-30th March.
4	Dr. Shyamala G	Applicability of ReCoDe classification of still births and its modification in clinical practice	ISOPARB 2014 Pune from 14th to 16 th March, 2014
5	Dr. Shyamala G	'Women with cancer cervix on chemoradiation: How good is the tolerance? '	Advances 2014 conference at trivandrum on 16th and 17th a august
6	Dr.Jyothi shetty	Discrimination between benign and malignant adnexal masses by RMI versus ultrasound pattern recognition	FIGO-SAFOG- SLCOG 2nd NOV Colombo

**POSTER PRESENTATIONS:**

Sl.No	Faculty	Poster Title	Event
1	Dr Sapna Vinit Amin	Amenorrhoea at the age of 50 years! I swear Swyer	World Congress 2014 held at Hyderabad, India from 28-30th March.
2	Dr. Roopa PS	Fetal outcome in SAMM-timely intervention saves lives!	World Congress 2014 held at Hyderabad, India from 28-30th March.
3	Dr. Latha	Sertolileydig cell tumor of ovary with heterologous component and raised alphaprotein –case report	World Congress 2014 held at Hyderabad, India from 28-30th March.
4	Dr. Praveena Pai	Does heparin make a difference in	World Congress 2014 held

		assisted reproduction? Experience from Assisted conception unit at a teaching hospital in South India	at Hyderabad, India from 28-30th March.
5	Dr. Vidyashree G Poojari	Ruptured endometriotic cyst presenting as acute abdomen with elevated Ca- 125	World Congress 2014 held at Hyderabad, India from 28-30th March.
6	Dr. Vidyashree G Poojari	A rare case of IVF conception in myasthenia gravis with endometriosis	World Congress 2014 held at Hyderabad, India from 28-30th March.
7	Dr. Akhila	'Fetal intracranial tumor'-report of 3 cases	World Congress 2014 held at Hyderabad, India from 28-30th March.
8	Dr. Pratap	"Maintaining morphological characteristics of the endometriotic cystectomy tissue by good technique for good ovarian reserve"	30 April – 3 May 2014 – Attended the 12 <sup>th</sup> World Congress on Endometriosis in Sao Paulo, Brazil.
9	Dr. Akhila	" Increasing incidence of Postcesarean hematoma and intra abdominal sepsis - A cause for concern".	" Obstetric Medicine Update" at Hyderabad on the 3rd and 4th of October
10	Dr. Akhila	" Multiple fetal malformations - How far does evaluation help?"	CUSP 2014" between 25th to 28th of Sept 2014, chennai
11	Dr. Shyamala	'Indication-based cesarean audit- an experience'	FIGO South Asia Congress 2014 at Colombo from 31 <sup>st</sup> October to 2 <sup>nd</sup> November 2014.
12	Dr. Deeksha Pandey	<p>"Highest Ever CA125: yet 'Look before you Leap'!"</p> <p>"IS IT WORTH PRESERVING THE UTERUS? Risk of missing a malignancy in pelvic organ prolapse (POP)."</p>	International Gynecological Cancer Society (IGCS) conference 2014 in Melbourne Australia (7th to 11th November)

13	Dr. Muralidhar Pai	Response to chemotherapy in patients with gestational trophoblastic neoplasia and subsequent fertility	World Cancer Congress, Melbourne, Australia, Dec 2014
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**Guest Lectures/ Panel discussions/ Chairing sessions/ Key note address/ oration**

Sl.No	Faculty	Guest lecture Topic	Event (Date/ Venue)
1	Dr Pratap Kumar	Hydrosalpinges and assisted reproduction	19 <sup>th</sup> National conference of Indian Society for Assisted Reproduction at Ahmedabad on February 14 – 16, 2014
2	Dr Muralidhar V Pai	Moderated a Panel discussion on "partogram"	CME on Abnormal labor held at Davanagere Feb 22, 2014
3	Dr. Shripad Hebbar	"Premalignant lesions of endometrium"	57 <sup>th</sup> ACOG conference, held at <b>Patna</b> , held between 1 <sup>st</sup> Feb and 5 <sup>th</sup> Feb, 2014.
4	Dr. Shripad Hebbar	Panel member: "Partographic Management of Normal and Abnormal Labour" in CME on "Abnormal Labour"	CME on "Abnormal Labour" organised jointly by JJ Medical College, <b>Davanagere</b> , SJ Medical College, Davanagere and DVG (Davanagere) Obstetrics and Gynaecology Society on 22 <sup>nd</sup> Feb
5	Dr Pratap Kumar	A lecture on "Women's Health"	at the Symposium, organized by Manipal College of Nursing, Manipal.
6	Dr Sapna Vinit Amin	panelist on Topic "Intrauterine growth restriction"	ISOPARB 2014 Pune from 14 <sup>th</sup> to 16 <sup>th</sup> March, 2013
7	Dr. Shyamala G	Panel Discussion- Fetal monitoring	ISOPARB 2014 Pune from 14 <sup>th</sup> to 16 <sup>th</sup> March, 2014



8	Dr Pratap Kumar	“How to do Ovulation Induction in Low Weight Individuals”	April 4 – 6, 2014 - The 5 <sup>th</sup> Congress of the Asia Pacific Initiative on Reproduction (ASPIRE) at Brisbane, Australia.
9	Dr. Pratap	<p>Chaired session on</p> <p>1. Beyond the good prognosis patient: extended culture increases live birth rates for patients, regardless of quality and quantity of embryos on day 3</p> <p>2. The impact of maternal body mass index on implantation rates from euploid frozen embryo</p>	April 4 – 6, 2014 - The 5 <sup>th</sup> Congress of the Asia Pacific Initiative on Reproduction (ASPIRE) at Brisbane, Australia.
10	Dr. Pratap Kumar	Oration lecture on “What to do & what not to do in preventing preterm labour and management”.	April 19-20, 2014 – 29 <sup>th</sup> POGS CME – Impetus 2014 at Pune
11	Dr. Murlidhar Pai	Guest lecture: management of pain in Endometriosis	GESICON Conference held at Delhi April 25 - 27, 2014
12	Dr. Pratap Kumar	Guest lectures on “Optimizing results in ART & Thin Endometrium unleashing the new horizon”	May 24, 2014 – International Conference on Reproduction, Fertility & Surrogacy at AIIMS New Delhi.
13	Dr. Pratap Kumar	Panel member for session on “Male Infertility – Evidence based management	May 24, 2014 – International Conference on Reproduction, Fertility & Surrogacy at AIIMS New Delhi.
14	Dr. Murlidhar Pai	Lecture on "Physiology of Ovulation Induction”	ICOG CME held at Calicut May 17, 2014
15	Dr. Murlidhar Pai	Lecture on "tackling ovulation induction in endocrinological disorders	ICOG CME held at Calicut May 17, 2014
16	Dr. Murlidhar Pai	Lecture on "Physiology of	ICOG CME held at Kochi

		Ovulation Induction”	May 18, 2014
17	Dr. Murlidhar Pai	Lecture on "tackling ovulation induction in endocrinological disorders	ICOG CME held at Kochi May 18, 2014
19	Dr. Murlidhar Pai	Lecture on "Hypertensive disorders when do they become high risk Progress Myanmar May 31, 2014	Progress Myanmar May 31, 2014
20	Dr. Murlidhar Pai	Lecture on "Peripartum hysterectomy pitfalls and procedure at Progress Myanmar May 31, 2014	Progress Myanmar May 31, 2014
21	Dr Pratap Kumar	Guest lectures on a) Interpreting laboratory results in Infertility practice b) Tips and Tricks to improve your IUI success rates.	.June 5-8, 2014 – 23 <sup>rd</sup> Malaysian Congress of Obstetrics &Gynaecology at Kaula Lumpur, Malaysia
22	Dr. Pratap Kumar	Guest lecture on “Choosing estrogen molecule from adolescence to menopause”.	June 14, 2014 – CME organized by Indore Obstetrics &Gynaecology Society of FOGSI at Indore.
23	Dr. Pratap Kumar	Guest lecture on “Evidence based management of Endometriosis in Infertility &Assisted Reproduction“.	June 28, 2014 – Conference IAGE Beyond the silver line 2014.
24	Dr Muralidhar V Pai	Guest lecture on Hypertensive disorders, when do they become high risk	Progress Myanmar 2014 conference, held at Yangon, Myanmar May 31 - Jun 1, 2014
25	Dr Muralidhar V Pai	Peripartum hysterectomy, pitfalls and procedure	Progress Myanmar 2014 conference, held at Yangon, Myanmar May 31 - Jun 1, 2014
26	Dr Muralidhar V Pai	Chaired a session on "Screening guidelines"	Yuva FOGSI conference held at Mysore, Jun 7, 2014
27	Dr Muralidhar V Pai	Moderated a Panel discussion on "Induction of ovulation"	Yuva FOGSI conference held at Mysore, Jun 7,

			2014
28	Dr. Shyamala G	panelist in the panel discussion at the Transfusion medicine CME	Transfusion medicine CME at Kasturba Medical College, Manipal on 6th June 2014
29	Dr. Lavanya Rai	- Maternal Age and pregnancy outcome	Chennai - 14th International conference on Dilemmas, Controversies and Challenges in Subfertility, Obstetrics & gynecology
30	Dr. Lavanya Rai	Panel discussions 1 Evidence based assessment and management in Pregnancy 2 Risk Management in Obstetrics	Chennai - 14th International conference on Dilemmas, Controversies and Challenges in Subfertility, Obstetrics & gynecology
31	Dr. Lavanya Rai	Case Discussions 1 - Multiple pregnancy 2 Gestational Trophoblastic diseases 3 SLE with Secondary APLA in Pregnancy	August 25th Trichur FOCUS 2014 All India PG training program
32	Dr Pratap Kumar	Guest lecture on "How to interpret blood reports in infertility".	August 2, 2014 – CME organized by Palghat Obstetric & Gynae Society, Kerala
33	Dr Pratap Kumar	Guest lectures on a) Improvements in diagnosing trouble shooters for success in Infertility management b) Premature ovarian failure	"ADVANCES 2014 – the Fifteenth Annual International Congress in Obstetrics, Gynaecology & Reproductive Medicine" at Trivandrum, Kerala.
34	Dr Pratap Kumar	Panel member for session on "Case Scenarios in Infertility practice"	"ADVANCES 2014 – the Fifteenth Annual International Congress in Obstetrics, Gynaecology & Reproductive Medicine" at Trivandrum, Kerala.

35	Dr Pratap Kumar	Guest lecture on "Choosing the right estrogen - Does molecule / Dose / Route matters.	August 23, 2014 – CME organized by Mumbai Special Interest Group in Obstetrics &Gynaecology, Mumbai.
36	Dr Pratap Kumar	Two case discussions on Infertility and Previous caesarean section 2. Gave a lecture on "Assisted Reproductive Technology" 3. Grand rounds	August 25 – 29, 2014 – Attended All India PG Training Programme "FOCUS 2014" at Thrissur, Kerala.
37	Dr. Muralidhar Pai	Guest lecture on "Management of pregnancy in women with PCOS"	Advances 2014 conference at trivandrum on 16th and 17th a august
38	Dr. Muralidhar Pai	Guest Lecture on "Management of pain in Endometriosis"	Advances 2014 conference at trivandrum on 16th and 17th a august
39	Dr. Muralidhar Pai	Guest lecture on "Should all cysts be removed before IVF"	International conference on Recent Advances in Gynecological Endoscopic
40	Dr Pratap Kumar	Guest lecture on : Serum Anti-Müllerian hormone as a marker for acute and long term effects of chemotherapy on ovarian reserve.	September 6 – 7, 2014 – First Annual Conference of the 'Fertility Preservation Society' of India at New Delhi.
41	Dr Pratap Kumar	Guest lecture on "Interpreting lab results in Infertility"	September 10 -14, 2014 – Attended Gynae-Infertility Symposium at Hong Kong.
42	Dr Pratap Kumar	Endowment Guest lecture on "Choosing infertile male for Assisted Reproductive techniques	Sept 13-14, 2014 – Attended KUACON 2014, Annual conference of Karnataka Urology Association at Bangalore.
43	Dr Pratap Kumar	Guest lecture on "Understanding pelvic floor for better management"	September 13 – 14, 2014 – Attended the Annual Conference of Bangalore Society of Obstetrics &Gynaecology at

			Bangalore
44	Dr Pratap Kumar	Panel member for session on “Managing the infertility male”	Annual Meeting of American Society for Reproductive Medicine at Hawaii, USA from 18 – 22 October, 2014
45	Dr Pratap Kumar	Guest lectures on 1. “Tips and tricks of ovulation induction for successful outcome” 2. Impact of different controlled ovarian stimulation protocols on the physical and psychological burdens in women undergoing IVF/ICSI in an Indian population	FIGO-SAFOG SLCOG 2014 conference at Colombo, Sri Lanka from 30 <sup>th</sup> October & 2 <sup>nd</sup> November 2014.
46	Dr Pratap Kumar	Chaired a session on “Improving outcome of medically complicated pregnancies”	FIGO-SAFOG SLCOG 2014 conference at Colombo, Sri Lanka from 30 <sup>th</sup> October & 2 <sup>nd</sup> November 2014.
47	Dr Muralidhar V Pai	Guest lecture on "Role of biomarkers in optimizing the ovulation induction"	Insight International Conference held at Coimbatore Oct 10 - 11, 2014
48	Dr Pratap Kumar	Panel member for session on “Luteal phase defect”.	Annual conference of the journal of Indian Obstetrics & Gynaecology at New Delhi, . November 8, 2014
49	Dr Pratap Kumar	Guest lecture on “Ovulation induction in ART cycles”	November 16, 2014 – Attended the CME on “Focussed Symposium on PCOS Evidence Based Management Strategies from Adolescence to Menopause”. Organized by IMA Udupi Karavali, Manipal OBG Society & KISAR (Karnataka Chapter of ISAR) at Udupi.

50	Dr Pratap Kumar	Guest lecture on “Thyroid&Hyperprolactemia”	November 21-23, 2014 – Attended Fertility Enhancement & Management Conference 2014. Organized by Indian Society for Assisted Reproduction at Mumbai.
51	Dr. Lavanya Rai	Guest lecture on “PPROM”	at "Protocols conference" at Pune Nov 30th
52	Dr. Muralidhar Pai	Guest lecture on "Twin delivery”	25th KSOGA Conference at Gulbarga Nov 28 <sup>th</sup> 2014
53	Dr. Muralidhar Pai	Guest lecture on "Severe preeclampsia"	"Protocols conference" at Pune Nov 30 <sup>th</sup> , 2014
54	Dr. Muralidhar Pai	Guest lecture on " Management of PCOS pregnancy”	"PCOS UPDATE" at Udupi Nov 16 , 2014
55	Dr. Shymala	Chaired session on 'PCOS in adolescents'	16 <sup>th</sup> November 2014 at PCOS UPDATE: a CME in Udupi
56	Dr Shripad Hebbar	chaired a session on "Management Strategies in PCOS"	"PCOS – EVIDENCE BASED MANAGEMENT FROM ADOLESCENCE TO MENOPAUSE" jointly organised by Manipal OBG Society & KISAR, at Hotel Sharada International, Udupi on 16 <sup>th</sup> November, 2014.
57	Dr Sapna Amin	Chaired session, Ovulation induction in non ART cycles.	16 <sup>th</sup> November 2014 at PCOS UPDATE: a CME in Udupi
58	Dr Lavanya Rai	Guest lecture on Understanding the adolescent PCOS- A multifaceted task	16 <sup>th</sup> November 2014 at PCOS UPDATE: a CME in Udupi
59	Dr PratapKumar	Guest lecture on induction in ART cycles	16 <sup>th</sup> November 2014 at PCOS UPDATE: a CME in Udupi
60	Akhila Vasudev	Guest lecture on Role of <b>Dr</b>	16 <sup>th</sup> November 2014 at

		adjuvants	PCOS UPDATE: a CME in Udupi
61	Dr Jayaram	Guest lectureDermatologic implications of PCOS	16 <sup>th</sup> November 2014 at PCOS UPDATE: a CME in Udupi
62	Dr Pratap Kumar	Oration on “Interpretation of laboratory investigation in infertility”.	December 12-13, 2014 at Madurai Obstetrics & Gynaecology society at Madurai
63	Dr Shripad Hebbar	Guest lecture on "HPV vaccine and Ca cervix prevention: Present and Future role	CME ON "ADVANCES IN GYNAEC ONCOLOGY-2014" organised by Department of Radiotherapy, KMC Manipal, at ShirdiSaibaba Cancer Hospital, Manipal on 20th December, 2014

#### Workshops attended:

##### 1) Dr. Shyamala:

Attended workshop on 'Focused Endoscopy' in Dharwad on 12th Jan 2014

##### 2) Dr. Prasanth Adiga

Attended workshop on fetal medicine in New Delhi, 24-27 th march at AIIMS

##### 3) Dr. Jayaraman Nambiar

Attend the Live workshop on Robotic surgery and master class in gYnae oncology at Manipal Hopsital Bengaluru on 14 and 15 th of Sept 2014

##### 4) Sapna Vinit Amin

- Attended Workshop and International Conference “Fertility Enhancement Management” between 21<sup>st</sup> to 23<sup>rd</sup> November, 2014 at Mumbai.
- Participated in “Nagpur Hysteroscopy Carnival” held on 29<sup>th</sup> – 30<sup>th</sup> November, 2014.

##### 5) Dr. Vidyashree G Poojari

Attended

- 1) CME "Manipal genetic update" , conducted by the department of medical genetics, KMC Manipal on December 7th, 2014.



**Poster Presented by Postgraduates/Residents**

Sl.No	Postgraduate /faculty	Topic	Event
1.	<b>Dr Simar Kaur</b> Dr.Deeksha	Hysterectomy for dysfunctional uterine bleeding - How far were we justified?	Dr.Padma Rao Memorial
2.	<b>Dr Caroline R Mathias</b> Dr.Jayaram	Postmenopausal bleeding- analysis of incidence, causes, diagnosis & management	Dr.Padma Rao Memorial
3	<b>Dr.Jijisha Ali</b> Dr.Roopaa	Correlation of laparoscopic management of adnexal masses with clinical examination and ultrasound	Dr.Padma Rao Memorial
4	<b>Dr Shilpa Gupta</b> Dr.Prashanth	Accuracy of prenatal diagnosis of congenital heart disease by Fetal Echo	Dr.Padma Rao Memorial
5	<b>Dr Harshita Pandey</b> Dr.Hebbar	3D Doppler characteristics of endometrium in abnormal uterine bleeding	Dr.Padma Rao Memorial
6	<b>Dr Tella Kiramani</b> Dr.Shyamala	Documentation for indication of cesarean deliveries	Dr.Padma Rao Memorial
7	<b>Dr.Sandya</b> Dr.Lavanya	How usual is unusual neurological disorders in pregnancy?	Dr.Padma Rao Memorial
8	<b>Dr.Taswin Kaur</b> Dr.Pratap Kumar	Predictive value of day -14 BHCG in IVF/ICSI pregnancies	Dr.Padma Rao Memorial
9	<b>Dr.Leena M N</b> Dr.Muralidhar V Pai	Ovarian carcinoma – An audit in a tertiary setup	Dr.Padma Rao Memorial
10	<b>Dr.Preethi D S</b> Dr.Jayaram N	Epidural analgesia in labour	Dr.Padma Rao Memorial
11	<b>Dr.Sindu</b> Dr.Jyothi Shetty	Pituitary adenoma – clinical scenario	Dr.Padma Rao Memorial
12	<b>Dr.Sreevidya</b> Dr.Akhila	Evaluation of clinical profile and TVS findings among patients presenting with chronic pelvic pain to gynecological OPD	Dr.Padma Rao Memorial postgraduate update

## Paper Presented by Postgraduates/Residents

Sl.No	Postgraduate /faculty	Topic	Event
1.	<b>Dr Taswin</b> Dr.Pratap Kumar,Dr. Praveena Pai	Hematocrit as a simple method to predict and evaluate ovarian hyper-stimulation syndrome in assisted reproduction. <b>Won First Prize</b>	23 <sup>rd</sup> OG Society of Malaysia, Petaling Jaya, Malaysia, June2014-
2.	<b>Dr. Preeti</b> Dr.Jayaram Nambiar	Platelet estimation in preeclampsia and its significance <b>Won First Prize</b>	25th KSOGA Conference, Gulbarga, November 28, 2014
3	<b>Dr.Leena M N</b> Dr.Muralidhar V Pai	Comparison of length of 1 <sup>st</sup> stage of labour to the effect of 2 <sup>nd</sup> stage of labour	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
4	<b>Dr.Sindu</b> Dr.Jyothi Shetty	Retro placenta clot weight in abruption fetal outcome	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
5	<b>Dr.Sreevidya</b> Dr.Akhila	EFW between 10-35% as screening tool to predict SGA neonates	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
6	<b>Dr.Sandya</b> Dr.Lavanya Rai	How important is BHCG in the management of ectopic pregnancy?	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
7	<b>Dr.Tella Kiramani</b> Dr.Shyamala	Knowledge attitude practice study (KAP study) techniques breast feeding among postnatal mother	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
8	<b>Dr.Harshita Pandey</b> Dr.Hebbar	Quality of life following TVT repair	Dr.Padma Rao Memorial postgraduate update Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
9	<b>Dr.Shilpa Gupta</b> Dr.Prashanth	Can Sonographic depiction of fetal head position prior to or at the onset of labor predict mode of delivery??	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
10	<b>Dr.Jijisha Ali</b> Dr.Roopa	Assessment of new born from 26 to 34 weeks of gestation and their neonatal outcome	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014
11	<b>Dr.Caroline R</b>	Risk predictors for propensity	Dr.Padma Rao Memorial

	<b>Mathias</b> Dr.Jayaram	towards peripartum depression in tertiary health care center – South Karnataka	postgraduate update 12 <sup>th</sup> July 2014
12	<b>Dr.Simar Kaur</b> Dr.Deeksha	Banking cord blood stem cells; awareness, attitude & expectations among pregnant women in India	Dr.Padma Rao Memorial postgraduate update 12 <sup>th</sup> July 2014

## 12. Placement record of the past students and the contribution of the department to aid studentplacements

Nil

## 13. Plan of action of the department for the next five years: In next five years the aim of our department is to excel in all the three basic themes

We want to excel in

1. Patient centered effective quality care
2. Education—Learn while teaching and teach while learning
3. Innovative, initiative, evolving medical education related research

**Patient care:** We wish to extend much more benefits to the women with regards to obstetrical and gynecological health care. The department's plan of action is to help the college in implementing its strategic plan to start subspecialty clinics. We have plans to upgrade our existing superspecialties like reproductive medicine, prenatal diagnosis and fetal medicine, and gynecological oncology. We also aim to initiate few new clinics like menopause clinic, preventive gynecological oncology clinic, urogynecology clinic, pelvic floor medicine clinic, endoscopy clinic, geriatric clinic, adolescent clinic, preconception clinic, postpartum mental health clinic, family planning and reconstructive surgery clinics. Creating awareness and providing education and touching lives of many hearts – for this we can organize free camps, education classes (Cancer cervix screening, adolescent health including safe sex, common medical problems, etc)

In OPDs by media, posters, charts, leaflets, etc

In hospital care by protocols and guidelines in management of patients.

Delegating appropriate duty to apt staff, recognizing their skills, merits, talents and strengths.

Believing in” one body- one mind” and carrying out TEAMWORK”

Channelizing patient care like High risk pregnancy, fetal therapy, Infertility, cancer prevention, geriatric care, etc to the specialized, sub specialized, experienced and expert personnel.

**B) Teaching:** We intend to improve our undergraduate, nursing staff, as well as postgraduate teaching. We have plans to start DM course in Reproductive Medicine. We aim to have more and more integrated teaching programs for our students in collaboration with other departments and institutions.

We intend to train our junior team members to get trained in ultrasonography, which has become an extension of clinical examination, both in obstetrics and gynecology, not to mention about its immense role in the field of reproductive medicine, which with wonderful infrastructure, already doing wonders in our department.

By dedicated staff conducting drills, skills and adhering to local treatment protocols, which are in par with evidence based, standardized internationally accepted managements. There is no end to learning, as knowledge is like an ocean, hence we plan to conduct continued medical education(CMEs), workshops, conferences, trying not only to help our students, but also to make aware of neighboring colleges and colleagues

**C) Research:** As the global demand we are planning to put more thoughts and efforts in research in times to come. We are planning to collaborate more and more with national and international agencies for research, wherein we would like to involve our students too. We are also exploring new avenues of training and fellowships in clinical and basic research. We also plan to establish Centre of excellence in different areas of embryology.

Treat, teach, train, retrain, retain the title, transform timelessly is our theme.

Setting a goal and reaching for it, is a specialty of mankind.

So we aim for, Caring, Coaching and Creating **locally**, so as to be the positive , progressive part **nationally** ,finding recognition **globally and** excelling **infinitively**.

## ORTHOPAEDICS

### 1. Faculty profile – adequacy and competency of faculty

There are fifteen teaching faculty which meets the requirement for MBBS and for postgraduate training as per the regulatory body requirements. All faculties are competent.

#### Faculty list

Sl. No	Name	Qualification	Designation	Teaching experience in years
1	Dr Anil K.Bhat	MBBS, MS, DNB	Professor & Head	13
2	Dr.S.P.Mohanty	MBBS, MS	Professor	32
3	Dr.SharathK.Rao	MBBS, MS	Professor	24
4	Dr.Kiran Kumar VAcharya	MBBS, MS	Professor	16
5	Dr ShyamasunderBhat N.	MBBS, MS, DNB	Professor	13
6	Dr Hitesh H Shah	MBBS, MS	Assoc. Prof.	11
7	Dr MonappaNaik A	MBBS, DNB	Assoc. Prof.	11
8	Dr VivekPandey	MBBS, MS	Assoc. Prof.	10
9	DrAshwathAcharya	MBBS, MS	Assoc. Prof.	7
10	Dr SandeepVijayan	MBBS, MS	Assoc. Prof.	6
11	Dr.RaghurajKundangar	MBBS, MS	Asst. Prof.	2
12	Dr.Krishna Prasad P R	MBBS, MS	Asst. Prof.	2
13	Dr Kumar Amerendra Singh	MBBS, MS	Asst. Prof.	< 01
14	Dr.Nishanth A	MBBS, MS	Asst. Prof.	<01
15	Dr Shaji P.K.	MBBS, MS	Asst. Prof.	<01
16	Dr.Amrath Raj	MBBS, MS	Senior Resident	<01
17	Dr.SandeshMadi	MBBS,MS	Senior Resident	<01
18	Dr VinayKamble	MBBS,MS	Senior Resident	<01
19	Dr,MaheshKulkarni	MBBS,MS	Senior Resident	<01
20	Dr.Naveen Joseph Mathai	MBBS,MS	Senior Resident	<01
21	Dr Imthias V.K.	MBBS,MS	Senior Resident	<01
22	Dr Karthikeyan	MBBS,MS	Senior Resident	<01
23	Dr.PrajwalPrabhudev	MBBS	Junior Resident	-
24	Dr.Vipin Mohan	MBBS	Junior Resident	-
25	Dr.SandeepTapashetti	MBBS	Junior Resident	-

26	Dr.Vijay Shankar	MBBS	Junior Resident	-
27	Dr.SourabShetty	MBBS	Junior Resident	-
28	Dr.VikrantKhanna	MBBS	Junior Resident	-
29	Dr.HarshaKyalakond	MBBS	Junior Resident	-
30	Dr.Vishnu S.	MBBS	Junior Resident	-
31	Dr.Kiran Kumar M	MBBS	Junior Resident	-
32	Dr.NaufalNahas	MBBS	Junior Resident	-
33	Dr.Deepankar	MBBS	Junior Resident	-
34	Dr.VarunRao	MBBS	Junior Resident	-
35	Dr.SravanchandarDutta	MBBS	Junior Resident	-
36	Dr.Vikas Kumar	MBBS	Junior Resident	-
37	Dr.Joseph C.J.	MBBS	Junior Resident	-
38	Dr.Jampani Ravi Theja	MBBS	Junior Resident	-
39	Dr.N.AdityaSekhar	MBBS	Junior Resident	-
40	Dr.Vamshinath P.	MBBS	Junior Resident	-
41	Dr.Sujayendra D.M.	MBBS	Junior Resident	-
42	Dr.ChavaSatyaprasad	MBBS	Junior Resident	-
43	Dr.SwamiVivekanandHar	MBBS	Junior Resident	-
44	Dr.RaghavendraR.Vyas	MBBS	Junior Resident	-
45	Dr.NachiketaKamleshbhai	MBBS	Junior Resident	-
46	Dr.Chethan Kumar	MBBS	Junior Resident	-
47.	Dr.MonishMalhotra	MBBS	Junior Resident	-
48	Dr.SiddarthKamath K.	MBBS	Junior Resident	-
49	Dr.Rohit Reddy	MBBS	Junior Resident	-
50	Dr.Mohd.SuhaibMudabbir	MBBS	Junior Resident	-
51	Dr.Sheikh Mohammed	MBBS	Junior Resident	-
52.	Dr.RaviTheja Reddy	MBBS	Junior Resident	-
53	Dr.AdityaLakhotia	MBBS	Junior Resident	-
54	Dr.BasaniSaiViksheth Raj	MBBS	Junior Resident	-
55	Dr.DeepthiParaj	MBBS	Junior Resident	-
56	Dr.KrunalYogesh	MBBS	Junior Resident	-

Category	Sanctioned	Filled
Teaching staff	15	15
Senior Residents	08	08
Junior Residents	35	34

**2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.**

Please refer Annexure No. HS 1 for details

**3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes.**

UG: Introduction of log book, OSCE for internal assessment, Demonstration classes for clinical cases, small group teaching and seminars

PG: Classes including case presentations, seminars, journal club, Log book, Attendance & presentation of papers at State/National conference, one publication to be sent before examination, Anatomy dissection, Clinico Pathology meeting.

Faculty class, preliminary PG quiz before state conference.

**4. Trends in the success and drop-out rates of students during the past two years.**

Course	Pass Percentage			Dropout rate		
	2012	2013	2014	2012	2013	2014
M.S.Ortho	60	100	83	0	0	0
D’Ortho	100	100	100	0	0	0

**5. Learning resources of department – Library, computers, laboratories and other resources.**

- Health sciences library which is an online library connected to the university web portal with access to numerous books, journals and other learning resources
- There are two air conditioned demonstration rooms equipped with audiovisual aids with Projector for teaching postgraduates and undergraduates.
- Departmental library of about 100 books for the use of the faculty and postgraduates.
- All faculty members have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 12 desktop computers complete with multi-functional printers.
- Departmental museum with specimens, implants etc.



**6. Modern teaching methods practiced and use of ICT in teaching – learning:**

UG: Interactive lectures, small group teaching, Case demonstration.

PG: Seminars, clinical case discussion, Journal club, Hands on Workshops, Conference and

PG training programme, Anatomy dissection & Clinico Pathology meeting.

**7. Participation of teachers in academic and personal counseling of students.**

Through various classes conducted and feedback after these classes

**8. Details of faculty development programmes and teachers who have been benefitted during the past two years.**

Medical education ATCOM and Pedagogic workshops, MCI teachers training programme

**9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research.**

Classes and seminars conducted by faculty, various specialty clinics for patients and publication and research work through postgraduate dissertation, PhD and funded projects

**10. Collaboration with other departments/institutions, at the State, National and International levels and their outcome during the past two years.**

Various postgraduate and PhD projects with inter departmental collaboration and publications with international authors (annexure)

**11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during the past two years:**

**Ongoing:**

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	2
PG research projects	18
UG research projects	0

**Last 3 years (2012-2014):**

	2012	2013	2014
Completed funded research projects	0	0	0
Completed non-funded research projects	0	0	0

Completed PhD research projects	1	1	0
Completed PG research projects	6	6	9
Completed UG research projects	1	0	0
Publications-International	19	12	11
-National	1	4	2
Chapters in books	0	0	1
Conference presentations- International	3	6	1
-National	31	18	32

### Ongoing PhD Research projects:

Sl.No.	Title	Name of the student	Name of the guide
1	Effectiveness of extended infection control measure on MRSA infection for Orthopaedic Surgery patients	Dr.Latha T.	Dr.AnilK.Bhat
2.	Numerical investigation of anterior cruciateligment (ACL) reconstruction in human knee joint.	Mr.BharathK.Bhat	Dr.KiranK.V.Acharya
3.	"Numerical Investigation of Meniscal tears and the effects of meniscectomies on secondary degenerative arthritis"	Mr.AshwinDevaraj	Dr.KiranK.V.Acharya

### Ongoing PG Research Projects:

2012

Sl.No.	Title	Name of the student	Guide
1	Plain & Dynamic radiography,MRI, MRA in the evaluation of chronic wrist pain	Dr.BlessinS. Cherian	Dr.AnilK.Bhat.
2	Arthrolysis in a stiff elbow	Dr.SrinivasRao Polisetty	Dr.AnilK.Bhat
3	Outcome evaluation of DDH in children after walking age group treated with open reduction with femoral or pelvic Osteotomy.-	Dr.Aravinth T	Dr.Hitesh Shah
4	Outcome analysis of antibiotic	Dr.PatelKrunal	Dr.Shyamasunder Bhat

	loaded PMMA beads in musculoskeletal infections – A Retrospective Cohort study.	Hasmukhbhai	N.
5	Radiological evaluation of placement of femorotibial foot print of ACL in three technique ACL reconstruction.	Dr.Sagar V	Dr.KiranAcharya
6	Evaluation of association of the radiological Morphology of acromion &oracoids with rotator cuff tear – A Prospectove clinical study	Dr.DeepuVijayan	Dr.VivekPandey.
7	Outcome evaluation of epiphysiodesis of lower limb in children	Dr.Jayakrishnan	Dr.Siddesh N.D.
8	Comparative study of DHS+TSP with proximal femoral nailing in unstable intertrochanteric fracture	Dr.KarnatiJagan Mohan Reddy	Dr.MonappaNaik A.
9	Natural history of curve progression of congenital scoliosis.	Dr.Praveen Reddy	Dr.S.P.Mohanty

**2013**

Sl.No.	Title	Name of the student	Guide
1	Role of USG versus MRI morphology in determining the surgical method of carpal tunnel release.-A randomized prospective single blind study.	Dr.Prajwal Prabhudev Mane	Dr.AnilK.Bhat
2	Long term outcome and evaluation of children with cerebral palsy walking with crouch gait treated by femoral shortening and patella placcation.	Dr.Vipin Mohan	Dr.Hitesh Shah
3	Outcome evaluation of septic arthritis of hip in infants treated by arthrotomy.	Dr.Sandeep Tapashetti	Dr.Hitesh Shah
4	Evaluation of core decompression and core decompression with fibular strut grafting in avascular necrosis of	Dr. Vijay Shankar	Dr.S.P.Mohanty

	femoral head.		
5	Analysis of post discectomy patient with recurrent back ache with or without radiculopathy.	Dr.Sourab Shetty	Dr.Shyamasundar Bhat N.
6	Clinical outcome assessment of combined tear of ACL,MCL and/or posteromedial corner of the knee	Dr.Vikrant Khanna	Dr.VivekPandey.
7	Clinical and radiological outcome evaluation of Medial Patellofemoral Ligament reconstruction in recurrent patellar dislocation.	Dr.Kiran Kumar	Dr.KiranK.V.Acharya
8	Clinical and radiological outcome of distal radius intra-articular fracture.	Dr.Vishnu S.	Dr.SharathK.Rao
9	Clinical outcome of ACL reconstruction with transtibial and anteromedial portals.	Dr.HarshaKyalakond	Dr.SharathK.Rao

**2014**

Sl.No.	Title	Name of the student	Guide
1.	Radialisation with ulnar cuff osteotomy for radial longitudinal deficiency – short term study.	Dr.Naufal Nahas	Dr.AnilK.Bhat
2	Outcome evaluation – teratological dislocation of hip in children	Dr.Varun Rao	Dr.Hitesh Shah
3.	Outcome analysis of internal fixation of clavicle fracture	Dr.Vikas Kumar	Dr.KiranAcharya
4.	Clinical & Radiological profile of recurrent dislocation of patella.	Dr.JampaniRavith eja	Dr.VivekPandey
5.	Clinical and Radiological outcome following open reduction and internal fixation of distal humerus type B-C fractures in Adults.	Dr.Sujayendra D.M.	Dr.SharathK.Rao
6	Epidemiology of hand injuries and usefulness of the scoring systems in the management of open hand injuries.	Dr.Deepankar	Dr.AnilK.Bhat

7	A comparative study of sagittal profile of spine on follow up cases of dorsolumbar& lumbar burst fracture managed operatively & nonoperatively	Dr.Sravanchandar Dutta	Dr.ShyamasundarBhat N.
8	Factors affecting the clinical and radiological outcome of arthroscopic repair of full thickness rotator cuff tear.	Dr.Joseph C.J.	Dr.VivekPandey
9	Clinical and Radiological outcome following open reduction and internal fixation of distal femur fractures type 33-C fractures in Adults.	Dr.Swami Vivekananda	Dr.SharathK.Rao

**Completed PG Research Projects:**

**2012**

Sl.No.	Title	Name of the student	Guide
1.	Outcome analysis of brachial plexus exploration and nerve transfers-A retrospective study	Joseph Stephen	Dr.Bhaskaranand Kumar
2.	Assessment of upper limb function in children with cerebral palsy	Tahir Ahmed J	Dr.BenjaminJosphe
3.	Effect of drainage tube on muscle strength, proprioception and knee function after arthroscopically assisted anterior cruciate ligament reconstruction	Atul Mahajan	Dr.P.SripathiRao
4.	Outcome analysis in cervical spinal cord injuries without radiographic evidence of trauma	Manindra Bhushan	Dr.S.P.Mohanty
5.	Effect of concomitant meniscal injury on the outcome of anterior cruciate ligament reconstruction	AcksenT.Raja	Dr.SharathK.Rao

**2013**

Sl.No.	Title	Name of the student	Guide
1.	Management of acute scaphoid	Dr.Manoh	Dr.AnilK.Bhat

	fractures – Aggressive conservative approach-Prospective study		
2.	Functional outcome of short and long lengthening in upper limb by distractionosteogenesis.	Dr.Srikanth N	Dr.Bhaskaranand Kumar
3.	Baseline passive measurement in deep posterior compartment of leg in patients with tibia fracture and acute compartment syndrome and its correlation to outcome.	Dr.SaumitraGoyal	Dr.SharathK.Rao
4.	Outcome analysis of anterior decompression posterior spinal instrumentation and global fusion in tuberculosis of spine.	Dr.Yogesh Kumar B.	Dr.S.P.Mohnaty
5.	Role of fluoroscopy guided closed vertebral biopsy in perplexed lesions of spine.	Dr.MithunShetty	Dr.ShyamasunderBhat
7.	Pre and post manipulation rotator cuff changes on ultrasonography in primary idiopathic adhesive capsulitis of shoulder.	Dr.Karthick V.	Dr.VivekPandey

**2014**

Sl.No.	Title	Name of the student	Guide
1.	Evaluation of outcome in children Parthe’s disease treated with the femoral varusderotation osteotomy – A follow up study at skeletal maturity.	Dr.Varghese Thomas	Dr.Hitesh Shah
2.	Lumbar intervertebral disc prolapse treated non operatively. Randomised controlled study between patients treated with epidural steroid injection and those without epidural steroid injection.	Dr.JainVikasAjit	Dr.S.P.Mohanty
3.	Prospective, open label study of the safety and efficacy of viscosupplementation in patients with symptomatic osteoarthritis of the	Dr.GandhiAkshay Rajendra	Dr.KiranK.V.Acharya

	knee.		
4.	Role of platelet rich plasma (PRP) in arthroscopic rotator cuff repair: A prospective randomized control study	Dr.AtulBandi	Dr.VivekPandey
5.	Outcome analysis of using trochanteric stabilizing plate (TSP) with dynamic hip screw (DHS) for the management of unstable inter trochanteric fracture in elderly individuals.	Dr.SoubhikGhosh	Dr.SharathK.Rao
6.	Natural history of profession of curve in congenital scoliosis	Dr.Praveen C.H.	Dr.S.P.Mohanty

**Details of Publications:**

**Journal Publications:**

**2012:**

**International, Indexed**

1. Daniel AB, Shah H, Kamath A, Guddettu V, Joseph B. Environmental tobacco and wood smoke increase the risk of Legg- Calve- Perthes’ disease. ClinOrthop 2012;470: 2369-2375.
2. Siddesh ND, Shah H, Joseph B. The fate of the hip in spondylo-epi-metaphyseal dysplasia; clinical and radiological evaluation of adults with SEMD – Handigodu type. Skeletal Radio 2012 Aug;41(8):939-45.
3. Klopocki E, Lohan S, Doelken SC, Stricker S, Ockeloen CW, Soares Thiele de Aguiar R, Lezirovitz K, MingroniNetto RC, Jamsheer A, Shah H, Kurth I, Habenicht R, Warman M, Devriendt K, Kordass U, Hempel M, Rajab A, Mäkitie O, Naveed M, Radhakrishna U, Antonarakis SE, Horn D, Mundlos S.. Duplications of BHLHA9 are associated with ectrodactyly and tibia hemimelia inherited in non-Mendelian fashion. J Med Gent 2012 Feb;49(2):119-125.
4. Mukhopadhyay C, Shah H, Vandana KE, Munim F, Vijayan SA. Child with Erysipelothrix arthritis-beware of the little known. Asian Pacific Journal of Tropical Biomedicine 2012; 2(6) 503-504.
5. AshwathAcharya, Anil K. Bhat, Kumar Bhaskaranand, "The Reverse Posterior Interosseous artery flap: Technical considerations in raising an easier and more reliable flap” Journal of Hand Surgery (Am) Vol 37A, March 2012 , 575-582.
6. Klopocki E, Kähler C, Foulds N, Shah H, Joseph B, Vogel H, Lüttgen S, Bald R, Besoke R, Held K, Mundlos S, Kurth I.. Deletions in PITX-1 cause a spectrum of



- lower-limb malformations including mirror-image polydactyly. *Eur J Hum Gent* 2012 Jun;20 (6):705-8.
7. Girisha KM, Pratap A, Shah H. Further characterization of Acro-Renal-Mandibular Syndrome: Report of a case and review of earlier reports. *ClinDysmorphol* 2012 Apr;21 (2):83-6.
  8. Vijayan S, Shah H, Joseph B. Slipped capital femoral epiphysis in a child with Pycnodysostosis. *JBJS Case Connector*. 2012; 2:e33 1-5 doi:10.2106/JBJS.CC.K.00070.
  9. Loder R, Browne RH, Millis A, Kim WC, Shah H, Cosgrove AP, Wiig O. The time of the insult/ triggering event in Legg-Calvé-Perthes' disease determined by incubation period modeling and the age distribution of children with Perthes'. *Iowa Orthopedic Journal* 2012;32:69-75.
  10. Lin KR, Prabhu V, Shah H, Kamath A, Joseph B. Handedness in spastic diplegic cerebral palsy. *DevNeurorehabil*. 2012;15(5):386-9.
  11. Vijayan S, Mehta O, Jacob G, Siddesh ND, Shah H, Joseph B. The fate of joint space in healed Legg-Calve-Perthes' disease. *Skeletal Radiology* 2012 (in press).
  12. Terceier S, Dinesh KVN, Shah H, Siddesh ND, Joseph B. Effective treatment of post-traumatic avascular necrosis of the body of the talus in a child by subtalar fusion. *JBJS Case Connector*, 2012 Sep 12;2(3):e50 1-4. doi: 10.2106/JBJS.CC.L.00025.
  13. Shah H, Siddesh ND, Pai H, Terceier S, Joseph B. Quantitative measures for evaluating the outcome of Legg-Calve-Perthes' disease. *J Bone Joint Surg Am* 2012 (in press).
  14. Shah H, Bens S, Caliebe A, Graham JM, Girisha KM. Growth retardation, intellectual disability, facial dysmorphism, cataract, thoracic hypoplasia and skeletal abnormalities: a novel phenotype. *Am J Med Gent* 2012 ;158A(11):2941-5.
  15. Terceier S, Siddesh ND, Shah H, Girisha KM, Joseph B. Loss of a condyle of the femur or tibia following septic arthritis in infancy, problems of management and testing of a hypothesis of pathogenesis. *J child Orthop* 2012;6:319-325.
  16. Dalal A, Bhavani G, Priya TP, Bierhals T, Kutsche K, Nandineni MR, Danda S, Danda D, Vijayan S, Shah H, Gowrishankar K, Phadke SR, Bidchol AM, Girisha KM. Analysis of WISP3 Gene in Indian Families with Progressive PseudorheumatoidArthropathy of Childhood. *Am J Med Gent* 2012 ;158A(11):2820-8.
  17. Terceier S, Shah H, Joseph B. Quadricepsplasty for congenital dislocation of the knee and congenital quadriceps contracture. *J Child Ortho* 2012; 6: 397-410.
  18. KiranAcharya: Prospective randomized control study of use of arthroscopic debridement with or without visco supplementation in knee osteoarthritis. IOF ECCEO 2012, 20-24 March 2012, Bordeaux, France.

19. ShamsiHameed; SandeepVijayan; A M Naik; S K Rao: “Multicentric Osteosarcoma”: Singapore Med J 2012; 53(10):e1-e4.

### **National: Indexed**

1. SandeepVijayan; Hitesh Shah:“Spondylo-costal dysostosis with Sprengel’s shoulder-Report of a new association with Jarcho-Levin syndrome”Kerala Journal of Orthopaedics, 2012:25:103-104 July 2012.

### **2013**

#### **International-indexed**

1. Naik MA, Sujir P, Tripathy SK, Vijayan S, Hameed S, RaoSK:Bilateral stress fractures offemoral neck in non-athletes: a report of four cases, Chinese Journal of Traumatology 2013;16(2):113-117.
2. Monappa A Naik, PremjitSujir, Sujit Kumar Tripathy, TarunGoyal, Sharath K Rao: Correlation between the forearm plus little finger length and the femoral length. Journal of Orthopaedic Surgery 2013;21(2):163-6.
3. MonappaA.Naik, GauravArora, Sujit Kumar Tripathy,mPremjitSujir, SharathK.Rao:Clinical and radiological outcome of percutaneous plating in extra-articular proximal tibia fractures: A prospective study. Injury, Int. J. Volume 44, Issue 8 , Pages 1081-1086, August 2013 Bottom of Form.
4. SP Mohanty, NS Bhat, KA Singh, M.Bhushan: Cervical spinal cord injuries without radiographic evidence of trauma: a prospective study. International Spinal cord Society 2013, 1-4.
5. Pachauri, Amit, AcharyaKiran K, TiwariAkhilesh Kumar.: The Effect of Tranexamic Acid on Hemoglobin Levels during Total Knee Arthroplasty. American Journal of Therapeutics, Jan 2013.27.
6. Kiran K V Acharya, VivekPandey, Akshay Gandhi: Does viscosupplementation following arthroscopic debridement improve outcome in osteoarthritis?. Osteoporosis International (2013) 24 (Suppl. 1).Pg S 272.
7. VivekPandey, Elsa Varghese, Nataraj MS, Madhuraa, Neethu MM, Kiran KV Acharya, P SripathiRao. Nonfatal air embolism during shoulder arthroscopy: A case report and review of literature. American journal of Orthopaedics: 2013.(June); 272-274.
8. VivekPandey, MS (Ortho), KiranAcharya, MS (Ortho),SharathRao, MS (Ortho), and SripathiRao, MS (Ortho): Arthroscopic Tibial Spine Avulsion Fixation: A Simple Technique: Techniques in Orthopaedics. Volume 28, Number 4, 2013.

9. Vijayan S, Mehta O, Jacob G, Siddesh ND, Shah H, Joseph B. The fate of joint space in healed Legg-Calve-Perthes' disease. *Skeletal Radiology* 2013 Mar; 42(3):341-5.
10. Shah H, Siddesh ND, Pai H, Terceier S, Joseph B.: Quantitative measures for evaluating the outcome of Legg-Calve-Perthes' disease. *J Bone Joint Surg Am* 2013; 95:354-61.
11. Shah H. Talonavicular arthrodesis for the treatment of neurological flat foot deformity in pediatric patients. *J PediatrOrthop* 2013; e39.
12. SandeepVijayan, Hitesh Shah: Hereditary sensory and autonomic neuropathy type IV- case report and short review. *Kerala Journal of Orthopaedics* January 2013; 26(1):27-30.
13. Terceier S, Shah H, Siddesh ND, Joseph B: Does proximal femoral osteotomy in Legg-Calvé-Perthes disease predispose to angular mal-alignment of the knee? A clinical and radiographic study at skeletal maturity. *J Child Ortho* 2013; 7:205-11.
14. SandeepVijayan: Bilateral stress fracture of femoral neck in non-athletes: a report of four cases. *Chin J Traumatol* April 2013; 16(2):113-7.

#### **National:**

1. Monappa A Naik, premjithSujir, Sharath K Rao, Sujith K Thripathy : Ulnar Buttress arthroplasty after enbloc resection of a giant cell tumor of the distal ulna.. *Indian Journal of orthopaedics*, March 2013, vol 47, issue 2: 211-14.
2. Vijayan S, Shah H. Epithelioid Sarcoma of the forearm. *Kerala Journal of Orthopaedics* 2013; 26(1):36-40.

#### **2014**

##### **International-indexed:**

1. Anil K.Bhat, AshwathAcharya, Prashant Rosario, Anuradha C.K.,LaxmiRao “ Superficial angiomyxoma of the thumb mimicking a malignant bone tumour: A case report *Journal of Hand Surgery (Am)*.39(5):937-939; May 2014:937-39.(International, indexed)
2. CharuEapen, Bhaskaranand Kumar, Anil K Bhat, AnandVenugopal: ExtensorPollicisLongus Injury in Addition to De Quervain's with Text Messaging on Mobile Phones:*Journal of Clinical and Diagnostic Research*. 2014 Nov, Vol-8(11): LC01-LC04
3. Siddesh ND, Shah H, Terceier S, Pai H, Joseph B The sphericity deviation score - a quantitative radiological outcome measure of Legg-Calvé-Perthes' disease applicable at the stage of healing and at skeletal maturity. *J PediatrOrthop* 2014 2014; 34:522–528.
4. Shah H. Perthes disease- evaluation and management. *OrthopClin North Amer* 2014;

- 45: 87-97.
5. Girisha KM, Abdollahpour H, Shah H, Bhavani SL, Graham JA, Phadke SR, Kutsche K. A syndrome of facial dysmorphism, cubitalpterygium, brachytelephalangy, swan neck deformity of fingers and scoliosis. *Am J Med Genet A*. 2014 Apr; 164(4):1035-40.
  6. Girisha KM, Bidchol AM, Kamath PS, Shah KH, Mortier G, Mundlos S, Shah H. A Novel Mutation (404G>T) in Zone of Polarizing Activity Regulatory Sequence (ZRS) Causes Variable Limb Phenotypes in Werner Mesomelia. *Am J Med Genet A*. 2014 Apr; 164(4):898-906.
  7. Stephen J, Shukla A, Dalal A, Girisha KM, Shah H, Gupta N, Kabara M, Dabadghao P, Phadke P. Mutation Spectrum of Indian Patients with Osteogenesis Imperfecta. *Am J Med Genet* 2014 Jun; 164A (6):1482-9.
  8. 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. GALNS Mutations in Indian Patients with Mucopolysaccharidosis IVA. *Am J Med Genet A*. 2014 Nov; 164(11):2793-801.
  9. Daly S, Shah H, Sullivan J, Anderson B, Bhaskar S, Williams S, Al-Sheqaih N, Bidchol A, Banka S, Newman W, Girisha K. Exome Sequencing Identifies a TNNT3 Mutation in a Large Dominant Family with a Distal Arthrogryposis. *Mol Syndromol*. 2014 Aug; 5(5):218-28.

### **National**

1. Vivek Pandey, Swati Sharma, Suman CPS, Kiran Acharya, Sripathi Rao, Charudutt Sambhaji. Muroid Degeneration of the ACL, Management and Outcome, *Indian Journal of Orthopaedics*, Volume 48, Issue 2, March 2014. Pg 197-202.
2. Vivek Pandey, Simon V., Gaurav Arora, Sripathi Rao. "Bifurcate intraarticular long head of biceps tendon confluent with rotator cuff- A rare case report". *Indian Journal of Orthopaedics*. 2014; 48(4):432-434
3. Challawar N, Shah H. Intra-articular osteoid osteoma of the distal humerus: a diagnostic challenge. *BMJ case report* 2014. March 6.
4. Challawar N, Sud V, Shah H. Thorn-induced pseudotumour of the fibula. *BMJ case report* 2014 May 16; 2014.

**12. Placement record of past students and the contribution of the department to aid student placements.**

All postgraduates who have passed out in last three years are actively employed in various teaching hospitals and non-teaching private hospitals across the country. The department provides them letter of recommendations and references whenever required.

**13. Plan of action of the department for the next five years.**

- Starting new sub specialties: Ankle and foot, Orthopedic oncology, Pediatric spine
- Strengthening existing specialty work with better technology and continuous education/fellowships
- Provide the best regional care for both routine and emergency cases
- Conduct one national or state conference.
- To maintain the research activities and publications in national and international indexed journals and streamlining the process by establishing a research cell
- To explore the means for more external grants for research projects.
- To improve inter-departmental research projects.
- To establish Manipal Orthopaedic institute to provide state of the art services in Orthopaedic sub specialties

### PAEDIATRICS

#### 1. Faculty profile - adequacy and competency of faculty.

There are 19 teaching faculty meeting MCI requirements for training UGs & PGs. All the faculties are competent.

##### Faculty details:

S.No.	Name	Qualification	Designation	Teaching experience in years
1	Dr. A ShrikiranHebbar	MBBS, MD	Professor	16
2	Dr. NaliniBhaskaranand	MBBS, MD	Professor	34
3	Dr. Pushpa G Kini	MBBS,MD	Professor & Head	29
4	Dr. Leslie Edward Lewis	MBBS, DNB	Professor	16
5	Dr. Ramesh Bhat Y	MBBS,MD	Professor	15
6	Dr. Girisha K M	MBBS, MD, DM	Professor	12
7	Dr. Suneel C Mundkur,	MBBS, DNB	Addl. Prof.	15
8	Dr. Jayashree P	MBBS,MD	Assoc. Prof.	15
9	Dr.Prashant B Naik	MBBS,MD	Assoc. Prof.	7
10	Dr. KalyanKakumani	MBBS,MD	Asst. Prof.	2
11	Dr. AnjuShukla	MBBS,MD, DM	Asst. Prof.	1
12	Dr.Sandeep Kumar B K	MBBS,MD	Senior Resident	2
13	Dr. SowmyaShashidhar	MBBS,MD	Senior Resident	1
14	Dr. K SandeshKini	MBBS, MD	Senior Resident	1
15	Dr. V. Lokanadh Reddy	MBBS,MD	Senior Resident	-
16	Dr. GVSujith Kumar Reddy	MBBS,MD	Senior Resident	-
17	Dr. LuvdeepDogra	MBBS,MD	Senior Resident	-
18	Dr. Faisal MoidunnyMammu	MBBS	Junior Resident	-
19	Dr. NallaSuhas	MBBS	Junior Resident	-
20	Dr. Adel Moideen	MBBS	Junior Resident	-
21	Dr. Naveen Reddy	MBBS	Junior Resident	-
22	Dr. MaitreyeDatta	MBBS	Junior Resident	-
23	Dr. Balaji T K.	MBBS	Junior Resident	-
24	Dr. KanaparthiShravan	MBBS	Junior Resident	-
25	Dr. Phalgunakousika K	MBBS	Junior Resident	-
26	Dr. Vinith C.	MBBS	Junior Resident	--
27	Dr. T. AdharshNarain	MBBS	Junior Resident	-
28	Dr. MVB Pratyush	MBBS	Junior Resident	-
29	Dr. R. Swetha	MBBS	Junior Resident	-

Category	Sanctioned	Filled
Teaching staff	12	11
Senior Resident	08	08
Junior Resident	10	22

- There are additional 12 junior residents working in the department

## 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.-

Please refer Annexure No. HS 1 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 MCI and the department complies with the laid down requirement.

The details of the course and curriculum areas specified in student handbook.

The End posting exams have been made more objective in nature.

The department along with the department of Forensic Medicine is involved in integrated teaching.

## 4. Trends in the success and drop out rates of students during the past two years-

**Undergraduates:** Drop outs: <1% (due to ill health or personal grounds)

Success rate: 2013–January -96%    2013 - August - 84%

Success rate: 2014 –January - 95%    2014 - August - 71%

**Postgraduates:** Drop outs: None.

Success rate: 2013 - April - 100%

Success rate: 2014 -April- 100%

## 5. Learning resources of the departments - library, computers, laboratories and other resources-

- The department has well-equipped library with over 100 books and 9 Paediatrics Journals, Computers with internet facility is available to the Postgraduate students in the workplace.
- The institutional library has more than 1616 books in Paediatrics and 15 online journals which are accessible through intranet for all PGs.

## 6. Modern teaching methods practiced and use of ICT in teaching – learning –

- The department extensively uses AV aids like Power Point and multi-media for teaching.
- There is a SIM lab with the state of art equipments Undergraduates & Postgraduates are trained in the lab for BLS & ACLS.



### 7. Participation of teachers in academic and personal counseling of students-

Every batch of student is equally divided among available staff members for personal interaction and mentoring.

### 8. Details of faculty development programmes and teachers who have been benefited during the past two years

All the newly joined faculties attend faculty development programmes pertaining to teaching-learning and evaluation.

- All faculties regularly attend various scientific programmes like conferences, workshops, symposia and CMEs.
- In the past 2 years faculty have attended more than 90 such programmes.

### 9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

- All the faculties are actively involved in teaching UG and PG students.
- All the faculties participate in research including industry sponsored research.
- Undergraduates & Postgraduates log book has been implemented.

### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years.

- Coordinated activity with Indian Academy of Paediatrics in conducting yearly UG Quiz, PG Quiz,
- Recently conducted workshops on Vaccinology update, NTPPO.
- Indo-US Symposium on Disorders of the Developing Brain.

### 11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years –

**Priority areas** – Research related to child health.

A snapshot of our research activities and publication activities in given in the tables below.

#### Ongoing:

Category	Number
Funded research projects	4
Non-funded research projects	0
PhD research projects	4
PG research projects	8
UG research projects	0

**Last 3 years (2010-2012):**

		2012	2013	2014
Completed funded research projects		0	0	4
Completed non-funded research projects		0	0	0
Completed PhD research projects			0	2
Completed PG research projects		8	8	4
Completed UG research projects		0		
Publications	International	28	18	20
	National	04	02	06
Books		0	0	0
Chapters in books				0
Conference presentations	International	2	9	
	National	17	18	

The detailed outline of projects is given below:

**Our on- going funded research projects are:**

Sl. No	Title	Principal Investigator	Funding agency	Duration	Total amount received
1.	Pneumococcal meningitis surveillance	Dr. SugandhiRao, Dr. PushpaKini, Dr. Nalini B	ICMR	3 years	Rs. 63,72,114
2.	Evaluation of multiplex ligation dependent probe amplification (MLPA) for diagnosis and carrier detection in families with a dystrophinopathy	Dr. Girisha K M	Department of Science and Technology	3 years	Rs. 22,00,000
3.	Comparing the efficacy, safety and cost effectiveness of caffeine versus aminophylline for apnea of prematurity in Indian neonates' Prospective RCT	Dr. Leslie Lewis	ICMR	3 years.	Rs. 35,15,400
4.	Cyber vitals monitoring in neonates	Dr. Leslie Lewis	Xerox research center, Webster, New York	3 years	Rs. 30,00,000

**Our ongoing PhD research projects are:**

Sl. No	Title	Name of student	Name of the guide
1.	Spectrum of selected inborn errors of metabolism in a tertiary care centre	Ms. SavithaKamath	Dr. NaliniBhaskaranand
2.	Effectiveness of Development Supportive Care Programme (DSCP) on health status of preterm infants, knowledge and practice of care providers of preterm infants admitted in Neonatal Unit of Kasturba Hospital, Manipal	Ms. YashodaSatish	Dr. Leslie Lewis
3	Effectiveness of a preterm home care program (PHCP) on parent infant interaction among mothers of preterms and the developmental outcomes of the preterms in Kasturba Hospital, Manipal, Karnataka	Ms. Binu Margaret E	Dr. Leslie Lewis

**Our ongoing PG research projects are:**

Sl. No	Title	Name of the Student	Guide
1.	Blood levels of Serum Zinc status in lower respiratory tract infections in children between age 1 month to 5 years.	Dr. Faisal M Ma	Dr. Shrikiran A
2.	Procalcitonin as diagnostic markers of severe bacterial infections in febrile infants and children.	Dr. NallaSuhas	Dr. PushpaKini
3.	Neutrophil VCS parameters & CD-64 in the diagnosis of neonatal sepsis.	Dr. Adel Moideen	Dr. Leslie Lewis
4.	Serum Zinc & magnesium levels in children with seizures.	Dr. Naveen Reddy	Dr. Suneel C M
5.	Study of neurodevelopment outcomes in infants with neonatal hypoxic ischemic encephalopathy.	Dr. MaitreyeDatta	Dr. Jayashree P
6.	Clinical profile of rickettsial diseases with special reference to scrub typhus .	Dr. Balaji T K.	Dr. Shrikiran A
7.	Clinical profile of children with primary ITP & factors predicting poor response to initial treatment.	Dr. KanaparthiShravan	Dr. Prashant B Naik

8.	A study of thrombocytopenia in blood culture proven neonatal sepsis.	Dr. Phalgunakousika K	Dr. Ramesh Bhat
9.	Randomised control trial of efficacy & outcome of Vitamin D supplementation in preterm neonates.	Dr. Vinith C	Dr. Leslie Lewis
10.	Urinary Indius in Nephrotic Syndrome	Dr. AdharshNarain	Dr. Nalini B

**Our completed PG research projects are:**

**Year 2012**

Sl. No	Title	Name of the student	Guide
1	Study of therapeutic hypothermia in neonates with hypoxic ischemic encephalopathy.	Dr. Anusha K M	Dr. Jayashree Purkayastha
2	Effectiveness of the first antiepileptic drug in the treatment of epilepsy in children.	Dr. Balasubramanian S	Dr. Pushpa G. Kini
3	A study of long term follow-up of vesico-ureteral reflux in children.	Dr. Shivanagouda	Dr. NaliniBhaskaranand
4	Study of factors that predict relapse in children with the first episode of nephrotic syndrome.	Dr. ArunMundakakulathu Thomas	Dr.Suneel C. Mundkur
5	Efficacy and safety of caffeine versus aminophylline for apnea of prematurity – a randomised control trial.	Dr.L. Muhammad Najih	Dr. Leslie Edward Lewis
6	Hearing impairment in children aged 6 months to 2 years with global developmental delay.	Dr. Harish Kashyap	Dr. Ramesh Bhat
7	Screening for hearing impairment in high risk newborns.	Dr. Chandra Mouli	Dr. Leslie Edward Lewis
8	Long term use of inhaled steroids and its systemic side effects with particular reference to HbA1c levels.	Dr. L. Agni Devi	Dr. Shrikiran A

**Year 2013**

Sl. No	Title	Name Of The Student	Guide
1	SCREENING FOR HEARING IMPAIRMENT IN HIGH RISK NEWBORNS.	Dr. Chandramo Uli Gogada	Dr. Leslie Lewis
2	LONG TERM USE OF INHALED STEROIDS AND ITS SYSTEMIC SIDE EFFECTS WITH PARTICULAR REFERENCE TO HbA1C LEVELS.	Dr. L. Agni Devi	Dr. Shrikirian A
3	HEARING IMPAIRMENT IN CHILDREN AGED 6 MONTHS TO 2 YEARS WITH GLOBAL DEVELOPMENTAL DELAY.	Dr. K Harish Kashyap	Dr. Ramesh
4	EFFECTIVENESS OF THE FIRST ANTIEPILEPTIC DRUG IN THE TREATMENT OF EPILEPSY IN CHILDREN.	Dr. Balasubram Anian S.	Dr. PushpaKini
5	STUDY OF FACTORS THAT PREDICT RELAPSE IN CHILDREN WITH THE FIRST EPISODE OF NEPHROTIC SYNDROME.	Dr. Arun M Thomas	Dr. Suneel M
6	A STUDY OF LONG TERM FOLLOW-UP OF VESICO-URETERAL REFLUX IN CHILDREN.	Dr. Shivana Gouda	Dr. Nalini B
7	EFFICACY AND SAFETY OF CAFFEINE VERSUS AMINOPHYLLINE FOR APNEA OF PREMATURITY – A RANDOMISED CONTROL TRIAL.	Dr. Muhammad Najih L.	Dr. Leslie Lewis
8	STUDY OF THERAPEUTIC HYPOTHERMIA IN NEONATES WITH HYPOXIC ISCHEMIC ENCEPHALOPATHY.	Dr. Anusha K M	Dr. Jayashree P

**Year 2014**

Sl#	Title	Name of the student	Guide
1	Wilson disease- clinical manifestations and emphasis on long term follow up.	Dr. Repaka Pratyusha	Dr. Nalini B.

2	Efficacy of early aggressive versus conventional total parenteral nutrition in VLBW babies- A randomised controlled trial.	Dr. Soundaram V.	Dr. Jayashree
3	Clinicohematological study of thrombocytosis in children.	Dr. S. Nathiya	Dr. Suneel M
4	Study of neonatal outcome among multiple births.	Dr. SaikatPatra	Dr. Ramesh

**Our completed UG research projects are:**

**Year 2010**

Sl#	Title	Name of the student	Guide
1	“Factors affecting short- term outcome in neonates with persistent pulmonary hypertension of newborn.” ICMR-STs Project-2010	Aishwerya Singh	Dr. PrashantNaik
2	“Cutaneous application of oil as a method of energy supplementation in LBW neonates & to compare the effectivity between mineral oil & coconut oil.”	Debunka Gupta	Dr. Leslie E Lewis
3	“To assess the efficacy of Kangaroo mother care over conventional methods of care in the management of LBW babies.”	Akash Gupta	Dr. Leslie E Lewis

**The details of our publications are described below:**

**Year 2012 International:**

1. Yogesh Gupta, Anushre Prasad, PushpaKini, PrashantNaik, Deepti C, KrishnandaPrabhu - Case report on Infant presenting with hypoglycemia and milky serum, Asia Pacific Jr. of Tropical Biomedicine, 331-332, 2012.
2. PrashantNaik, PushpaKini, Deepti C, Yogesh Gupta – Finlay-Mark’s Syndrome- Report of two siblings and review of literature, Accepted for Publication in American Journal of Medical Genetics, Part A, 2012.
3. Coutinho MF, Santos Lda S, Girisha KM, Satyamoorthy K, Lacerda L, Prata MJ, Alves S.- Mucopolipidosis type II  $\alpha/\beta$  with a homozygous missense mutation in the GNPTAB gene. Am J Med Genet 2012; 158:1225-1228.
4. Girisha KM, Pratap D, Shah H.- Further Characterization of Acro-Renal-Uterine-Mandibular Syndrome: Report of a Case and Review of Earlier Reports. Clin. Dysmorphol 2012; 21: 83-86.

5. Y. Ramesh Bhat, G. Vinayaka, K. Sreelakshmi- Antenatal Bartter Syndrome: A Review. International Journal of Pediatrics. Volume 2012, Article ID 857136, 5 pages doi:10. 1155/ 2012/ 857136 (Review Article).
6. Y. R. Bhat, C. G. Pavan Kumar - Morbidity of ABO haemolytic disease in the newborn. Paediatrics and International Child Health 2012; VOL. 32 NO. 2; 93-96.
7. PV ChaitanyaVarma, Shrikiran A Hebbar, Ramesh Y Bhat, Suneel C Mundkur, KarthickAnnamalai, Sonia Bhatt - Antigolgi antibodies in a case of autoimmune haemolytic anemia: a case report. Asian Pacific Journal of Tropical Biomedicine 2012;S462-S463.
8. P. V. ChaitanyaVarma, Sonia Bhatt, Ramesh, Y. Bhat - Amitraz Poisoning. Indian J Pediatr 2012. DOI 10.1007/s12098-012-0772-2.
9. ChaitanyaVarma, ShrikiranAroor, Suneel C. Mundkur, KarthickAnnamalai - Kawasaki disease with peripheral gangrene and auto amputation - an extremely rare complication: a case report. OurDermatol online. 2012; 3(3): 210-211.
10. ChaitanyaVarma, ShrikiranAroor, Suneel C. Mundkur - An atypical giant mantoux reaction. OurDermatol Online. 2012; 3(3): 234.
11. Varma C, Raju P. - Yoga Therapy in Pediatrics - Education in Medicine Journal 2012; 3(6):3506.
12. Varma C. - Molecular Targeted Therapy: Cancer Therapy of the Future. International Journal of Medicine and Molecular Medicine2012; 3(6):3496.
13. Varma C, Shrikiran A, Suneel M, Karthick A - Virtual Reality as a Tool in Pediatric Rehabilitation. Webmed Central PAEDIATRICS 2012;3(1):WMC002857
14. VarmaC,Shrikiran A, Suneel M, Karthick A. - Gifted Children in Pediatric Practice. Webmed Central Paediatrics 2012; 3(1): WMC002836.
15. ChaitanyaVarma, Kalyan C.K. - Haemophilusinfluenzae type b vaccination in India—a reality check. International Journal of Infectious Diseases, DOI: 10.1016/j.ijid.2012.05.1034.
16. ChaitanyaVarma, P S Raju - The Checklist Manifesto - A Book Review. Journal of Clinical Diagnostic Research. Aug 2012, Vol-6(6):1126.
17. Karthick C Annamalai,Shrikiran A, Suneel C Mundkur, ChaitanyaVarmaPV.Acute naphthalene toxicity presenting with metabolic acidosis: a rare complication. Journal of Acute Disease (2012)75-76.
18. ShrikiranAroor, ChaitanyaVarma, Suneel C. Mundkur- Blue Rubber Bleb Nevus syndrome with ASD. Journal of Clinical Diagnostic Research.
19. ChaitanyaVarma, ShrikiranAroor, Suneel C. Mundkur, KarthickAnnamalai- Bilateral Duane syndrome with multiple anomalies: a case report. Journal Of Clinical Diagnostic Research.
20. Ramesh Y Bhat, ChaitanyaVarma - Reversible hypopigmentation of hair due to Vitamin B12 deficiency.OurDermatolonline Jan 2013).



21. ShrikiranAroor, ChaitanyaVarma, Suneel C. Mundkur. PurpuraFulminans in a Child. Journal of Clinical Diagnostic Research
22. Dr. Abhirami, Dr. Vijianthy, Dr. MamathaBallal, Dr. RituparnaChakraborty, Dr. Sunil C Mundkur, Dr. ShrikiranHebbar - A Rare Case Of Diarrhoea Due To Elizabeth KingiaMeningoseptica In an Infant- "Journal of International Medical science academy"
23. Tercier S, Siddesh ND, Hitesh Shah, Girisha KM, Joseph B. - Loss of a condyle of the femur or tibia following septic arthritis 3 in infancy: problems of management and testing of a hypothesis 4 of pathogenesis. J Child Orthop 2012
24. Shalini SN, Adiga PK, Rai L, Girisha KM.- Severe rhizomeliachondrodysplasiapunctata in a fetus due to maternal mixed connective tissue disorder. Genetic Counseling 2012
25. Neetha J, Girisha KM, Gopinath PM, Sekhar MR.- A de novo translocation of chromosomes 1 and 2 in 18 year old boy with syndromic mental retardation. Genetic Counseling 2012
26. Kodandapani S, Girisha KM, Shetty J, Kumar P.- Umbilical cyst due to patent urachus in a fetus with complete urorectal septum malformation sequence. J Ped Genet
27. ChaudharyN,Borker A. - Metronimic therapy for malignant peripheral nerve sheath tumor in Neuro- fibromatosis type-1. Pediatric Blood Cancer [Article first published online: 28 June 2012; DOI: 10.1002/pbc.24245]
28. Chaudhary N, Kosaraju K, Bhat K, Bairy I, Borker A. - Significance of interleukin-6 (IL-6) and C-reactive protein (CRP) in children and young adults with febrile neutropenia during chemotherapy for cancer: A prospective study. Journal of Pediatric Hematology Oncology

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1. Tamhankar PM, Boggula V, Girisha KM, Phadke SR.- Profile of Patients With Von Gierke Disease From India. IndPediatr 2012; 49: 228-230.
2. ChaitanyaVarma, ShrikiranAroor, Suneel C Mundkur- Necrotisingenterocolitis in a forty day old infant. Karnataka PaediatricJournal . Vol. 26, No. 1 Jan - March 2012.
3. KarthickAnnamalai, ShrikiranAroor, SuneelMundkur, ChaitanyaVarma - EEC SYNDROME with renal anomalies- a rare association. Karnataka Paediatric Journal .Vol. 26, No. 1 Jan - March 2012.
4. Chaudhary N, Vishwanath M, Pahuja M, Borker A. - Candida albicans endocarditis in a child with acute lymphoblastic leukemia: A dreaded complication of intensive chemotherapy.Indian J Med PedOncol.

**Year 2013 International:**

1. Vandana KE, FrenilMunim, Chaitanya T, Asha K, Muralidhar V, Leslie E L, ChiranjayMukhopadhyay - Staphylococcus aureus bacteremia in an Indian tertiary care hospital: observational study on clinical epidemiology, resistance characteristics & carriage of the Panton-Valentine leukocidin gene. *IntJr of Infectious Diseases*, 10.1016/j.ijid.2013.06.002. (International, Indexed).
2. Lydia David, Sonia D'souza, Anasuya P, Leslie Lewis - Learning needs & Nursing care needs of post natal women. *I manager's Jr of Nursing*, Vol2 , 4. Jan 2013. (International, Indexed).
3. Ramesh Bhat Y, Vishal K B Shah, Deepak E - Clinical characteristics & fever resolution time in 113 children with malaria from a centre in Karnataka, India. *Jr of Ped Infectious Diseases*, Vol8, 111-115, DOI 10.3233/ JPI-130389. Sept 13. (International, Indexed).
4. ChaitanyaVarma, Ramesh Y B, Sonia Bhatt - Bardet-Beil syndrome in 2 sisters – a rare incidence. *Jr of Ped Genetics*, Vol2, 49 – 51, DOI 10.3233/ PGE-13048, Apr 13. (International, Indexed).
5. Ramesh Bhat Y. Ramdas V.- Predisposing factors, incidence and mortality of pneumothorax in neonates. *Minerva Pediatrica*, 65(4):383-8. Aug 2013. (International, Indexed).
6. Ramesh Y Bhat, Pavan C. G. Kumar - Sixth hour transcutaneous bilirubin predicting significant hyperbilirubinemia in ABO incompatible neonates. *World Jr of Pediatrics* . DOI:10.1007/s12519-013-0421-5. Jun 2013. (International, Indexed).
7. Ramesh Y. Bhat, Vishal Kumar, Bharath Shah- Prevelence of malnutrition among under 5 yr old children with acute lower resp. tract infection hospitalized at Udupidist hospital. *Arch Pediatr infect dis*. 5(4), 203-206. Oct. 2013. (International, Indexed).
8. Ramesh Bhat Y , Annamma K, Shruti K, M S Padma, Vamsi S R, Sherin G.- Spontaneous recovery of haemo-phagocytic syndrome in an adolescent girl receiving anti- tuberculosis treatment. *Jr of Micro & Infectious Diseases*. 3(4). 211-13. 2013. (International, Indexed).
9. K M Girisha (JSRS St.group)- Phenotypic spectrum & prevalence of INPP5E mutations in Joubert syndrome & related disorders. *European Jr of Human Genetics*. 1074 – 78. Feb 2013. (International, Indexed).
10. Girisha KM, Bierhals T, Maddukuri SB - Expanding the Phenotype assoc with 17q12 duplication: case report & review of literature. *AmJr Med Gen Part A*. 161: 352-359. 2013 (International, Indexed).
11. Vivek G, Shetty RK, Nayak SS, Girisha KM - Prenatal diagnosis of absent pulmonary valve confirmed byautopsy. *BMJ Case Rep*. Doi:10.1136. Jan 2013. (International, Indexed).

12. John N, Rajasekhar M, Girisha KM, Sharma OSVN, Gopinath Multiplex ligation- dependent probe amplification study of children with idiopathic mental retardation in South India. *Ind J Hum Gent.* 19: 163-168. 2013. National Indexed. (International, Indexed).
13. K Mohan Girisha, AikateriniD(JSRS St.group)- Genotype-Phenotype spectrum of PYCRI -related autosomal recessive cutis laxa. *Molecular Gen &Metab.* (International, Indexed). Inpress
14. KM Girisha, Shalini SN, Asha R, PS Roopa, JyothiShetty - Jejunal atresia & postaxial polydactyly: a newly recognized Phenotype- Case Report. *Cl. ds morphology, Vol 22, 121-123.*2013. (International, Indexed)
15. Mamatha B, Rituparna, Suneel M, Shrikiran A, Abirhami, Vijianthy R - An unusual presentation of acute Gastroenteritis caused by Elizabethkingiameningoseptica in a child with sepsis from rural Karnataka – A case report. *JIMSA - April-June ,26 No2, 114, 2013.* (International, Indexed).
16. Sonia Bhatt, Nalini B, Kashyap U, Meenu J - Progressive varicella syndrome with variciellagangrenosa in an immune competent infant. *Dermatol online, 4 (3); 349-350.*2013. (International, Indexed).
17. ShameeShastry, Nalini B, Kashyap U, Meenu , Leslie E L, Sudha S Bhat - A rare case of haemolytic disease of newborn with Bombay phenotype mother. *Asian Journal of Transfusion Science, Vol 7, Issue 2;153-155. July - December 2013.* (International, Indexed).
18. Ramesh Bhat Y, Kakkar S, Balachandran, L Rao, Roopasree S – Erythrodermic psoriasis. *Eu J Pediatr, Dermatol, V23; 142-4, 2013.* (International, Indexed).

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1. Vandana K E, Arun S, FrenilMunim, Jayashree P, Leslie L, Chiranjay Mukhopadhyay- Neonatal Meningitis & Sepsis by *Chryseobacteriumindologenes*: A rare & resistant bacterium. *Indian Journal of Paediatrics, May 2013.* National Indexed.
2. K MGirisha, Abdul Mueed B, Murali K Saroangala, K Satyamoorthy - A Novel Frameshift mutation in TWIST2. Gene causing setlies syndrome. *Indian JrPediatr. DOI 10. 1007/s 12098-013-1253y , Oct ‘ 13( National, Indexed).*

### **Year 2014International:**

1. Krishnand P, R Malik, Priya P, Gayathri, Anjali R, Nalini B - Role of renoprotective therapy on anti-oxidant status in children with nephrotic syndrome. *Jr of Int Academic Research for Multidisiplinary. Vol 2, 4, 576 -581. May, 2014.* (International, Indexed).
2. Phani NM, NaliniB, Satyamoorthy K - Genetic assoc of KCNJ 10rs 1130183 with seizure susceptibility & computational analysis of deleterious non

- synonymous SNPs of KCN J10 gene. *Gene* 2014 Apr 15, 539 (2); 247-253. 2014. Pub Med (International, Indexed).
3. Saritha K, Nalini B, Anjali R, - Spectrum of Clinical symptoms in children with elevated Lactate: Pyruvate radio in a tertiary care setting. *Asian J of Biomed & Pharmaceutical Sciences*. 04 (29); 34-38. Mar. 2014. (International, Indexed).
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- Hypothyroidism & Tail like Appendage, Oman Medical Journal, V. 29, N 5, DOI 10.5001, 2014. (International, Indexed).
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  18. Ramesh Y Bhat, Chaitanya P V Varma, Sonia Bhatt. - An infant with chronic severe neutropenia. Apr 2014. BMJ Case Rep 2014. doi:10.1136/bcr-2013-202908. (International, Indexed).
  19. Ramesh Y Bhat, Shruti Kakkar, Koteshwara Prakashini - Hemiconvulsion-hemiplegia-epilepsy syndrome: clinical course and neuroradiological features in a 20-month-old girl. BMJ Case Rep. Mar 2014. doi:10.1136/bcr-2013-203482. (International, Indexed).
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#### **Year 2014 National:**

1. Manjula, Suja K, Ansuya, Asha K, Suneel M - An evaluative study to find the effectiveness of two methods of management of pediculosis capitis among children of selected schools of Udupi District. IOSR Jr of Nursing & Health Scie Clin Biochem, 17-20, Jan 14. National Indexed.
2. Sandeep Kr, Shrikiran A, Suneel M, Maneesh Kr - Infective tropical acute kidney injury in an adolescent from rural coastal Karnataka - A case report. KarPed Journal, Vol 29 (1), 11-13, Jan-Mar 2014. National Indexed
3. Ramesh B Y, Chaitanya Varma, Sonia Bhatt. - Dengue fever with co-infections: A case series in children. J Microbiol Infect Dis 2014; Spl Issue, 1: S62-S64, 2014, National Indexed.
4. Ramesh Y B, C Varma, Sonia Bhatt, Balachandran C - Rowell syndrome, Indian Dermatology Online Jr, 5:33-5, 2014. National Indexed.
5. Kumar S, Aroor S, Mundkur S, Kumar M. - Infective tropical acute kidney injury in an adolescent from rural coastal Karnataka - a case report. Karnataka Pediatric Journal 2014; 29 (1):11-13. National Indexed.

- 6- Mohan S, Skariah TA, Shilla E, Lewis L. - Graded oxygen delivery using low flow rotameter during positive pressure ventilation using self-inflating bag with a leak - an experimental study. Ind J Resp Care 2014; 3(1): 370-3 National Indexed

### Chapter in Book:

Sl. No	Title	Name of the faculty	Book	Publisher
1	Molecular genetics, human genome project and genomic medicine.	Girisha KM	Munjal YP Editor in Chief, API Textbook of	The Association of Physicians of India, Mumbai 2010

The details of our conference presentations have been listed below:

### Year 2012- International:

Sl. No	Title of the presentation	Name of the faculty	Details of Conference
1	Spondyloepiphyseal dysplasia with luxations, CHST3 type (Recessive Larsen syndrome): further clinical characterisation and report of a novel mutation	Parag M Tamhanar, Hitesh Shah, KM Girisha	European Human Genetics Conference, Nuremberg, Germany, 23 – 26 June, 12.
2	“Pattern of refusal to treat and abandonment in a new paediatric oncology	Anupama Borker, Narendra Chaudhary	ISOP conference, London, UK, 5 <sup>th</sup> – 8 <sup>th</sup> Oct, 12.

### National:

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1	“ Infection associated hemophagocytosis in a child with pyrexia of unknown origin”	Deepti Chopra	49 <sup>th</sup> NC IAP (Pedicon-2012), at Gurgaon, 18 – 22 <sup>nd</sup> Jan. 12
2	“Randomised trial of early versus late iron supplementation in very low birth weight infants”	Leslie Lewis, Rensa, Jayashree P, Ramesh B	Karnataka State Neonatal conference at Bangalore, 7 - 10 <sup>th</sup> Sept. 2012.
3	“Non invasive Ventilation in Preterm Neonates – Nasal continuous positive airway pressure versus nasal intermittent positive pressure ventilation – A randomised controlled trial”	Leslie Lewis, JayashreeP, Ramesh B, Skariah T	XXXII Annual convention of National Neonatology Forum, 13 - 16 <sup>th</sup> Dec. 2012.



4	Malignant Peripheral Nerve Sheath Tumor in Neurofibromatosis-1: Is metronomic chemotherapy the way to go?"	Anupama Borker, Narendra Chaudhary	Pedicon-2012, at Gurgaon, 18 – 22 <sup>nd</sup> Jan, 12.
5	“Significance of interleukin-6 (IL-6) & C-reactive protein(CRP) in children and young adults with febrile neutropenia during chemotherapy for cancer: A prospective study”	Narendra Chaudhary, Kranthi Kosaraju, Indira Bairy, Dr. Anupama B	Pedicon-2012, at Gurgaon, 18 – 22 <sup>nd</sup> Jan, 12.
6	“ Pediatric precursor B-cell lymphoblastic lymphoma presenting as extensive skeletal lesions	Narendra Chaudhary, Anupama Borker	Pedicon-2012, at Gurgaon, 18 – 22 <sup>nd</sup> Jan, 12.
7	“Cutaneous application of oil as a method of energy supplementation in LBW neonates and to compare cost effectivity between mineral oil & coconut oil”	Leslie Lewis, R Pratyusha, Jayashree, Ramesh B	Karnataka State Neonatal conference at Bangalore, 7 - 10 <sup>th</sup> Sept. 12.
8	- “Miller Dieker Syndrome - A case report”	Jayashree P, Leslie L, Ramesh B	Indo-US Symposium on Disorders of the Developing Brain Manipal, 27, 28, Oct. 2012
9	“Pfeiffer syndrome with extreme proptosis, hypothyroidism and tail like appendage”	Soundaram V, Jayashree P, Leslie L, Ramesh B, Girish K M	Indo-US Symposium on Disorders of the Developing Brain at Manipal, 27, 28, Oct. 2012.
10	“Bruck syndrome with central hypoventilation in a 34 weeks preterm neonate”	Leslie L, Girish KM, Ramesh B, Jayashree P	NEUROPEDICON 2012, Chennai, 3-4, Nov. 2012.
11	“A study of feasibility, side effects and outcome of therapeutic hypothermia in HIR.”	Jayashree P, Anusha, Leslie L, Ramesh B	NEUROPEDICON 2012, Chennai, 3-4, Nov. 2012.
12	“Hemiconvulsion-hemiplegia-epilepsy syndrome: clinical “Hemiconvulsion-hemiplegia-epilepsy syndrome: clinical course & neuroradiological	Ramesh B, Shruti K, Prakashini K	NEUROPEDICON 2012, Chennai, 3-4, Nov. 2012.



	features in a 20months old girl”		
13	– Unusual presentation of Kawasaki Disease	Nilda M, Suneel C M, Shrikiran A	Cardiology Update 2012 at Manipal, 1.11.2012
14	ALL Masquerading as tubercular pericarditis	Sana Smriti, Suneel CM, Shrikiran A	Cardiology Update 2012 at Manipal, 1.11.2012
15	“VACTERL Association with TruncusArteriosus& Unilateral Radial Aplasia in a Neonate	Soundaram V, Jayashree P, Leslie L, Ramesh B Y	Cardiology Update 2012 at Manipal, 1.11.2012
16	Clinical types, Risk factors and Immediate Outcome of Neonatal Seizures.	Ramesh Bhat Y, Sandeep P D, Leslie Lewis	XXXII National Conference of NNF, New Delhi, 13 <sup>th</sup> – 16 <sup>th</sup> December, 2012.
17	Burkholderiacepacia sepsis among outborn referrals – A neonatal case series’	Saikat P, Leslie L, Ramesh Bhat Y, Jayashree P, V Vamsi S R	XXXII National Conference of NNF, New Delhi, 13 <sup>th</sup> – 16 <sup>th</sup> December, 2012.

### Year 2013 - National:

Sl. No	Title of the presentation	Name of the faculty	50 <sup>th</sup> National PEDICON
1	Pfeiffer syndrome with extreme proptosis, hypothyroidism and tail like appendage	Soundaram V	Inborn Errors Metabolism, Kolkata. 16 - 20/1/13
2	Importance of Early Intervention in GlutaricAciduria Type 1”	Meenu	IEMCON, New Delhi, 4 – 8/4/13.
3	1. Early and effective diagnosis of inherited metabolic disorders (IMD) in suspected neonatges: A tertiary care experience.	Leslie Lewis	IEMCON, New Delhi, 4 – 8/4/13.
4	2. Case report of Methylmalonic academia.	Leslie Lewis	IEMCON, New Delhi, 4 – 8/4/13.
5	Methylmalonicacidemia – Case report	Leslie Lewis	IEMCON, New Delhi, 4 – 8/4/13.
6	Randomised trial of versus late iron supplementation in very low birth weight infants	Rensa S	PAS – SPR, Washington DC, USA, 4 - 7/5/13
7	1. VACTERL Association with an unusual congenital lumbar	Ramesh Bhat Y	IAP NEOCON 2013,Ahamadabad.

	hernia, Ear anomaly & cleft palate.		18 – 20/10/13.
8	2. Neonatal tuberous sclerosis complex with subependymal nodules & unusually large & multiple cardiac rhabdomyomas	Ramesh Bhat Y	IAP NEOCON 2013,Ahamadabad. 18 – 20/10/13.
9		Meenu	South Zone PEDICON 13, Belgaum, 19-20/10/13.
10	Common variable immune deficiency with partial albinism – a rare association.	Sandeep Kumar	South Zone PEDICON 13, Belgaum, 19-20/10/13.
11	Kikuchi-FujimootoDisease: A rare cause of Lymphadeno-pathy in pediatric population	Nathiya	South Zone PEDICON 13, Belgaum, 19-20/10/13.
12	Congenital lobar emphysema – a rare congenital malformation of lungs.	Abhinav Sahu	South Zone PEDICON 13, Belgaum, 19-20/10/13.
13	Congenital absence of Pulm valve – A rare heart defect in new borns.	Luvdeep D	South Zone PEDICON 13, Belgaum, 19-20/10/13.
14	Severe mediastinitis&Pyopneumothorax following acute retropharyngeal abscess – A rare presentation.	Luvdeep D	South Zone PEDICON 13, Belgaum, 19-20/10/13.
15	Persistent Lt. SVC draining into RA through coronary sinus with post ductal courotation& severe PAH manifesting as failure to thrive	Devang	Cardio Update 2013, Manipal. 1/11/13
16	A case report - Dysmorphic features with Congenital Heart Disease with chromosome 46xx add 11q 24.	Jayashree P	South Zone NEOCON 13, Bangalore, 16 – 17/11/13.
17	“Prophylactic Methylxanthines for facilitation of extubation in preterm neonates – A randomized controlled trial.	Md. Najih	South Zone NEOCON 13, Bangalore, 16 – 17/11/13.
18	Rt. Ventricular candidalmycetoma in a preterm	Deepa S	Mumbai, 16 – 18/11/13.

	neonate- a rare case report.		
19	“Yellow Oleander Poisoning – 2 case reports in children	Sravanthi	NCPCC 2013, Mahabaleshwar, 21 – 24/11/13.
20	Cerebral sinus venous thrombosis in a child with A L L undergoing chemotherapy	Aiswarya	NCPCC 2013, Mahabaleshwar, 21 – 24/11/13.
21	Cost effectiveness of caffeine versus aminophylline in apnea of prematurity	Md, Najih	33 <sup>rd</sup> NEOCON '13, Hyderabad, 12 – 15/12/13.
22	Nosocomial infections in very low birth weight (<1500) infants	Vamsi S R	33 <sup>rd</sup> NEOCON '13, Hyderabad, 12 – 15/12/13.
23	Neonatal Meningitis due to unusual micro organisms in a tertiary care hospital	SwathiChava	33 <sup>rd</sup> NEOCON '13, Hyderabad, 12 – 15/12/13.
24	Cerebral Cavernous Angioma in a Neonate: a case report.	Saikat P	33 <sup>rd</sup> NEOCON '13, Hyderabad, 12 – 15/12/13.
25	Neonatal Morbidity and Mortality Among Twins.	Saikat P	33 <sup>rd</sup> NEOCON '13, Hyderabad, 12 – 15/12/13.
26	Diffuse Neonatal Hemangiomas with splenic involvement	Lokanadha	33 <sup>rd</sup> NEOCON '13, Hyderabad, 12 – 15/12/13.
27	Measles; should the vaccination begin early	Aiswarya	IAP Infectious disease- KCSC, Dharwad, 14 - 15/12/13
28	Infective tropical acute kidney injury in an adolescent from rural coastal Karnataka – a case report.	Sandeep Kumar	IAP Infectious disease- KCSC, Dharwad, 14 - 15/12/13.

### Year 2013- International:

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1	Randomised trial of versus late iron supplementation in very low birth weight infants	Rensa S	PAS – SPR, Washington DC, USA, 4 - 7/5/13

2	Early Nasal Intermittent Mandatory Ventilation versus nasal continuous positive airway pressure (NCPAP) for respiratory distress syndrome in infants 28 to 36 weeks gestation a Randomised controlled trial.	Leslie Lewis	PAS – SPR, Washington 4-7/5/13DC, USA, 4- 7/5/13
3	Biochemical Abnormalities in Neonatal Seizures	Ramesh Bhat Y	30 <sup>th</sup> IN Epilepsy Congress , Canada, 23 – 27/6/13

**Year 2014 - National:**

Sl. No	Title of the presentation	Name of the faculty	Details of Conference
1	Hearing impairment In children aged 6-24mths with cerebral palsy & global devpl delay	Ramesh B Y, Harish K, Shrikiran A, Nalini B, PushpaKini	IACPCON 14, Hyderabad
2	A study on peripherally inserted central venous catheters in neonates.	Supraja M, Jayashree P, Ramesh B, Leslie L	KARNEOCON 14, Mangalore, 10 – 12/10/14.
3	Pathogens & their sensitivity patterns in neonatal sepsis.	Devang M, Shiva K, Shiney E, Jayashree P, Ramesh B, Leslie L.	KARNEOCON 14, Mangalore. 10 – 12/10/14.
4	Cardiac Troponin-T Levels in Asphyxiated Neonates	Dinesh K, Ramesh B, Leslie L, Jayashree P	KARNEOCON 14, Mangalore. 10 – 12/10/14.
5	Diagnostic & Prognostic significance of CRP in Paediatric sepsis.	Vamsi K A, Pushpa K, Nalini B, Shrikiran A	KARPEDICON 14, Mysore, 31/10 – 2/11/14.
6	IgE & Peripheral blood eosinophil in children with bronchial asthma: A Clinico observational study.	Luvdeep D, Nalini B, Pushpa K, Shrikiran A	KARPEDICON 14, Mysore, 31/10 – 2/11/14.
7	Clinical study of monosymptomatic nocturnal enuresis in children	Swathi C, Nalini B, Shrikiran A, Pushpa K	KARPEDICON 14, Mysore, 31/10 – 2/11/14.

8	Evaluation of growth, puberty & Abnormal glucose tolerance in children with beta thalassemia major on long term transfusions.	Sravanthi, ShrikiranA,Pushpa K,Nalini B.	Hyderabad, 6 – 10/11/14.
9	Effectiveness of sucrose analgesia in term neonates - A randomised controlled study.	V Lokanadh R, Leslie L, PushpaKini, Nalini B	AP NEOCON 14, Vishakapatnam,20 – 23/12/14.
10	Haddad Syndrome: a rare disease in a Neonate.	Abhinav S, Shiva G, Ramesh B, Leslie L, Jayashree P.	Child Neurocon 2014, Hyderabad, 7 - 8/2/14.
11	Congenital complete heart block in Neonate	Supraja M, Leslie L, Jayshree P, Ramesh B	SIC-CON 2014 , Manipal, 25, 26/1/14
12	Hemimegalencephaly- Capillary malformation with intractable seizures in a neonate- case report.	Sujith K, Vamsi SR, MdNajih, Jayashree P, Leslie L, Ramesh B, Girish KM.	Child Neurocon 2014, Hyderabad, 7 - 8/2/14.
13	Serratia sepsis & meningitis with intraparenchymal brain abscess in a preterm neonate	Nitish R, Leslie L, Jayshree P, Ramesh B	CIDSCON 14, Bangalore, 22 – 23/8/14
14	Central precocious puberty in a girl with suprasellar arachnoid cyst	Vamsi K, Nalini B, Sonia B, Deepti C, Meenu	KARPEDICON 14, Mysore, 31/10 – 2/11/14.
15	A case of Infantile Gaucher disease asso. with Beta thalassemia triat	Vinith C	IACPCON 14, Hyderabad, 19 – 21/9/14
16	Alphamethylacetoacetyl CoA thiolase deficiency - a rare disorder of isolucine metabolism.	Sandeep K , Anju S, Shrikiran A, Suneel M	IACPCON 14, Hyderabad, 19 – 21/9/14
17	Vitamin B12 deficiency in an infant presenting as a developmental delay	Ravi T, Nalini B, Sonia B, Deepti, Meenu	IACPCON 14, Hyderabad, 19 – 21/9/14
18	Cerebral Palsy in an Infant with chromosomE 11 abnormality” at Indian Association of Cerebral Palsy	Ramesh B, Leslie L, Jayashree P	IACPCON 14, Hyderabad, 9 – 13/10/14
19	Plasma antioxidant status of very	Jayashree P,	KARPEDICON 14, Mysore

	low birth weight neonates before and after administration of total parenteral nutrition	Leslie, Ramesh,	31/10 – 2/11/14.
20	Syndromic approach in a newborn with partial albinism and abdominal distension	Ravi T, Leslie, Ramesh, Jayashree P.	AP NEOCON 14, Vishakapatnam, 19 – 23/12/14.
21	Escobar variant of multiple pterygium syndrome in arthrogyposis multiplex congenita 2014	Nitish R, Asha H, Abhishek P	AP NEOCON 14, Vishakapatnam, 19 – 23/12/14.
22	Community acquired orbital cellulitis & disseminated MRSA sepsis with pneumatocele & Pneumothorax in term neonate.	Dinesh K, Leslie L, Jayashree P, Ramesh B	AP NEOCON 14, Vishakapatnam, 19 – 23/12/14.

### International:

Sl. No	Title of the presentation	Name of the faculty	Details of Conference
1	Megalencephaly capillary malformation syndrome- a report of two cases.	Shrikiran, Sandeep K, Suneel M, Maneesh K	3rd IN Emirates Pediatrics Neurology, Dubai, 7-8/2/14
2	Merosin deficient congenital muscular dystrophy - indication for imaging in myopathies.	Suneel M, Sandeepk, Maneesh, Shrikiran A,	3rd EIPN 2014, Dubai, 7-8/2/14
3	Hearing impairment in children aged 6-24 mths with global devdalay.	,Harish K, Ramesh B Y, ShrikiranNalini B, Pushpa K	3rd EIPN 2014, Dubai, 7-8/2/14
4	Comparison of Resuscitation, Cord Gas Parameters, Respiratory Morbidity & Ventilation Need Among Twins?.	Ramesh B, Saikat P, Leslie L, Jayashree P, Vamsi SR.	12th EPNV, Switzerland, 21 – 24/5/14.
5	Pediatric urolithiasis: what role does metabolic evaluation have to play?	Sonia Bhatt, Nalini B, D Chopra, J Thomas, D Mishra	ESD 2014, Cape Town S. Africa, 10-13/12/14.

## 12. Placement record of the past students and the contribution of the department to aid student placements.

Nil

## 13. Plan of action of the department for the next five years–

- The department's plan of action is to work in synergy with the college in implementing the mission statement of the college.
- To impart good training in basics of Paediatrics to undergraduates.
- To impart good training to postgraduates in order to enable them to be competent Paediatricians.
- To render good patient care to all children admitted in the tertiary care referral centre.
- To promote research activity at faculty, PG, UG level in collaboration with national & international funding agencies.



**1. Name of the Department: Anaesthesiology – KMC, Manipal.**

**2. Faculty Profile – adequacy and competency of faculty**

**Faculty Profile**

The department of Anaesthesiology, Kasturba Medical College, Manipal consists of 6 Professors, 4 Associate Professors, 8 Assistant Professors and 16 Senior Residents with total of 34 faculty, catering to the teaching requirements of undergraduates (MBBS students), Postgraduate (MD & DA) and also meeting the requirements of Dental students. All the faculty members are fully qualified to conduct clinical work and carry out academic activities as per the regulatory body requirements.

**Faculty List**

Sl. No	NAME	Qualification	Designation	Teaching experience in years
1	Dr N Anitha	MBBS, MD	Professor & Head	27
2	Dr GurudasKini	MBBS, MD	Professor	34
3	DrRamkumarVenkateswaran	MBBS, MD	Professor	34
4	Dr U KailasnathShenoy	MBBS, MD	Professor	31
5	DrManjunathPrabhu	MBBS, MD	Professor	21
6	Dr Krishna H M	MBBS, MD, DNB	Professor	13
7	Dr Shaji Mathew	MBBS, MD	Assoc. Prof.	13
8	Dr Shwethapriya R	MBBS, MD	Assoc. Prof	11
9	DrMalavika	MBBS, MD	Assoc. Prof	8
10	Dr Arun Kumar H D	MBBS, MD	Assoc. Prof	9
11	DrRohit K	MBBS, MD	Asst. Prof.	8
12	DrLokvendra Singh Budania	MBBS, MD	Asst. Prof.	5
13	DrLaxmiShenoy	MBBS, MD	Asst. Prof.	5
14	DrAmrut K Rao	MBBS, MD	Asst. Prof.	4
15	Dr PatilNitinTanajirao	MBBS, DNB	Asst. Prof.	4
16	Dr YogeshGaude K	MBBS, MD	Asst. Prof.	4
17	Dr BasavarajHerekar	MBBS, MD	Asst. Prof.	6
18	Dr PawanNanjangud	MBBS, MD	Asst. Prof.	4
19	Dr SandeshShetU	MBBS, DNB	Senior Resident	6
20	Dr Rama Rani	MBBS, MD	Senior Resident	3

21	Dr Nita Varghese	MBBS,MD,DNB	Senior Resident	3
22	Dr MadhuRao	MBBS,MD,DNB	Senior Resident	3
23	Dr ShriramVaidya	MBBS,MD,DNB	Senior Resident	4
24	Dr SiriKandavar	MBBS, MD	Senior Resident	3
25	Dr Goyal Kush Asshokumar	MBBS, MD, DNB	Senior Resident	5
26	Dr Archana R Bhakta	MBBS, DA	Senior Resident	11
27	Dr Jayanth A Navada	MBBS, DA	Senior Resident	10
28	Dr Roshan Kumar Shetty	MBBS, DA	Senior Resident	5
29	Dr Bhavya PJ	MBBS, MD	Senior Resident	5
30	Dr Priyanka G Kini	MBBS, MD	Senior Resident	4
31	Dr Sagar M S	MBBS, MD	Senior Resident	4
32	Dr AbhishekRaoKordkal	MBBS, MD	Senior Resident	4
33	Dr Ajith Kumar Pillai	MBBS, MD, DNB	Senior Resident	4
34	Dr Bharath	MBBS, MD	Senior Resident	4

Category	Sanctioned	Filled
Teaching staff	20	18
Senior Resident	14	16

- There are 44 Junior Residents working in the department

### 3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

MBBS graduates from any medical college in India, recognized by the Medical Council of India can appear for the All India postgraduate entrance test (PGET) conducted by the Manipal University. Our student population consists of postgraduate students for Diploma as well as Master's Degree in Anaesthesiology. The PGET is conducted on the basis of merit and consists of multiple choice questions drawn from all undergraduate subjects of MBBS. Rank list is published on the basis of merit. The student gets to choose the subject in Open Counseling conducted by Manipal University once every year in April and May. Our student population consists of people from all over India and is not restricted to any particular state or region.

Since the students come from different states, they may not possess knowledge of local languages. They are provided classes in Kannada (on voluntary basis). The students come from families with reasonable socioeconomic status.

Year	Profile of PG students admitted		Entry level competency
	Name	From where	
2013-2014 MD Degree	Dr AnnuTheagrajan	Tamil Nadu	MBBS
	Dr ChamalaVamsidhar	Karnataka	MBBS
	Dr NayanaNemani	Andhra Pradesh	MBBS
	Dr Swarup Ray	West Bengal	MBBS
	Dr Sushma T K	Karnataka	MBBS
	Dr Sethulakshmi Prasad	Kerala	MBBS
	Dr Nandini Joseph	Kerala	MBBS
	Dr MadhumithaUdaysankar	Tamilnadu	MBBS
	Dr Kavya R Upadya	Karnataka	MBBS
	Dr K P Satyanarayana	Andhra Pradesh	MBBS
	Dr Nithin Mathew	Kerala	MBBS
	Dr B K Deepak	Andhra Pradesh	MBBS
Diploma	Dr VijayakrishnaVaka	Andhra Pradesh	MBBS
	Dr VakadaSravanthi	Andhra Pradesh	MBBS
	Dr Lakshmi Bhavana	Andhra Pradesh	MBBS
2014-2015 MD Degree	Dr AmitVikram Das	Orissa	MBBS
	Dr BhumireddySuneel Reddy	Andhra Pradesh	MBBS
	Dr KritiPuri	New Delhi	MBBS
	Dr Nikkhil Gupta D	Tamil Nadu	DA
	Dr RamziAboo Abdul Rahiman	Dubai	MBBS
	Dr Eeshwar MV	Tamil Nadu	MBBS
	Dr Renganathan S	Tamil Nadu	DA
	Dr Anshu	Bihar	MBBS
	Dr YaminiDudeja	New Delhi	MBBS
	Dr BattinaMaheswaraRao	Andhra Pradesh	MBBS
	Dr Chuchendra LS	Karnataka	MBBS
Dr VogireddyRamya Krishna	Andhra Pradesh	MBBS	
Diploma	Dr Shravan Kumar AV	Andhra Pradesh	MBBS
	Dr Sneha K	Kerala	MBBS
	Dr SuryanarayanaChekkapalli	Andhra Pradesh	MBBS
	Dr Sriwardhan G	Andhra Pradesh	MBBS

**5. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.**

All the courses in the department (DA and MD) are recognized by the Medical Council of India (MCI). The last MCI inspection was held and the number of MD

(Anaesthesiology) seats were increased from 8 to 12. In all, we have 16 postgraduate seats (12 MD and 4 DA) from the academic year 2014-15.

The following changes were discussed / made in the postgraduate studies as decided in the Board of Studies meeting held on 13<sup>th</sup> March 2013.

1. Change of theory question paper pattern applicable to MD/DA programmes from the academic year 2013-14. It has two essay questions of 15 marks each and ten short answer questions of 7 marks each. All the PG departments submitted the question papers as per the new pattern.
2. The specification table was prepared by KMC, Manipal and Mangalore and they were finally corrected and finalised by Chairman of Board of Studies.
3. The department of Anaesthesiology, KMC, Manipal and Mangalore prepared five sets of question papers each for both MD and DA (totaling ten sets) according to the new specification table and they were sent to the Registrar, Evaluation 2 months before next examination. The question papers does not have subdivisions such as a, b, c etc. The question papers are prepared and corrected by a senior level faculty (Professor and Associate Professor).
4. Postgraduates should attend and present a paper in a conference before appearing for MD and DA examinations. Publishing their thesis is not compulsory but encouraged.
5. All the theses were personally peer-reviewed and signed by the Head of the Department. The responsibility of thesis evaluation lies with the thesis guide and co-guide.
6. The external examiners should be from outside the state. They should have a minimum of 11 years post-MD experience. Senior Professors are desirable.
7. Appointment of adjunct staff members from other universities was suggested as well as exchange teaching programme between Manipal and Mangalore faculty.

#### 6. Trends in the success and drop-out rates of students during the past two years

Month and Year	PASS %	
	MD	DA
April 2013	100%	100%
April 2014	100%	100%

A) Available Clinical Material: (Data only for the department of Anesthesiology)

Anaesthesia services: Being a clinical service department, much of the learning is 'bedside' in the operation theatres as well as other locations where these services

are provided. In addition to routine anaesthesia services for general surgery, orthopaedics, obstetrics and gynecology, otolaryngology, ophthalmology and maxillofacial surgery, we also provide speciality Anaesthesia Services to cardiothoracic, neurosurgery, urology, surgical oncology, paediatric surgery and plastic surgery.

The details are as follows:

- Total Average daily operations: Major: 68            Minor: 28
- Available operative load /week/ unit: Average of (on working days)—Weekly Average Operations – 578 (Major + Minor)
- Average daily deliveries: Normal (vaginal): 2    Operative (Caesarians): 4
- Year-wise available clinical materials (during previous three years for the operative and the delivery load):

Parameters	Year 2013	Year 2014
Total number of Major Surgeries	19995	20499
Total number of Minor Surgeries	9516	8606
Average daily operative load for Major & Minor Surgeries	98	96
Total number of deliveries – Normal, CS and Instrumental	1652	1642

B) Average Daily Total operations under anaesthesia:

	Surgery	Eye	ENT	Ortho.	OBG	Other	Total
Major	15	4	6	16	7	19	68
Minor	7	1	0.35	5	5	11	28
Emergency	12			4	1		17
Average daily total operations under Regional Anaesthesia	15	-	-	14	3	3	35

Anaesthetic arrangements for:

- **Diagnostic Procedures:** The institution has well-equipped cardiac catheterisation and digital subtraction angiography laboratories with biplane image intensifier and cineangiography. The main radiology unit has image intensifiers in every room. On an average, each postgraduate gets the opportunity to conduct (under supervision

of a faculty member) the anaesthetic management of at least 10 cardiac catheterisations, permanent pacemaker implantations and gastrointestinal endoscopies during their course.

- **Monitored Anaesthetic Care (MAC):** MAC is provided for selected patients of various surgical specialties including but not restricted to cardiac catheterisation and bronchographies. One consultant anaesthesiologist and a postgraduate student are designated for each case. The standard of anaesthesia care is the same as for patients coming for general anaesthesia with monitoring including 5-lead ECG, noninvasive blood pressure, pulse oximetry and end-tidal carbon dioxide and other parameters depending upon the type and nature of surgery.
- **Diagnostic and Therapeutic Nerve Blocks:** Therapeutic neurolytic blocks (such as coeliac plexus block) are given to patients suffering from terminal cancer pain. Other chronic pain states (such as myofascial pain and sympathetic maintained pain) are also dealt with using such blocks.
- **Day Care Surgery:** Provided for appropriate cases in the regular operating rooms. There is no separate Day Care Facility available.
- **ICU/accident, emergency & resuscitation:** The department runs a 13-bed Multidisciplinary Intensive Care Unit (MICU) catering to adult and paediatric patients needing advanced cardiovascular and respiratory monitoring and support. The 24-hour facility with modern microprocessor based ventilators and state-of-the-art multimodular patient monitors are manned round-the-clock by a team of 2 Anaesthesiology faculty and 4 postgraduates.
- The MICU team also responds to the “Code Blue” calls and other resuscitation calls from medical/ trauma triage. The team is well versed in resuscitation protocols such as basic and advanced cardiac life support.
- **Pain Management:** The department runs a Pain Clinic supervised by a senior faculty member. A postgraduate is posted for 1 month rotations. In addition to managing acute postoperative pain using standard techniques such as continuous epidural analgesia and patient-controlled analgesia, the division also caters to management of chronic pain conditions (benign as well as cancer-related).

i) Operation theatres:

Numbers: 25

- **Anaesthetic equipments in each theatre:** Anaesthesia workstation including multimodular patient monitors, syringe infusion pumps, body and fluid warmers as per the needs of the case, shared defibrillators.
- **Lighting arrangement/Air-conditioning:** Ceiling-mounted, high-luminous intensity, twin-overhead lights with 3 and 5 lamp heads per set. The air-conditioning is central.

- Central supply of O<sub>2</sub>, Anaesthetic gases and suction: Operating rooms and ICUs have centralized medical gas supply. Oxygen is supplied from a liquid oxygen tank with 2 bulk cylinder manifolds as a backup. Nitrous oxide is from a manifold bank. Compressed medical grade air and centralized suction facilities are also available. The medical supply area is manned round the clock by trained personnel.
  - Special equipments
  - Anaesthetic drugs: All standard anaesthetic and para-anaesthetic drugs are available.
- ii) Pre-anaesthetic clinic (PAC): Average pre-anaesthesia checkups/week: About 15 patients are evaluated in pre-anaesthesia clinic every day.
- iii) Pain clinic: Around five to eight patients are referred to the Pain Clinic for provision of acute pain relief every day. Around 2-3 OPD patients are referred to the pain clinic every day. The Pain Clinic is manned by a postgraduate under the supervision of a Consultant Anaesthesiologist.
- iv) Intensive care unit: ICU 1 – manned by Department of anaesthesia with four postgraduates and two consultant anaesthesiologists working in twelve hour shifts. There are 13 beds with an average bed occupancy of 80-90%.

#### C) Other learning resources – computers, classroom and departmental library

Computers: The department of Anaesthesiology, KMC, Manipal has 6 units, a complete teaching complement. All the faculty and students have been provided with laptops. The department is Wi-Fi enabled. Each operating room has a desk top computer with internet facilities. We have eight desktop computers and two multifunctional printers and one laser printer.

Classrooms: The department has the use of two fully air-conditioned classrooms, one with a seating capacity of 35-40 and the other 50, both with desktop computers, overhead mounted LCD projectors and projection screen.

Departmental library: The department has an air-conditioned departmental library with 195 books and journals.

## 6. MODERN TEACHING METHODS PRACTICED AND THE USE OF ICT IN TEACHING-LEARNING

The teaching process involves imparting knowledge and using psychomotor skills in actual situation. A postgraduate student is posted in individual operating room along with a Consultant, thus allowing ‘hands-on’ training on a one-on-one basis. Since the



students are posted in all the theatres and outside locations, there is wide coverage of anaesthetic practices.

Anaesthesiology postgraduate classes are held between 0745 and 0845 hours on three to four days a week in CCTV room of main operation theatres or in the Seminar room 1 in Women and Children's block. These rooms have a ceiling mounted LCD projector, computer and a projection screen.

The classes are distributed as follows: One lecture per week by faculty, one or two case discussions presented by postgraduates and moderated by two faculty and one class for journal club presentation, topical reviews and such by postgraduates/faculty. In addition, there are pilot and final thesis presentations scheduled as required on other days. Problem cases are discussed in clinical anaesthesia conferences.

Simulators are available in a centralized facility housed in the Medical Simulation Centre where postgraduates are trained in simulated scenarios. Regular critical incident simulations including cardiac arrests, near cardiac arrests are discussed to train people in handling critical incidents.

PG dissertation: Postgraduates registered for MD are allocated their thesis guides and co-guides within 3 months of joining the department. Postgraduates are expected to submit protocol to the ethical committee for clearance within 4 months and to the University by 6 months from the date of joining the department. A pilot study is mandatory. Postgraduates must begin their study latest by the end of the year. Once completed, the results of the thesis are discussed in the department. Once approved, it is submitted to the University six months prior to University exams.

Departmental award: An award has been instituted by ex-postgraduates and current faculty in the name of Dr PhaneendraNathThota, former Professor and Head, Department of Anaesthesiology, Kasturba Medical College, Manipal. The award is titled, 'Dr Thota academic excellence award' and is given to the best outgoing postgraduate in DA and MD (Anaesthesiology).

Evaluation of postgraduates:

The performance of postgraduates is evaluated periodically through examination that tests their knowledge and skills. Such tests are conducted at the end of every year of their course. Thus, the Diploma students have two evaluations and the MD degree students have three evaluations. In addition, postgraduates are graded by faculty members based on important aspects of development such as knowledge, its effective application in daily work, efficient handling of clinical work, interaction with patients

and their families, behaviour with colleagues, their honesty, integrity and reliability. The overall grading along with the academic performance in both departmental evaluations and university examinations is used in judging the Best Outgoing Postgraduate for the award of ‘Gold Medal’, one from the Diploma batch and one from the MD batch. This award is considered prestigious and coveted, thus making it a strong motivation for the students to perform better.

**7. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

All teachers are engaged in actively teaching both undergraduates and postgraduates. Postgraduate teaching is the major responsibility. The students receive ‘hands-on’ training, work very closely with the staff and have a one-to-one teaching-learning everyday by the bedside. There is an opportunity for them to openly discuss and clarify their doubts with the faculty freely. Dissertations are done under the guidance of guides and co-guides. They are also free to approach any other faculty regarding thesis.

**8. Details of faculty development programmes and teachers who have been benefited during the past two years.**

The faculty regularly attend conferences and workshops, both national and international. They are also encouraged to take up the Basic and Advanced Cardiac Life Support courses, Fundamental Critical Care Support (FCCS) courses and regional anaesthetic workshops. Some of them take part in these workshops as instructors.

Many of our faculty have attended teaching-learning workshop, evaluation workshop etc. Some staff members are active in the administrative functioning of the hospital and are members or chairpersons of various committees, including Disaster management, CPR committee, Blood transfusion committee, Brain death certification committee and Medical Advisory Board.

**9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research.**

All the teachers take part in academic activities teaching undergraduates, postgraduates etc. These include theory classes, bedside teaching, helping students with their presentations, thesis, conference presentations, periodic evaluation and conducting mock tests.

**10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.**

The department has collaborated with other departments from time to time for academic and research purposes. Many of the postgraduate theses have been done in

collaboration with biochemistry, pulmonology, surgery, medicine, otolaryngology etc.

Dr RamkumarVenkateswaran is the President of the All India Difficult Airway Association (AIDiAA). Many other faculty are members of this society and are active participants.

We have visiting faculty addressing the department from time to time

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Dr AnithaShenoy(Nileshwar) is Chief Editor of the Indian Journal of Respiratory Care, a national journal published by the Manipal Univeristy Press. It is biannual, at present and caters to the academic needs of anyone interested in respiratory care including respiratory therapists, anaesthesiologists, intensivists, pulmonologists and critical care nurses.

#### Ongoing

Category	Number
Funded Research Projects	0
Non-funded Research Projects	0
PhD research projects	0
PG research projects	9
UG Research projects	0

#### Last 2 years (2013-2014)

		2013	2014
Completed Funded Research Projects		0	0
Completed non-funded Research Projects		0	0
Completed PhD Research Projects		0	0
Completed PG Research Projects		9	9
Completed UG Research Projects		0	0
Publications	International	5	6
	National	41	17
Books		0	0
Chapters in books		1	0
Conference presentations	International	4	2
	National	42	34

Dr Anitha Shenoy is Chief Editor of the Indian Journal of Respiratory Care, a national journal published by the Manipal University Press. It is biannual, at present and caters to the academic needs of anyone interested in respiratory care including respiratory therapists, anaesthesiologists, intensivists, pulmonologists and critical care nurses.

#### A) JOURNAL PUBLICATIONS: 2013

##### (INTERNATIONAL – INDEXED / NON-INDEXED)

1. Karippacheril JG, Umesh G, Nanda S. Assessment and confirmation of tracheal intubation when capnography fails: a novel use for an USB camera. *J ClinMonitComput.* 2013; 27:531-3.
2. Umesh G, Tim TJ, Prabhu M, Prasad KN, Jasvinder K. Umesh's intubation detector (UID) for rapid and reliable identification of tracheal intubation by novices in anaesthetised, paralysed adult patients. *J ClinMonitComput.* 2013; 27:517-20.
3. Umesh G, Joseph Tim T, Paul A, SamadAmjad A. Difficulty in the diagnosis of a retained guidewire within the central venous catheter. *J CardiothoracVascAnesth.* 2013; 27:e25-6.
4. Mathew S, Umesh G, Arun Kumar HD, Srinivasan NM. Anaesthetic management of a child with corrected transposition of great vessels undergoing non-cardiac surgery. *Saudi J Anaesth* 2013; 7:200-2.
5. Umesh G, Magazine R, Agonal gasps of cardiac arrest victim can aid in confirming tracheal intubation using Umesh's intubation detector, *ActaAnaesthesiologicaTaiwanicaActaAnaesthesiol Taiwan.* 2013 Sep;51(3):133-4.
6. Dr Shaji Mathew, Dr Umesh, Dr Arunkumar HD. Anaesthetic management of a child with converted transposition of great vessel undergoing non cardiac surgery. *Saudi Journal of Anaesthesia.* April- June 2013.

##### National Indexed / Non-indexed)

7. Shenoy R, Agarwal N, Goneppanavar U, Shenoy A, Sharma A. Symmetrical peripheral gangrene – a case report and brief review. *Ind J Sur* 2013; 75:163-5.
8. Goneppanavar U, Prabhu M. Anaesthesia machine: Checklist, hazards and scavenging. *Indian J Anaesth.* 2013 Sep;57(5):533-540.
9. Kharmalki RG, Shenoy A, Johnson S. Utility of rapid shallow breathing index in progressive weaning of adult patients from mechanical ventilation using pressure support ventilation. *Ind J Resp Care* 2013; 2:213-9.
10. Todur P, Johnson S, Shenoy A. Utility of arterial to end-tidal carbon dioxide difference as a weaning index. *Ind J Resp Care* 2013; 2: 227-32.
11. Swethapriya R, Shenoy A, Nittala A. Tracheo-oesophageal fistula – A disastrous complication of endotracheal intubation. *Ind J Resp Care* 2013; 2: 238-40.

12. Mahto HL, Shanbhag V, Shenoy A. Efficacy of recruitment manoeuvre with or without antiderecruitment strategy in ARDS patients: A prospective study. *Ind J Resp Care* 2013; 2:284-91.
13. Sasikumar S, Shanbaug V, Shenoy A. Comparison of pressure support ventilation and proportional assist ventilation plus for weaning from mechanical ventilation in critically ill patients. *Ind J Resp Care* 2013; 2: 292-8.
14. John PJ, Johnson S, Shenoy A. Comparison of five weaning indices from mechanical ventilation. *Ind J Resp Care* 2013; 2: 299-306.
15. Sayeed T, Shenoy A, Goneppanavar U. Comparison of the safety and effectiveness of dexmedetomidine with a combination of midazolam and fentanyl for sedation during awake fiberoptic nasotracheal intubation. *Ind J Resp Care* 2013; 2: 320-7.
16. Kamath S, Shenoy A. Anaesthetic management of a huge mediastinal tumour with tracheobronchial compression. *Ind J Resp Care* 2013; 2: 328-31.
17. Karippacheril JG, Umesh G, Ramkumar V. Inexpensive video-laryngoscopy guided intubation using a personal computer : Initial experience of a novel technique.  
*J Clin Monit Comput* 2013 Oct 17 (Epub ahead of print)
18. Ramkumar V, Souvik C, Deepak KM. Comparison of intubating conditions of low dose rocuronium versus succinylcholine in adults : A randomised, double blind study. *Anesthesia Essays and Researches* 2012;6:62-8.
19. Child with bilateral pheochromocytoma with solitary kidney – Anaesthetic challenges – *Saudi Journal of Anaesthesia* April – June 2013.
20. Krishna HM. Nosocomial pneumonia .*Ind J Resp Care* 2013; 1(2) : 94-100
21. Krishna HM, Shetty N, Vinodhadevi V. Airtraq in difficult / failed intubation. *Sri Lankan Journal of Anaesthesiology* 2013; 21(1) : 32-5
22. Krishna HM, Kundu R. Adult face mask for inhalational induction in a child with maxillofacial surgery. *Anesth Essays Res* 2012; 6:215-7
23. Safe intubation in Morquio-Brail's ford syndrome – a challenge for the anaesthesiologist. *JOACP* April- June 2013. Dr Souvik Choudhuri, Dr Arunkumar HD, Dr Shaji Mathew, Dr Sandeep
24. Dilemma about arterial placement of subclavian central venous catheter after radiography – Lessons learnt in a case of mediastinal shaft. *Indian Journal of Anaesthesia*. Dr Shaji Mathew, Dr Kush Goyal, Dr Souvik Choudhuri, Dr Arun Kumar HD
25. Mean versus Median in Tables and figures. *Anesth Analg* June 2013
26. A prospective observational study of the outcome of central venous catheterization in 100 patients. *Anaesthesia Essay and Researches*
27. Dr Prasad KN, Jyothsna M, Kailasnath Shenoy U. 'Comparison of gum elastic bougie and malleable stylet as aid to intubation during application of cricoid

- pressure”. A prospective randomized controlled study. *Ind J Resp Care* 2013; 2: 200-5
28. KN Prasad, PrabhuManjunath, L. Priya, Sanjay SASikumar “Overcoming the problem of pseudohypoxemia in mycloprolifertivedisorders : Another trick in the bag. *Indian J Crit Care Med* 2013; 16: 210-2
  29. Narasimha PK, Chaudhury S, Joseph TT. Utility of Intra-operative ultrasound in choosing the appropriate site for blood pressure in Tarayasu’s arteries. *Indian J Anaesth* 2013; 57: 66-8.
  30. Assessment and confirmation of tracheal intubation when capnography fails. A novel use for an USB camera. JG Karippacheril, G Umesh, S Nanda. *Journal of Clinical monitoring and computing* 2013.
  31. Myocarditis after thymoma resection with left ventricular hypokinesia mimicking acute coronary syndrome. J G Karippacheril, R Shetty, SCV Sagar. *Journal of Anaesthesia* 2013.
  32. *Journal of Clinical monitoring and computing* – Umesh’s Intubation detector for rapid and reliable identification of tracheal intubation by novices in anaesthetized paralysed adult patients. Dr Umesh G, Tim TJ, Prabhu M, Prasad KN, Jasvinder K. (*J ClinMonitComput* 2013 Oct; 27 (5) : 51-7-20)
  33. Peculiar breathing in Rett’s syndrome :Anaesthesiologist’s nightmare – *Journal of Anaesthesiology Clinical Pharmacology* April –June 2013.
  34. Safe intubation of Morquio Brail’s ford syndrome : A challenge for the anaesthesiologist.

JOACP April – June 2013

35. Airway management in Esopharsyndrome : A formidable challenge. Accepted – *IJA* 2013
36. Shetty N, Krishna R, Sayeed T. Use of Airtraq as a rescue device in IntenwiveCareUnit. *Ind J Resp Care* 2013; 2:244-6
37. Umesh G, Krishna R, Tim, Souvik, Shwetha. E-O Technique in superior to E-C technique in Manikins during single person bag mask ventilation performed by novices. *Journal of clinical monitoring and computing*.
38. Utility of intra operative ultrasound in choosing the appropriate site for blood pressure monitoring in Takayasu arteritis. *Indian Journal of Anaesthesia* 2013; 57: 66-8. Prasad KN, SouvikChoudhuri, Tim Thomas
39. Selection of appropriate size endotracheal tube in cases of large goiters causing tracheal compression. *Anaesthesia Essays & Researches*. Cherish Paul, SouvikChoudhuri, Tim Joseph. Vol 6, Issue 2, 2013
40. Displacement of optimally placed subclavian central venous catheter by dialysis catheter – Retrospection after radiography – *Journal of Anaesthesiology Clinical Pharmacology*. Accepted 2013

Dr Arunkumar HD, Dr SouvikChoudhuri, Dr Shaji Mathew, Dr Kush Goyal



41. Comparison of I Gel with Proseal LMA in adult patients undergoing elective surgical procedures under general anaesthesia without paralysis – A prospective randomized study – Accepted. JOACP. Prof. GurudasKini, Dr Gopalakrishna MD, Dr KoteswaraRao, Dr SouvikChoudhuri.

B) JOURNAL PUBLICATIONS: 2014  
(INTERNATIONAL – INDEXED / NON-INDEXED)

1. Umesh G, Rohith K, Souvik C, Thomas T, Shwethapriya R. E-D technique is superior to E.C. techniques in manikins during single person bag mask ventilation performed by novices- Journal of clinical monitoring and computing. 2014; 28 (3):269-73.
2. NithinPatil: A case report – A rare case of Tracheal bronchus – A challenge for Anaesthesiologist – submitted for publication to JCRA – Indexed International – waiting for confirmation
3. Shaila S Kamath, Amrut K Rao. Comparison of 2u & 5u of Cytocin bolus doses followed by infusion in patients undergoing elective C-section .– Asian Journal of Pharmaceutical & Health Sciences February 2014
4. Rao M, Nileshwar A, Nandeeshan N. Comparison of the C-MAC™‘D’ blade with AirTraq® for endotracheal intubation in patients with simulated limitation of cervical movements. Ind J Resp Care 2014;3:357-63.
5. Johnson S, Nileshwar A. Rhythm and outcome of patients who had in-hospital cardiac arrest in a tertiary care hospital. Ind J Resp Care 2014;3:421-5.
6. Shenoy A. Acute coronary syndromes in India – Call for help? Ind J Resp Care 2014;3:427-30
7. Arul H, Shenoy A, Kaur J. A comparative study of paediatric endotracheal tubes available in the Indian market – a bench study. Ind J Resp Care 2014; 3: 431-9.
8. Devasia L, Mahto LM, Shenoy A. Effect of oxygen injection sites on fraction of delivered oxygen (FDO<sub>2</sub>) during noninvasive ventilation – AN experimental lung model study. Ind J Resp Care 2014; 3: 440-3.
9. Phakdon T, Shilla E, Johnson S, Shenoy A. Clinical features, management and outcome in patients admitted with liver cirrhosis to the ICU – A retrospective study. Ind J Resp Care 2014; 3: 455-9.
10. Nanjangud P. Percutaneous tracheostomy. Ind. J. Resp. Care 2014;3(2):488-496.
11. Nanjangud P. Anaesthetic management of a child with anterior mediastinal mass with superior vena cava obstruction and thrombocytopenia. Ind. J. Resp. Care; 3(2): 504-508.
12. Rao M, Nileshwar A, Nandeeshan N. Comparison of C-MAC ‘D’ blade with Airtraq for endotracheal intubation in patients with simulated limitation of cervical movements. Ind. J Resp Care 2014; 3(1):357-64.



13. Handle old laryngoscopes with care. Vaidya S, Gupta SL, R P, SatyaPrakash MV: JMJ Resp. Care November 2014.
  14. Caffeine for the prevention of postoperative nausea and vomiting – Few comments; Vaidya S, Saran PS, Goyal Kush, Kamble D; J AnaesthesiolClinPharmacol 2014 Oct : 577
  15. Achar SK, Chaudri S, Krishna HM, Sagar M.S. Re-expansion pulmonary oedema – differential lung ventilation comes to the rescue. Indian Journal of Anaesth. 2014;58:330-3
  16. Kulkarni M, Shenoy L, Sagar M.S. Anaesthetic management of a pregnant patient undergoing after splenectomy for hypersplenism. Anaesthesia Essays and researches 2014;8:303-6.
  17. JanardhanAithal, ArchanaBhakta. Epidural steroids; Does the level of injection make any difference in pain relief and outcome? –International Journal of Biomedical Research. 2014;5:12.
- Dr. AnithaShenoy is Chief Editor of the Indian Journal of Respiratory Care.

#### Conference Presentations : 2013

Dr AnithaNileshwar

1. Invited faculty at Be-Orate, a CME for exam going postgraduates held in March 2013 at Bangalore. Conducted case discussions on ‘Obstructive jaundice and anaesthesia’ and ‘Arterial blood gases.’
2. Invited faculty at the Anaesthesia Review Course (ARC) held at Tata Memorial Hospital, Mumbai from 29<sup>th</sup> March 2013 to 31<sup>st</sup> march 2013. Conducted case discussions on Diabetes mellitus and emergency surgery, kyphoscoliosis and anaesthesia and COPD and anaesthesia.
3. Invited faculty at ISATRICON 2013, held at Kovalam, Trivandrum in May 2013 and delivered a talk on Postoperative Care and was a panelist on “Obstetric anaesthesia in India’.on May 12<sup>th</sup>, 2013.
4. Invited faculty at PONSZAC, the south zone conference of Indian Society of Anaesthetists held at Pondicherry. Delivered a lecture on Monitoring – what is necessary, useful and futile on 23<sup>rd</sup> August 2013.
5. Attended the Fundamental Critical Care Support Course (FCCS) held by the Indian Society of Critical Care Medicine in August 2013.
6. Invited faculty at KISACON 2013, held at Bangalore and delivered a lecture on Burns – Critical Care Perspectives (14<sup>th</sup> September 2013). Also chaired a session on What is new in airway management (13<sup>th</sup> September 2013) and was one of the judges for e-poster presentations.
7. Chaired a session on Trauma and Obstetrics at the National Conference of the Association of Obstetric Anaesthetists at Mangalore on 6<sup>th</sup> October 2013.

8. Invited faculty at the Seventh National Conference of Indian Association of Respiratory Care, at Kochi. Delivered a talk on 'Recruitment manoeuvres – Fact or fiction'. On 18<sup>th</sup> October 2013.
9. Invited faculty at WAD 2013, a biennial anaesthesia conference held at Mumbai. Delivered a lecture, "Effect of anaesthesia and other intraoperative events on cardiovascular system" and was a resource person for two workshops, one on 'Central venous cannulation' and another on 'Oesophageal Doppler' on 25<sup>th</sup> October 2013. Delivered a lecture on 'Strategies for difficult intraoperative ventilation' on 26<sup>th</sup> October 2013.
10. Invited faculty at the Advanced workshop on Regional Anaesthesia held at Hyderabad from November 9<sup>th</sup> and 10<sup>th</sup>, 2013. Delivered three lectures: Ultrasound Guidance for Regional Anaesthesia The Journey Thus Far, Current Status & Future possibilities, Spoke Pro on a debate on High Volume Local Infiltration Analgesia(LIA)following total knee arthroplasty is effective and a How I do it session on Popliteal nerve block. Also participated in a 'hands on' session on supraclavicular nerve blocks.

Dr RamkumarVenkateswaran

1. AIRWAY CHALLENGES IN THE NEUROSURGICAL PATIENT. TMC National Conference on The Difficult Airway (TMC-DAC 2013), Tata Memorial Centre, Mumbai, 6<sup>th</sup> to 8<sup>th</sup> December 2013
2. Problem-Based Case Discussion on AIRWAY MANAGEMENT IN A PATIENT WITH HEAD AND CERVICAL SPINE TRAUMA (FULL STOMACH).  
TMC National Conference on The Difficult Airway (TMC-DAC 2013), Tata Memorial Centre, Mumbai, 6<sup>th</sup> to 8<sup>th</sup> December 2013
3. Pro-Con Session on CANNOT VENTILATE AFTER INDUCTION – I WILL NOW GIVE A RELAXANT. TMC National Conference on The Difficult Airway  
(TMC-DAC 2013), Tata Memorial Centre, Mumbai, 6<sup>th</sup> to 8<sup>th</sup> December 2013
4. DIABETIC KETOACIDOSIS IN A PATIENT WITH BOWEL PERFORATION. International Symposium on Endocrine Anesthesia, Delhi, 30<sup>th</sup> November and  
1<sup>st</sup> December 2013
5. SIMULATION IN AIRWAY MANAGEMENT. 4<sup>th</sup> National Airway Conference, Siliguri, 8<sup>th</sup> to 10<sup>th</sup> November 2013
6. Panel Discussion on DIFFICULT AIRWAY SCENARIOS. 4<sup>th</sup> National Airway Conference, Siliguri, 8<sup>th</sup> to 10<sup>th</sup> November 2013
7. CONQUERING THE DIFFICULT AIRWAY. 37<sup>th</sup> ISACON Kerala 2013, Perinthalmanna, 25<sup>th</sup> to 27<sup>th</sup> October 2013

8. Workshop on ANAESTHESIA MACHINE AND CIRCUITS. 37<sup>th</sup> ISACON Kerala 2013, Perinthalmanna, 25<sup>th</sup> to 27<sup>th</sup> October 2013
9. NON-INTUBATION USES OF FLEXIBLE FIBRESCOPE. Workshop on Fibreoptic Airway Management, Vadodara, 14<sup>th</sup> to 16<sup>th</sup> July 2013
10. WHAT TO DO WHEN FIBREOPTIC INTUBATION FAILS. Workshop on Fibreoptic Airway Management, Vadodara, 14<sup>th</sup> to 16<sup>th</sup> July 2013
11. APPLIED AIRWAY ANATOMY (INCLUDING ENDOSCOPIC ANATOMY). Workshop on Fibreoptic Airway Management, Vadodara, 14<sup>th</sup> to 16<sup>th</sup> July 2013
12. Panel Discussion on ICU CARE AND POSTOPERATIVE PAIN MANAGEMENT. ACT-2013, Thrissur, 7<sup>th</sup> July 2013
13. PERIOPERATIVE MANAGEMENT OF CHRONIC SUBDURAL HAEMATOMA. ACT-2013, Thrissur, 7<sup>th</sup> July 2013
14. SIMULATED AIRWAY MANAGEMENT. 2<sup>nd</sup> National Conference on Simulation in Healthcare 2013, SRM University, Chennai, 20<sup>th</sup> to 22<sup>nd</sup> June 2013
15. Workshop on SIMULATION IN DIFFICULT AIRWAY. 2<sup>nd</sup> National Conference on Simulation in Healthcare 2013, SRM University, Chennai, 20<sup>th</sup> to 22<sup>nd</sup> June 2013
16. Panelist in Session titled COPD and PFT IN RELATION TO ANAESTHESIA. MACME-2013, Chennai, 9<sup>th</sup> June 2013
17. Moderator of a HOW I DO IT Session on COMMON CLINICAL PROBLEMS SUCH AS RENAL INSUFFICIENCY, HYPERTENSION, DIABETES AND ANAEMIA. MACME-2013, Chennai, 9<sup>th</sup> June 2013
18. ANAESTHESIA AND HYPOTHYROIDISM. MACME-2013, Chennai, 9<sup>th</sup> June 2013
19. OXYGEN TRANSPORT. RamachandraAnaesthesia Continuing Education 2013 (RACE-2013), Chennai, 25<sup>th</sup> to 27<sup>th</sup> January 2013
20. Case Discussion on CHRONIC OBSTRUCTIVE PULMONARY DISEASE. RamachandraAnaesthesia Continuing Education 2013 (RACE-2013), Chennai, 25<sup>th</sup> to 27<sup>th</sup> January 2013

Dr Krishna HM

21. Resource person at National Workshop on 'Assessment in Higher Education' conducted at KMC, Manipal between 10<sup>th</sup> and 12<sup>th</sup> January 2013.
22. Participated as Faculty in KMC MAC-2013, CME program at Mangalore on 13<sup>th</sup> January 2013 and delivered a lecture 'Management of the lung ventilation'.
23. Participated as Resource Person in Simulation in difficult airway' workshop held on 20<sup>th</sup> June 2013 in Conference on Simulation in health care 2013 at SRM Medical College, Chennai.
24. Attended and presented a paper 'vanging PETCO<sub>2</sub> with different locations of HME in the breathing circuit' at 29<sup>th</sup> Annual State Conference KISACON 2013

between 13<sup>th</sup> and 15<sup>th</sup> September 2013 at Rajarajeshwari Medical College, Bangalore.

25. Attended 23<sup>rd</sup> Annual Conference of RSACP, RSACPCON 2013 between 25<sup>th</sup> and 27<sup>th</sup> October 2013 held at Srinagar and presented a paper 'Does gabapentin have anxiolytic property? controlled comparison with alprazolam'.

Dr John George K

26. Presented a poster titled 'Inexpensive video – laryngoscopy guided intubation using a personal computer initial experience of a novel technique' in NWAC (Networking World Anesthesia Convention) 2013 in Thailand, Bangkok on 25<sup>th</sup> April 2013 also attended the NWAC Conference between 23<sup>rd</sup> and 27<sup>th</sup> April 2013.
27. Attended AHA- ACLS Instructor Training in Medical Simulation Centre, Manipal 2013.

Dr Souvik Choudhary

28. Attended ISACON -2013 National Conference, Guwahati in December 2013 and presented a poster 'Dilemma about arterial placement of subclavian central venous catheter after radiography. Lessons learnt in a case of mediastinal shift.

Dr Laxmi Shenoy

29. Attended CME – KMAC conducted in KMC, Mangalore in January 2013.
30. Attended 6<sup>th</sup> National Obstetric Anaesthesia in Mangalore between 5<sup>th</sup> and 6<sup>th</sup> October 2013.
31. Attended 8<sup>th</sup> Regional Anaesthesia and Advanced Ultrasound Guided Nerve Block in Hyderabad between 9<sup>th</sup> and 10<sup>th</sup> November 2013.

Dr Amruth K Rao

32. Attended NWAC (Networking World Anesthesia Convention) 2013 in Thailand, Bangkok between 23<sup>rd</sup> and 27<sup>th</sup> April 2013.
33. Attended AHA- ACLS Instructor Training in Medical Simulation Centre, Manipal 2013.
34. Attended FCCS – Society of Critical Care Medicine, USA, in Medical Simulation Centre.
35. Attended Operation Smile International Mission in Kolkata in January 2013.

Dr Tim Thomas Joseph

36. Attended NWAC (Networking World Anesthesia Convention) 2013 in Thailand, Bangkok between 23<sup>rd</sup> and 27<sup>th</sup> April 2013.
37. Attended AHA- ACLS Instructor Training in Medical Simulation Centre, Manipal 2013.

38. Attended FCCS – Society of Critical Care Medicine, USA, in Medical Simulation Centre.
39. Attended Operation Smile Mission at Bhuvaneshwar between 21<sup>st</sup> and 29<sup>th</sup> September 2013.
40. Resource Faculty ‘Ultrasound Guided Nerve Block’ at Mysore Medical College & Research Institute.

Dr MadhuRao

41. Attended CME – KMAC conducted in KMC, Mangalore in January 2013.
42. Attended AHA accredited ACLS, BLS Provider Course in May 2013.

#### Conference Presentations : 2014

Dr AnithaNileshwar

#### CME

1. Invited lecture on ‘Anaesthesia for a post-CABG patient for noncardiac surgery’ at a CME – MAC 2014, organized by the Department of Anaesthesiology, KMC, Mangalore on the 12<sup>th</sup> January, 2014.
2. Invited faculty at CME in Transfusion Medicine held at Manipal on 6.5.2014. Delivered a lecture on ‘Strategies to reduce blood loss during surgery’ and also participated in a Panel Discussion on blood and blood product utilization.
3. Invited faculty at a CME held at JSS Medical College, Mysore. Delivered a lecture on Simulation in anaesthesia on 22<sup>nd</sup> June 2014.
4. Organised APGAP 2014, (CME in Anaesthesiology) and delivered a lecture on One lung Ventilation at Manipal.
5. Attended Nutrition Expert meeting held at Marriott, Bangalore on 22<sup>nd</sup> August 2014
6. Karnataka state conference of Association of Surgeons of India held at Manipal, Delivered a talk on Management of Septic Shock, 30<sup>th</sup> September 2014.
7. Attended KISACON in Dharwad on October 12<sup>th</sup>, 2014 Participated as a panelist on Septic Shock – Panel discussion
8. Delivered a lecture on Strategies on prevention of respiratory complications on October 12<sup>th</sup> in KISACON at Dharwad.
9. Attended the National Conference of Indian Association of Respiratory Care held at Symbiosis, Pune from 12<sup>th</sup> to 14<sup>th</sup> September 2014. Delivered a lecture on Ventilator-Associated Pneumonia.
10. Invited lecture on New CPR guidelines on 22<sup>nd</sup> November 2014 at the National Conference of Indian College of Anaesthetists at NarayanaHrudayalaya, Bangalore
11. Attended a workshop on “Nurturing effective workplace” held at TAPMI, Manipal in December 2014

Dr ManjunathPrabhu

12. Attended 3<sup>rd</sup> Regional Anaesthesia Conference – Asia Conference held in JIPMER, Pondicherry between 18<sup>th</sup> and 19<sup>th</sup> January 2014

Dr Krishna HM

13. Participated in CME ‘MAC 2014’ held on 12<sup>th</sup> January 2014 at KMC, Mangalore
14. Invited faculty for RamachandraAnaesthesia Continuing Education (RACE 2014) held at Chennai between 7<sup>th</sup> and 9<sup>th</sup> February 2014 and delivered a lecture – ‘Breathing Circuits’.
15. Participated in mini workshop for Postgraduate dissertation guides conducted by Manipal unit of UNESCO chair in bioethics held on 14<sup>th</sup> June 2014 at KMC, Manipal
16. Invited faculty for KISACON 2014, at SDMC Dharwad between 10<sup>th</sup> and 12<sup>th</sup> October 2014, and delivered a lecture on ‘Perioperative Stroke’ and ‘Indication for blood component therapy’ .Judged the free paper session.
17. Resource person for APGAP 2014 at KMC, Manipal.Delivered a lecture ‘Airway challenges in the neurosurgical patient’.Organised the workshop – ‘Difficult airway Simulation’.
18. Participated as Faculty in ‘Airway CME and Workshop’ on 14<sup>th</sup> November 2014 at RSACPCON 2014 at Dehradun.
19. Participated and presented a paper ‘Entropy changes with skull pin head holder application during craniotomy – A prospective observational study’ in RSACPCON 2014, between 14<sup>th</sup> and 16<sup>th</sup> November 2014 at Himalayan Institute of Medical Sciences, Jolly Grant, Dehradun.
20. Invited faculty at ISACON 2014 at Madurai between 26<sup>th</sup> and 29<sup>th</sup> December 2014, delivered a lecture ‘Pregnancy Induced Hypertension’ and presented a poster ‘Two maneuvers to facilitate oral insertion of L MA C Track’ which won ISH Narani 2<sup>nd</sup> Best poster award.

Dr Malavika

21. Poster presentation – case report on ‘ The Perioperative management of a child with Di George syndrome

Dr Rohith K

22. Attended MAC 2014 cme held at KMC Mangalore on 12<sup>th</sup> January 2014.
23. Attended Conference –Malaysian Society of Anaesthesiologist Congress held in Kaulalampur in April 2014.



Dr NitinTanajiraoPatil

24. Organised a Critical Care Education Programme – CME on “Advanced hemodynamic Monitoring’ on 25<sup>th</sup> April 2014.

Dr NanjangudPawan R

25. Anaesthetic management of corrected TOF for LSCS Annual SIISA conference August 2014 – Vishakhapatnam

Dr Bhavya PJ

26. Attended ISACON 2014 – held at Madurai

Dr MadhuRao

27. Attended CME, MAC-2014 at Mangalore

Dr Amrut K Rao

28. Presented a poster – “Peculiar breathing in Rett’s syndrome anaesthesiologist’s nightmare’ poster presented at 30<sup>th</sup> Annual Scientific sessions of the college of Anaesthesiologists of Srilanka, 27<sup>th</sup> January to 3<sup>rd</sup> February 2014.
29. Anaesthetic management of patientwith VWD type III KISACON Dharward in October 2014. Participated in ultrasound guided regional nerve block workshop in the above conference
30. Attended Biannual scientific meeting at Malaysian Association for the study of pain from 15<sup>th</sup> to 16<sup>th</sup> April 2014.

Details of project work by the Post Graduate students (2013)

Sl. No.	Name of the Post Graduate Student	Title of Dissertation
1	Dr.Sujatha M.P.	Intravenous paracetamol as an adjunctive analgesic in post-operative pain management after total abdominal hysterectomy. – a prospective, randomised, double blind study Name of the Guide : Dr U KailasnathShenoy
2	Dr. A.V. Varsha	Comparison of efficacy and safety of two different bolus doses of oxytocin during elective caesarean delivery: a prospective randomised controlled study Name of the Guide : Dr ShyamsunderKamath
3	Dr.Priya L	Depth of insertion of endotracheal tube in children – fibreopticassessment - a prospective study. Name of the Guide : Dr ManjunathPrabhu



4	Dr.Archana Jagdish Pai	Apnoeic oxygenation during simulated prolonged difficult laryngoscopy – comparison of nasal prongs vs. Nasopharyngeal catheter – a prospective randomised study. Name of the Guide : Dr U KailasnathShenoy
5	Dr.Swaroop Ghatanatti	Effect of intravenous lidocaine and dexmedetomidine on response to tracheal suctioning in intensive care unit patients – a prospective randomised double blinded cross over study. Name of the Guide : Dr Umesh G
6	Dr.Patil Vishwanath Chandrashekhar	Comparison between the use of Imaproseal and i-gel as a conduit for fibreoptic bronchoscope guided aintree intubation catheter insertion. Name of the Guide : Dr ShyamsunderKamath
7	Dr.Eeshwar Rao Madishetti	Role of gum elastic bougie with airtraq <sup>tm</sup> optical laryngoscope for endo tracheal intubation – aid or impediment a comparative study Name of the Guide : Dr K GurudasKini
8	Dr.MadhuRao	Comparison of the c-mac <sup>tm</sup> “d” blade with airtraq® for endotracheal intubation in patients with simulated limitation of cervical movements. Name of the Guide : Dr AnithaShenoy
9	Dr.Cuckoo Sarah Kuruvilla	Comparison of the effects of phenylephrine or ephedrine along with crystalloid co-load on maternal hypotension and neonatal outcome following spinal anaesthesia for elective caesarean delivery. Name of the Guide : Dr RamkumarVenkateswaran

Details of project work by the Post Graduate students (2014)

Sl. No.	Name of the Post Graduate Student	Title of Dissertation
1	Dr.Nairita Das	Spinal anaesthesia using bupivacaine or ropivacaine with dexmedetomidine for arthroscopic knee ligament reconstruction Name of the Guide : Dr RamkumarVenkateswaran
2	Dr.Sandeep V.	Tracheal migration during laparoscopic cholecystectomy
3	Dr.Sagar M S	Respiratory variation in aortic flow peak velocity and inferior vena cava diameter as indices of fluid

		responsiveness in anaesthetised and ventilated children. Name of the Guide : Dr K GurudasKini
4	Dr.Harshan A.	A comparative study of paediatric endotracheal tubes available in the indian market – a bend study. Name of the Guide : Dr AnithaShenoy
5	Dr.Amjad A	Effect of cricoid pressure on laryngoscopic view and ease of intubation with airtraq® videolaryngoscope. Name of the Guide : Dr Nanda Shetty
6	Dr.Priyanka G Kini	Comparison of intubating conditions using “spray as you go” technique versus transtracheal instillation of lignocaine for airway topical anaesthesia during awake nasal fiberoptic intubation. Name of the Guide : Dr Elsa Varghese / Dr Umesh
7	Dr.Anu Paul	Comparison between intravenous dexmedetomidine and local lignocaine infiltration to attenuate the haemodynamic response to skull pin head holder application during craniotomy. Name of the Guide : Dr Elsa Varghese / Dr H M Krishna
8	Dr.Goyal Kush Ashokkumar	Evaluation of effect of entropy monitoring on isoflurane consumption and recovery from anaesthesia. Name of the Guide : Dr AnithaShenoy
9	Dr.Bhavya P J	Effect of intravenous midazolam and dexmedetomidine on response to flexible bronchoscopy – a prospective, randomized, double blinded study. Name of the Guide : Dr Umesh G

Details of project work by the Post Graduate students (2015)

Sl. No.	Name of the Post Graduate Student	Title of Dissertation
1	Dr Divyashri C N	Effect of provider communication on perception of pain during intravenous cannulation: A randomised controlled study. Name of the Guide : Dr Shwethapriya
2	Dr Karri Pavani	Tracheal intubation through LMA CTRACH tmwith polyvinyl chloride tube: Comparison between two orientations of the tracheal tube during intubation. Name of the Guide : Dr H M Krishna

Dr K Roopa	Traditional didactic teaching versus video-assisted feedback for teaching endotracheal intubation. Name of the Guide : Dr RamkumarVenkateswaran
Dr T Sumanth	A comparative study between IV dexamethasone, IV ramosetron and IV palonosetron for prevention of postoperative nausea and vomiting in patients undergoing total abdominal hysterectomies. Name of the Guide : Dr U KailasnathShenoy
DrShiyad.M	Comparison of two methods of gum elastic bougie aided endotracheal intubation using Airtraq video laryngoscope, a randomised controlled study. Name of the Guide : Dr ShyamsunderKamath
Gopal V Gotur	Comparison of two different techniques of mask holding during single person bag mask ventilation in anaesthetized patients. Name of the Guide : Dr Umesh G

Details of On goingproject work by the Post Graduate students (2016)

Sl. No.	Name of the Post Graduate Student	Title of the Dissertation
1	DrAnnuTheagrajan	Evaluation of a new formula age(Yrs) / 2+10 for determination of depth of endotracheal tube fixation in Indian children. Name of the Guide : Dr ManjunathPrabhu
2	DrChamalaVamsidhar	Comparison of LMA CTrach TM and Airtraq® videolaryngoscope as conduits for endotracheal intubation in patients with cervical collar in situ. Name of the Guide : Dr Prasad KN
3	Dr Deepak B K	The effect of intraoperative dexmedetomidine infusion on emergence agitation and recovery profile in adults undergoing nasal surgeries. Name of the Guide : Dr Malavika
4	DrKavya R Upadhya	Effect of intravenous dexmedetomidine administered as bolus or as abolus-plus-infusion on subarachnoid anaesthesia with hyperbaric bupivacaine. Name of the Guide : Dr RamkumarVenkateswaran

5	Dr K P Satyanarayana	Comparison of glottis view and ease of orotracheal intubation with Macintosh and McCoy laryngoscopes in anaesthetised and paralysed adult patients-a prospective randomized cross –over study. Name of the Guide : Dr Arun Kumar
6	DrMadhumitaUdayasankar	Comparison of perioperative patient comfort with ‘enhanced recovery after surgery(ERAS) approach’ versus ‘traditional approach’ for elective laparoscopic cholecystectomy. Name of the Guide : Dr AnithaNileshwar

#### AWARDS/RECOGNITIONS:

Dr Anitha N Shenoy is the Chief editor of Indian Journal of Respiratory Care and the Current President of the Indian Association of Respiratory Care

Dr Krishna H M, Professor of Anaesthesiology, KMC, Manipal won 2<sup>nd</sup> prize in ISH Narani Poster competition in ISACON 2014 Madurai for a Poster on ‘Two techniques to facilitate oral insertion of LMA CTrach’. This was co-authored by Dr Karri Pavani and Dr Nandhini Joseph, Postgraduates in Anaesthesiology.

Dr Madhumitha, Junior Resident(2<sup>nd</sup> year PG),Department of Anaesthesiology won 2<sup>nd</sup> prize in poster Competition for the poster ‘Anaesthetic management of a case of insulinoma masquerading as a seizure disorder’ under guidance of Dr ShriramVaidya in KISACON 2014 Dharwad.

Dr Sushma T K, Junior Resident (2<sup>nd</sup> Year PG), Department of Anaesthesiology won 1<sup>st</sup>prize in e-poster Competition for the poster ‘Misplaced tracheostomy tube; airway exchange catheter and fiberoptic bronchoscope save the patient’ under guidance of Dr ManjunathPrabhu and Dr ShriramVaidya in ISACON 2014 Madurai.

#### 12. Placement record of the past students and contribution of the department to aid student placements.

The department of Anaesthesiology, Kasturba Medical College, Manipal has been well known for excellence in postgraduate training and the students are immediately absorbed in a job they apply for, without further questions. None of our students have been unemployed ever. Nearly sixty to seventy are in the UK, some in Australia and some in the USA. A few are in the Middle East. Some have gone on to become heads of departments elsewhere or even established new disciplines such trauma management, emergency management and palliative care.

### 13. Plan of action of the department for the next five years.

- Design and development of the curriculum taking into consideration current trends and needs of the society
- Design new means of postgraduate teaching and evaluation
- Conduct Continuing Medical Education programmes
- Maintain research activities
- Encouraging faculty to get trained in newer clinical practices
- To motivate faculty and postgraduates to attend and present papers at least once a year in national/international conferences.

## PSYCHIATRY

### 1. Faculty profile - adequacy and competency of faculty.

There are 15 Teaching faculty in the department. All the faculty meet the eligibility criteria for PG and UG teachers as per the MCI guidelines. All of them are competent.

#### Faculty list

Sl.No	Name of the faculty	Qualification	Designation	Teaching Experience in years
1	Dr PSVNSharma	MBBS, MD,DPM	Professor & Head	30
2	DrShripathyM.Bhat	MBBS, MD,DPM	Professor	28
3	Dr.Samir KPraharaj	MBBS, MD,DPM	Assoc. Prof.	7
4	Dr.Sreejayan K	MBBS, MD	Assoc. Prof.	8
5	Dr.Savitha S	MBBS, MD	Asst. Prof.	6
6	Dr.Rishikesh VBehere	MBBS, MD	Assoc. Prof.	7
7	Dr.RK.Bhandary	MBBS, MD	Asst. Prof.	5
8	Dr.Ravindra M	MBBS, MD	Asst. Prof.	4
9	Dr.Avinash G Kamath	MBBS, MD	Asst. Prof.	4
10	Dr.MahimaAcharya	MBBS, MD	Senior Resident	4
11	Dr.Gunasagari Rao	MSW, MPhil, PhD	Assoc. Prof. in PSW	28
12	Dr.Thippeswamy V	MSW, MPhil, PhD	Asst. Prof. in PSW	8
13	Dr.Sanjeev Kumar	MSW, MPhil, PhD	Asst. Prof. in PSW	3
14	Mr.Praveen A	MSW, MPhil.	Lectuer in PSW	4

Category	Sanctioned	Filled
Teaching staff	9	9
Senior Residents	2	1
Junior Residents	6	16

- There are additional 05 Junior Residents working in the department

### 2. Student profile – entry level, competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 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 regulations for the MD (Psychiatry) and DPM courses conducted by the department are governed by the Medical council of India. The department also conducts M.Phil in Psychiatric social work course. The course structure and content comply with the regulations strictly. Various changes have been made in the curriculum over the last two years to improve the quality of training. Since the last two years in addition to the ongoing clinical rotations, students are being additionally posted to specialty clinics (psychodermatology clinic and psychooncology clinic), community psychiatry clinics, psychosomatic clinic, government district hospital and rehabilitation wards for improving their clinical skills. The weekly classes schedule for students have been reviewed and updated. The department has introduced training in OSCEs to improve the clinical skills. Audiovisual inputs are being used. There has been a change in the pattern of marking the theory question papers, the mark weightage for long essays have been reduced and that for short questions increased. The students have been encouraged to do at least one research study during their course, under the guidance of a faculty. All the teachers contribute to the changes in course. The discussions are done in the departmental meeting and a consensus reached. This is then presented to the board of studies by the head of the department.

### 4. Trends in the success and dropout rates of students during the past three years.

Course	Pass percentage			Drop out rate		
	2012-13	2013-14	2014-15	2012-13	2013-14	2014-15
MD	100%	100%	100%	0	0	0
DPM	100%	100%	100%	0	0	0
Psychiatric social work (PSW)	75%	100%	100%	0	0	0

### 5. Learning resources of the departments - library, computers, laboratories and other resources.

The department has an airconditioned library with 87 Books in psychiatry, social work and allied subjects that can be easily accessed by the students and faculty. This is in addition to more than 500 books in the psychiatry section of health sciences library.

All the faculty has been provided laptops by the university and the students are encouraged to have their own laptops.



Each of the faculty and student rooms are provided with internet ports which can be used free of cost. The resource materials, seminar handouts etc are shared by the faculty and students through their emails

In addition the department has 10 desktop computers, and 3 functional printers.

The department also has a research cell equipped with 2 desktops, 2 laptops and a printer. This cell also has facility for cold storage, environmental monitoring and apparatus for clinical monitoring. This facility is used by the faculty to conduct research, get trained and for storage of research data and raw materials.

The department also has 2 class rooms equipped with audiovisual aids for clinical and theoretical training.

#### **6. Modern teaching methods practiced and use of ICT in teaching – learning.**

The teaching process in the department uses various methodologies to ensure that there is satisfactory gain in knowledge, skills and attitude. There is equal emphasis on both the clinical and theoretical aspects. Theoretical knowledge based teaching occurs through lectures, group discussions and seminars. Various audiovisual methods are used.

Clinical teaching to build up the skills and bring changes in the attitudes occurs through bedside teaching and case conferences. There is emphasis on demonstration on clinical skills under the supervision of teacher.

#### **7. Participation of teachers in academic and personal counseling of students.**

All teachers actively engage themselves in teaching the postgraduates and the undergraduate students. Personal attention is given particularly to clinical teaching. The student is encouraged to demonstrate the skill while being monitored by the teacher and relevant feedback given for improvement. During seminars and journal club the teacher who chairs the session guides the student in searching for the literature and preparing for the session. The student gets to present under various teachers during the course, getting varied experience from many sources.

All the faculties attend the academic programs and contribute to the discussion on the topic. After the presentation everyone gives a feedback to the students regarding his/ her presentation. This is to improve the student's presentation skills and equip him/her with necessary skills so that they can present topics effectively in conferences and other forums.

The faculties are also involved in counseling students from the department as well as UG students and students from other departments of the university.

The PG students are encouraged to learn research methodology. Each student is expected to do a study and present in conferences. MD students are expected to have a publication as well. Each student is allotted to a faculty to mentor. In addition, students also do

dissertation under an allotted guide. Faculties also guide UG students for ICMR projects and various other minor projects.

#### **8. Details of faculty development programmes and teachers who have been benefited during the past two years.**

All faculties attend development programs to improve on their teaching skills and to be abreast with the latest teaching methodologies. All faculties have attended the Pedagogic Workshop conducted by the University. This helps them in improving their skills in teaching, making curriculum and conducting exams.

They regularly attend conferences, Workshops and CMEs to update their knowledge in psychiatry. Faculty also have attended workshops on Research Methodology and Statistics to improve on their research skills. The faculty have also organized and conducted CME's conferences and workshops.

#### **9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

All faculties are actively involved in teaching UG & PG students. All faculties are also involved in modifying the teaching programs and including modern teaching methods into their classes. All of them actively do research and have published in National and International Journals. The department has also been successful in receiving a DST sponsored research grant in the past two years.

The department also conducts drug trial research regularly and has received many funded projects.

Faculties assist students and faculty of other departments and institutions in carrying out research and dissertations related to mental health.

The teachers attend to the patients (both inpatient and outpatient) in the department of Psychiatry. They also see patients from other departments in specialty clinics in addition the faculty also provide their consultancy services at District Hospital and Community Clinics. They also see patients who are students of the university in the evenings outside class hours.

#### **10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.**

The department actively collaborates with other departments within the institution and outside the institution in research work. Many PG and Ph.D thesis have been done collaboration with department of psychology, nursing, life sciences etc. Postgraduate MD and DPM students visit NIMHANS, Bangalore regarding mental hospital psychiatry, community psychiatry, forensic psychiatry. The department is also actively involved in

delivering clinical training/theoretical inputs to undergraduate and postgraduate students from Departments of Internal Medicine (MD), Pharmacy(Pharm D), Clinical Psychology (MPhil), Nursing (BSc Nursing, MSc Nursing and Diploma Psychiatric Nursing) and Occupational therapy (Bachelor of Occupational therapy). The Department is currently working with the Department of Psychiatry, University hospital, Dusseldorf, Germany in modifying a module for affect recognition training in schizophrenia in Indian setting as a part of a PhD research project. In collaboration with WHO mental health division faculties of the department are working on revision of the 11<sup>th</sup> edition of the ICD mental and behavioral disorders section.

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Priority areas: Epidemiological research, Phenomenological research, course and outcome research, quality of life research, treatment research.

Overview of our research activities and publication activities is given in table below

#### Ongoing Research projects

Category	Number
Funded research projects	1
Non-funded research projects	4
PhD research projects	8
PG research projects	8
UG research projects	2

#### Last 3 years (2012-2014)

		2012	2013	2014
Completed funded research projects		2	1	1
Completed non-funded research projects		3	2	2
Completed PhD research projects		4	0	0
Completed PG research projects		16	10	12
Completed UG research projects		3	1	1
Publications	International	20	16	19
	National	6	12	5
Books		0	0	0
Chapters in books		1	1	1
Conference presentations	International	08	00	1
	National	33	30	5

**Funded Projects: Last 3 years (2012 – 2014)**

Sl.No	Title	Principal Investigator	Funding agency	Total amount received
1	Phase III Placebo and active comparator controlled clinical trial to study the safety and efficacy of RGH-188 in the acute exacerbation of schizophrenia.	Dr.PSVN Sharma	Quintiles India Pvt Ltd	6 Lakhs
2	Reference:RGH -MD-32: A Double-blind, Placebo-Controlled Evaluation of the Safety and Efficacy of Cariprazine in Patients with Acute Mania Associated with Bipolar I Disorder.	Dr.PSVN Sharma	Quintiles India Pvt Ltd	1,05,000.00
3	Protocol Number: D144AC00003: A Multicenter, Double-blind, Randomized, Placebo-controlled, Phase IV, Study of the Safety and Efficacy of Lithium versus Placebo as an add on to SEROQUEL XR™ (Quetiapine Fumarate) in Adult Patients with Acute Mania.	Dr.PSVN Sharma	Quintiles India Pvt Ltd	4 Lakhs
4	Protocol Number D1050231: A Phase 3, Randomized, Placebo- and Active Comparator-Controlled Clinical Trial to Study the Safety and Efficacy of Two doses of Lurasidone HCl in Acutely Psychotic Patients with Schizophrenia.	Dr.PSVN Sharma	Quintiles India Pvt. Ltd	10 Lakhs

5	A Multicenter, Randomized, Double-Blind, Parallel Group, Placebo- Controlled, Phase III, Efficacy and Safety Study of 3 Fixed Dose Groups of TC-5214 (S-mecamylamine) as an Adjunct to an Antidepressant in Patients with Major Depressive Disorder Who Exhibit an Inadequate Response to Antidepressant Therapy.	Dr.PSVN Sharma	AstraZeneca AB	3 Lakhs
6	A Multicenter, Randomized, Double-blind Study to Evaluate the Efficacy, Safety and Tolerability of an Oral Aripiprazole/ Escitalopram Combination Therapy in Patients with Major Depressive Disorder Location: Department of psychiatry, Kasturba Medical	Dr.PSVN Sharma	Covance	1,45,246.50
7	Diagnostic Utility, Endophenotypic validity and clinical correlates of facial emotion recognition deficits in schizophrenia versus bipolar disorder Location: Department of psychiatry Kasturba Medical College, Manipal	Dr Rishikesh V Behere	Department of Science and Technology (DST) Govt. of India	Rs 11 lakhs
8	A Randomized, Double-Blind, Placebo- Controlled, Parallel- Group Study of Cariprazine (RGH-188) in the Prevention of Relapse in Patients with Schizophrenia.	Dr.PSVN. Sharma	Forest Laboratories	6 Lakhs

**Non-Funded Projects: Last 3 years (2012 – 2014)**

Sl.No	Title	Principal Investigator	Purpose
1.	Udyavara and Kaup Community psychiatry project	Dr PSVN Sharma	Non funded research project
2.	Effect of ethnicity and cerebral laterality on facial emotion recognition abilities	Dr Rishikesh V Behere	Non funded research project
3.	Perceived parenting and early maladaptive schemas in male adult children of alcoholics	Dr Sreejayan	Non funded research project
4.	Interrelationship between alcohol and tobacco dependence among alcoholics who smoke	Dr Sreejayan	Non funded research project
5.	Role of life events in alcoholic relapse	Dr Samir Praharaj	Non funded research project
6.	Effectiveness of social group work for persons with alcohol dependence syndrome and to their care givers	MrsSapna Ganesh	PhD research project
7.	Modification and validation of an existing module for affect recognition training in schizophrenia	MrUmesh Tonse	PhD research project
8.	Yoga therapy in anxiety disorders	Dr Annapoorna	PhD research project
9.	Cognitive Behavior therapy intervention in patients undergoing dialysis for renal failure	MrsBlessy Valsaraj	PhD research project
10.	Development of pharmacogenomics SNP database for critical candidate genes involved in drug response for schizophrenia	MrsPranita Pai	PhD research project
11.	Relationship of visual perception visual motor	Mrs KR Banumathe	PhD research project

	integration and handwriting with academic performance in elementary school children: A cohort study		
12.	Altered signal transduction mechanisms and phenotypic correlations in bipolar disorder	Mr Anantapa dmanabha	PhD research project
13.	A study of select psychological intervention in the management of cancer pain	Mr Dinesh	PhD research project
14.	Effect of psychoeducative intervention on adherence to treatment among persons with bipolar affective disorder	Ms. Linu Sara George	PhD research project
15.	Effectiveness of modified mindfulness based cognitive therapy in distressed couples with infertility undergoing IUI with unsuccessful outcomes	Ms. Ansha Patel	PhD research project
16.	Clinical features and course of depression in outpatients – one year follow up study	Dr. Senthil	MD Thesis
17.	A cross-sectional comparative study of insight in schizophrenia and bipolar mood disorder	Dr. Arul S	MD Thesis
18.	Clinical features and course of depression: a 6 months follow up study	Dr Ravindra Munoli	MD Thesis
19.	A cross sectional descriptive study of symptomatology in acute and transient psychotic disorders.	Dr Mahima Acharya	MD Thesis
20.	Maternity blues – prevalence, course, outcome and correlates	Dr. Shreyoshi Ghosh	MD Thesis
21.	Facial emotion recognition deficits and alexithymia in	Dr. Vinuprasad	MD Thesis



	adult Indian population with somatoform disorders and its association with quality of life	VG	
22.	Sexual dysfunction in alcohol dependent males	Dr. Nishanth Vemanna	MD Thesis
23.	Gender and bipolar disorder: a cross sectional evaluation of clinical characteristics, comorbidities and quality of life	Dr. Manjunadh	MD Thesis
24.	Cognitive deficits and medication adherence in cases of schizophrenia – a cross-sectional study	Dr. Jagadeesh S	MD Thesis
25.	Study of the factors predicting good outcome in schizophrenia – a longitudinal study	Dr. Roopa G.	MD Thesis
26.	Validation of a brief instrument for cognitive function assessment in a hospital sample of dementia	Dr. Akshith Shety	MD Thesis
27.	Efficacy of trans -cranial direct current stimulation (tDCS) in somatic symptom disorder, predominantly pain: Randomized double blind sham-control study	Dr. Prashanth P	MD Thesis
28.	Longitudinal course of negative symptoms, cognitive deficits and social cognition in schizophrenia	Dr. Aparajita Arora	MD Thesis
29.	Self-stigma, self-esteem and recovering orientation in residents of a psychiatric rehabilitation center	Mr Praveen	MPhil Thesis
30.	Psychosocial issues in midlife- a comparative study between	Ms Devi	MPhil Thesis

	women in a religious organization and in the community		
31.	A study on effectiveness of camp approach in the treatment of persons with alcohol dependence syndrome	Mr.Umesh Tonse	MPhil Thesis
32.	Effectiveness of life skill education on anxiety depression stress and coping among athletes in residential institutions	Ms. Anitha	MPhil Thesis
33.	Hope empowerment and self efficacy in the residents of a psychiatric rehabilitation center	Mr.Sanju	MPhil Thesis
34.	A comparative study on attachment style marital quality and work to family conflict among dual earning and single earning couples in teaching population	Sr,Jiji Joseph	MPhil Thesis
35.	Subjective burden psychological distress and perceived social support among care givers of persons with schizophrenia	Ms.Sahana	MPhil Thesis
36.	Marital adjustment and psychological distress among persons with psoriasis	Ms.Sonu Rose	MPhil Thesis
37.	Effectiveness of social group work intervention on awareness about harmful consequences of tobacco used among high school students.	Mr.Pramod Kumar	MPhil Thesis
38.	Self esteem, general health and sexual attitude of undergraduate social work	Mr.Anand Jose	MPhil Thesis

	students – A Comparative studies		
39.	Weight related quality of life, concerns about body safe and coping in individual who are undergoing weight loss program	Ms.Pratheeka	MPhil Thesis
40.	Effect of TCA versus duloxetine on symptom cluster and symptom severity in somatoform disorder	Dr Manas ER	PG research project
41.	Psychopathology of patients with alcohol induced psychosis- a 10 yr. retrospective file review	Dr.Ankit	PG research project
42.	Comparison of socio-demographic and clinical characteristics of unipolar versus bipolar mania: a retrospective file review	Dr Senthil	PG research project
43.	Development and validation of a brief instrument for cognitive assessment	Dr Bhargavi	PG research project
44.	Sociodemographic and clinical profile of males with dissociative disorder admitted in a tertiary care center in India: A retrospective chart review	Dr Sathyakanth	PG research project
45.	Incidence and factors associated with clozapine induced constipation: a prospective observation study	Dr Amit Chougule	PG research project
46.	Impact of Co-morbid medical illness on seizure parameters in M ECT – A Retrospective study	Dr.Khyati	PG research project

47.	Indication and prescription patterns of MECT – A Retrospective file review of inpatients in tertiary care hospital	Dr.Subhalaxmi	PG research project
48.	Psychometric properties of fertility problem inventory – A clinic based study	Ms.Ansha Patel	PG research project
49.	Psychiatric morbidity, marital distress, coping and need for psychological intervention in couples with infertility – A clinic based study.	Ms.Ansha Patel	PG research project
50.	Prevalence of internet addiction, psychological morbidity among undergraduate medical students	Dr.Nymisha D	PG research project
51.	Cerebral laterality and its effect on hemifacial emotion recognition	Ms. Anam Saeed	UG research project (ICMR-STs project)
52.	A study of prevalence, duration and course of delirium in patients admitted in the cardiology ICU of a tertiary care hospital	Meenakshi Bamalwa	UG research project (ICMR-STs project)
53.	Chronotypes and its Association with Psychological Morbidity and Childhood Parasomnias among College Students	Ng Snowei	UG research project (ICMR-STs project)
54.	Cross sectional study of neurological soft signs in bipolar patients as an indicator of functional status and its relation to family history	Mr.Aditya	UG research project (ICMR-STs project)
55.	Cross sectional study of neurological soft signs in	Mr.Aditya	UG research project

	schizophrenia as an indicator of functional status and its relation to family history		
56.	Sensory processing sensitivity and its relationship to psychological distress among undergraduate medical students	Ms.Abhilasha Sharma	UG research project
57.	Association of sleep deprivation duration with IGT and type II diabetes mellitus	Mr.Tamagna Ghosh	UG research project
58.	Development and validation of a brief instrument for cognitive assessment – Indian Instrument for Cognitive Examination (IICE).	Dr.Rishikesh VB	Non funded research project
59.	Facial emotion recognition and alexithymia in adult Indian population with somatoform disorders.	Dr.Rishikesh VB	Non funded research project
60.	Study on factors predicting good outcome in schizophrenia: A longitudinal study.	Dr.Rishikesh VB	Non funded research project
61.	Modification and validation of an existing module for affect recognition training in schizophrenia (ARTS).	Dr.Rishikesh VB	Non funded research project

**The details of our Publications are described below:**

**Year 2012**

**International – Indexed / Non-indexed**

1. Kakunje A, Kanaradi H, Chand P, Sharma PSVN, Ganesh P, Puthran S. Personality profile of persons with alcohol dependence with and without cirrhosis: A hospital based comparative study. International Journal of Health and Rehabilitation Sciences 2012; 1(2): 94-98.

2. Hegde S, Bhat SM, Sharma PSVN, Kamath A, Shetty AK. Postpartum Depression: Prevalence and associated factors among women in India. *Journal of Women's Health Issues and Care* 2012; 1:100-101.
3. Agarwal SM, Rao NP, Venkatasubramanian G, Behere RV, Varambally S, Gangadhar BN. Successful treatment of atypical depression with amisulpride: a case report. *Asian Journal of Psychiatry* 2012;5(4):362.
4. Saraf G, Behere RV, Venkatasubramanian G, Rao NP, Varambally S, Gangadhar BN. Hyperprolactinemia With Aripiprazole: Understanding the Paradox. *American Journal of Therapeutics* 2012; Feb 18.
5. Behere RV, John M, Sureshkumar R, Varambally S, Rao NP, Venkatasubramanian G, Gangadhar B. Mood disorder in association with moyamoya disease. *Psychiatry and Clinical Neurosciences* 2012;66(2):163-4.
6. Rao NP, Kasal V, Mutalik NR, Behere RV, Venkatasubramanian G, Varambally S, Gangadhar BN. Has Kahlbaum syndrome disappeared or is it underdiagnosed? Reexamining the nosology of catatonia. *J ECT* 2012;28(1):62-3.
7. Bagati D, Mittal S, Praharaj SK, Sarcar M, Kakra M, Pankaj K. Repetitive transcranial magnetic stimulation safely administered following seizure. *Journal of ECT* 2012; 28(1): 60-61.
8. Praharaj SK, Kongasseri S. Naphthalene addiction. *Substance Abuse* 2012; 32(2): 189-190.
9. Sarkar S, Sinha VK, Praharaj SK. Depressive disorders in school children of suburban India: An epidemiological study. *Social Psychiatry and Psychiatric Epidemiology* 2012; 47(5): 783-788.
10. Nongpiur A, Praharaj SK, Sarkar S, Das B. Delayed onset of clozapine-induced leucopenia. *American Journal of Therapeutics* 2012; 19(3): e118-e119.
11. Munoli RN, Praharaj SK, Bhatt SM. Localized exfoliating rash with paresthesia possibly due to clonazepam. *Child and Adolescent Psychopharmacology* 2012; 22(4): 1-2.
12. Praharaj SK, Sharma PSVN. Amantadine for olanzapine-induced weight gain: a systematic review and meta-analysis of randomized placebo-controlled trials. *Therapeutic Advances in Psychopharmacology* 2012; 2(4): 150-155.
13. Praharaj SK, Acharya M, Arul S, Kongasseri S, Behere RV, Sharma PSVN. Mania associated with Usher syndrome type II. *Turkish Journal of Psychiatry* 2012; 23(3): 219-221.
14. Selvaraj AG, Praharaj SK. Delayed onset and prolonged interictal delirium following electroconvulsive therapy. *Psychogeriatrics* 2012; 12(3): 211-213.
15. Praharaj SK, Sarkar S, Sinha VK. External ear abnormalities in existing scales for minor physical anomalies: are they enough? *Psychiatry Research* 2012; 198: 324-326.

16. Nath K, Bhattacharya A, PraharajSK. Eslicarbazepine acetate in the management of refractory bipolar disorder. *Clinical Neuropharmacology* 2012; 35(6): 295.
17. Singh LK, Praharaj SK, Sahu M. Nonfatal suicidal overdose of olanzapine in an adolescent. *Current Drug Safety* 2012; 7(4): 328-329.
18. Lavania S, Ram D, Praharaj SK, Khan AH, Patojoshi A. Deliberate self-harm in non-depressed substance dependent patients. *Journal of Addiction Medicine* 2012; 6(4): 247-252.
19. Tonse, Umesh, Sinu, E. Quality of Life of Alcohol Dependents after Community Based Camp Intervention in the Treatment of Persons with Alcohol Dependence Syndrome. *International Journal of Applied Research & Studies* 2012; 1(3):1-15.
20. Munoli RN, Praharaj SK, Bhat SM. Localized exfoliating rash with paresthesia possibly due to clonazepam. *Journal of Child and Adult Psychopharmacology*, 2012 Aug;22(4):320-1.

#### **National– Indexed / Non-indexed**

1. Jana AK, Praharaj SK, Sinha VK. Comorbid bipolar affective disorder and obsessivecompulsive disorder in childhood: a case study and brief review. *Indian Journal of Psychological Medicine* 2012; 34(3): 279-282.
2. Sarkar S, Mishra BR, Praharaj SK, HaqueNizamie S. Add-on effect of Brahmi in the management of schizophrenia: a case study. *Journal of Ayurveda and Integrative Medicine* 2012; 3(4): 223-225.
3. GuruprasadV, BanumatheKR, SinuE. Leisure and Its Impact on Well Being in School Children. *International Journal of Scientific Research* 2012; 1(5): 114.
4. SinuE. High Academic Achievement: Role of Parents, Teachers and School. *Journal of School Social Work* 2012; 8(3): 27-32.
5. SinuE. Neutralizing the Effects of Institutionalization. *Journal of School Social Work* 2012; 8(2): 27-32.
6. Hegde S, Bhat SM, Sharma PSVN, Kamath A, Shetty AK. Postpartum Depression: Prevalence and associated factors among women in India. *Journal of women's health, issues and care*. 2012 1:1 <http://dx.doi.org/10.4172/jwhic.1000101>

#### **Year 2013**

##### **International – Indexed / Non-indexed**

1. Sreejayan K, Praharaj SK. Myoclonus associated with disulfiram. *J Neuropsychiatry Clin Neurosci*. 2013 Spring;25(2):E37-9.



2. Munoli RN, Praharaj SK, Bhandary RP, Sevlaraj AG. Desvenlafaxine Induced Worsening of Hypertension – A Case Report. *Journal of Neuropsychiatry and Clinical Neurosciences*, 2013 Spring; 25(2):E29-30.
3. Munoli RN, Praharaj SK, Bhat SM. Clozapine Induced Recurrent Pulmonary Thromboembolism – A Case Report. *Journal of Neuropsychiatry and Clinical Neurosciences*, 2013 Summer; 25(3):E50-51.
4. Praharaj SK, Behere RV, Deora S, Sharma PS. Psychiatric specialization as an option for medical students in the Indian context. *Int Rev Psychiatry*. 2013;25(4):419-24.
5. Nagpal K, Rao NP, Behere RV, Venkatasubramanian G, Varambally S, Gangadhar BN. Details always tell a big story: importance of physical symptoms in evaluation of secondary causes of depression. *Psychiatry Clin Neurosci*. 2013;67(1):63.
6. Lavania S, Praharaj SK, Bains HS, Kumar S, Rathore DM, Mohanty S, Nayak M. Does tardive dyskinesia really exist? *J Neuropsychiatry Clin Neurosci* 2013; 25: 58-62.
7. Praharaj SK, Sarkhel S, Prasad S, Sinha VK. Can electroconvulsive therapy induce catatonia? *J Neuropsychiatry Clin Neurosci* 2013; 25: E08-9.
8. Nath K, Bhattacharya A, Hazarika S, Roy D, Praharaj SK. A case of early onset obsessive compulsive disorder with musical obsessions and comorbid tic disorder. *J Neuropsychiatry Clin Neurosci* 2013; 25: E14-5.
9. Sarkhel S, Praharaj SK, Akhtar S. Amisulpride-induced macrocytic anemia. *J Neuropsychiatry Clin Neurosci* 2013; 25: E10-1.
10. Ameen S, Praharaj SK. Functional auditory hallucinations in a case of serotonin syndrome. *J Neuropsychiatry Clin Neurosci* 2013; 25: E60-1.
11. Mangalam MK, Sinha VK, Praharaj SK, Bhattacharjee D, Das A. Personality correlates of accident-proneness in auto-rickshaw drivers in India. *Int J Occup Saf Ergon* 2013; 19: 159-65.
12. Singh LK, Praharaj SK. Immediate response to lorazepam in a patient with 17 years of chronic catatonia. *J Neuropsychiatry Clin Neurosci* 2013; 25: E47-8.
13. Sidana A, Sarkar S, Balasundaram S, Praharaj SK. An increased sensitivity to atypical antipsychotics in a patient of Dandy-Walker variant with schizophrenia. *J Neuropsychiatry Clin Neurosci* 2013; 25: E31-2.
14. Bhattacharjee D, Singh NK, Praharaj SK, Sarkhel S. Perceived family environment in spouses of alcohol dependent patients. *J Subs Use* 2013; 18: 476-83.
15. Praharaj SK, Sarkhel S. Rimonabant-induced persistent vomiting. *German J Psychiatry* 2013; 16: 49-50.
16. Desvenlafaxine-induced Worsening of Hypertension. Munoli R, Praharaj SK, Bhandary RP, Selvaraj A. *the Journal of Neuropsychiatry and Clinical Neurosciences* 2013; 25: E29-E30.

**National– Indexed / Non-indexed**

1. Nirmal B, Shenoj SD, Rai S, Sreejayan K, Savitha S. Look beyond skin': psychogenic excoriation - a series of five cases. *Indian J Dermatol.* 2013 May;58(3):246.
2. Ghosh S, Behere RV, Sharma P, Sreejayan K. Psychiatric evaluation in dermatology: an overview. *Indian J Dermatol.* 2013 Jan;58(1):39-43
3. Ghosh S., Behere R. V., Sharma P.S.V.N., Soman S., Relevant issues in pharmacotherapy of psycho-cutaneous disorders. *Indian Journal of Dermatology* 2013; 58 (1) 61-64
4. Balakrishnan N., Shenoj S.D., Rai S., Kongasseri S., Soman S., 'Look beyond skin': Psychogenic excoriation-a series of 5 cases. *Indian Journal of Dermatology* 2013; 58:246
5. Jayaram N, Varambally S, Behere RV, Venkatasubramanian G, Arasappa R, Christopher R, Gangadhar BN. Effect of Yoga Therapy on Plasma Oxytocin and Facial Emotion Recognition Deficits in Patients of Schizophrenia. *Indian Journal of Psychiatry.* 2013;55 (Suppl 3):S409-13.
6. Behere RV. Dorsolateral prefrontal lobe volume and neurological soft signs as predictors of clinical social and functional outcome in schizophrenia: A longitudinal study. *Indian J Psychiatry.* 2013;55(2):111-6.
7. Ghosh S, Behere RV, Sharma P, Sreejayan K. Psychiatric evaluation in dermatology: an overview. *Indian J Dermatol.* 2013;58(1):39-43
8. Ghosh S, Behere RV, Sharma P, Savitha S. Relevant issues in pharmacotherapy of psycho-cutaneous disorders. *Indian J Dermatol.* 2013;58(1):61-4.
9. Bakhla AK, Verma V, Hembaram M, Praharaj SK, Sinha VK. Internal consistency and factor structure of 12-item general health questionnaire in visually impaired students. *Ind Psychiatry J* 2013; 22: 109-13.
10. Linu SG, Sharma PSVN, Nair S, Effect of Psycho-Educative Intervention on Adherence to treatment, Knowledge and Attitude among persons with Bipolar Affective Disorder – Randomised Controlled Trial, *IOSR Journal of Nursing and Health Science* 2013; 1,(5); 12-17
11. Sandeep Grover, Ajit Avasthi, Kamal Kalita, P. K. Dalal, G. P. Rao, R. K. Chadda, Bhavesh Lakdawala, Govind Bang, Kaustav Chakraborty, Sudhir Kumar, P. K. Singh, Puneet Kathuria, M. Thirunavukarasu, P. S. V. N. Sharma, T. Harish, Nilesh Shah, Kamla Deka, IPS multicentric study: Functional somatic symptoms in depression. *Indian Journal of Psychiatry* 55(1), Jan-Mar 2013; 31-40
12. Sandeep Grover, Ajit Avasthi, Kamal Kalita, P. K. Dalal, G. P. Rao, R. K. Chadda, Bhavesh Lakdawala, Govind Bang, Kaustav Chakraborty, Sudhir Kumar, P. K. Singh,

Puneet Kathuria, M. Thirunavukarasu, P. S. V. N. Sharma, T. Harish, Nilesh Shah, Kamla Deka, IPS multicentric study: Antidepressant prescription patterns. *Indian Journal of Psychiatry* 55(1), Jan-Mar 2013; 41-45

### **Year 2014**

#### **International – Indexed / Non-indexed**

1. Manoharan SV, Behere RV, Praharaj SK, Kongasseri S, Sharma PS. Russell's sign in persistent delusional disorder: a case report. *J Neuropsychiatry Clin Neurosci*. 2014 Summer;26(3):E4-5
2. Sharma PS, Kongasseri S, Praharaj SK. Outcome of mood stabilizer discontinuation in bipolar disorder after 5 years of euthymia. *J Clin Psychopharmacol*. 2014 Aug;34(4):504-7.
3. Sreejayan K, Sharma PSVN. Psychological Aspects of Wounds. *JSWCR* 2014; 7(1): 8-16
4. Saraf G, Behere RV, Venkatasubramanian G, Rao NP, Varambally S, Gangadhar BN. Hyperprolactinemia with aripiprazole: Understanding the paradox. *American Journal of Therapeutics*. 2014;21(3):e80-81.
5. Malkarnekar N, Behere RV, Bhandary RP, Praharaj SK, Kongasseri S, Sharma PSVN. Olfactory perceptual abnormality associated with vitamin B12 deficiency. *Psychosomatics*. 2014;55(3)310-11.
6. Sinha S, Udupa S, Bhandary RP, Praharaj SK, Munoli RN. Sertraline-induced acneiform eruption; *The Journal of Neuropsychiatry and Clinical Neurosciences*, 2014 Apr 1;26(2):E56-7.
7. Praharaj SK, Munoli RN, Sharma PS. Low-dose glycopyrrolate for clozapine-associated sialorrhea. *Journal of Clinical Psychopharmacology*. 2014 Jun;34(3):392.
8. Sarkar S, Gangadhar S, Subramaniam E, Praharaj SK. Seizure with sertraline: is there a risk? *J Neuropsychiatry Clin Neurosci*. 2014 Summer;26(3):E27-8
9. Ghosh S, Chaudhury PK, Bhattacharya A, Praharaj SK. Tuberos sclerosis presenting as psychosis in an adolescent. *J Neuropsychiatry Clin Neurosci* 2014; 26: E38.
10. Ranjan A, Praharaj SK. Ciprofloxacin-induced psychosis. *J Neuropsychiatry Clin Neurosci* 2014; 26: E36-7.
11. Sinha S, Udupa S, Bhandary RP, Praharaj SK, Munoli RN. Sertraline-induced acneiform eruption. *J Neuropsychiatry Clin Neurosci* 2014; 26: E56-7.
12. Praharaj SK, Jana AK, Sarkhel S, Sinha VK. Acute dystonia, akathisia and parkinsonism induced by ziprasidone. *Am J Ther* 2014; 21: e38-40.

13. Munoli RN, Kongasseri S, Praharaj SK, Sharma PS. Bupropion precipitating acute psychosis: case report. *Am J Ther* 2014; 21: e45-7.
14. Praharaj SK, Munoli RN, Sharma PS. Low dose glycopyrrolate for clozapine-associated sialorrhea. *J Clin Psychopharmacol* 2014; 34: 392.
15. Bakhla AK, Khess CRJ, Verma V, Hembram M, Praharaj SK, Soren S. Factor structure of CIWA-Ar in alcohol withdrawal. *J Addiction* 2014; 745839: 1-7.
16. Jana AK, Ram D, Praharaj SK. Empowerment and its associations in schizophrenia: a cross-sectional study. *Community Ment Health J* 2014; 50: 697-710. Erratum. *Community Ment Health J* 2014; 50:702.
17. Sarkar S, Gangadhar S, Subramaniam E, Praharaj SK. Seizure with sertraline: is there a risk? *J Neuropsychiatry Clin Neurosci* 2014; 26: E27-8.
18. Praharaj SK. Euprolactinemic galactorrhea with escitalopram. *J Neuropsychiatry Clin Neurosci* 2014; 26: E25-6.
19. Bhattacharya A, Praharaj SK, Sinha VK. Persistent camptocormia associated with atomoxetine in a child with ADHD. *J Child Adolesc Psychopharmacol* 2014; 24: 596-7.

#### National– Indexed / Non-indexed

1. Munoli RN, Praharaj SK, Sharma PSVN. Comorbidities in Bipolar Disorder: A Retrospective Study. *Indian Journal of Psychological Medicine*, 2014 Jul;36(3):270-5.
2. Jana AK, Sircar D, Waikhom R, Praharaj SK, Pandey R, Raychowdhury A, Dasgupta S. Depression and anxiety as potential correlates of post-transplantation renal function and quality of life. *Indian J Nephrol* 2014; 24: 286-90.
3. Arora M, Praharaj SK. Olanzapine discontinuation emergent recurrence in bipolar disorder. *Indian J Psychol Med* 2014; 36: 170-3.
4. Munoli RN, Sharma PSVN, Sreejayan K, Bhandary RK, Praharaj SK. Clinical Features and Comorbidities Among Inpatients in a Tertiary Care Centre. *Andhra Pradesh Journal of Psychological Medicine*, 2014; 15 (2): 193-200.
5. Arasappa R, Rao NP, Venkatasubramanian G, Reddy NN, Behere RV, Sivakumar PT, Gangadhar BN. Rimonabant-induced depression in schizophrenia. *Indian J Psychiatry*. 2014 Apr;56(2):205

**The details of Guest Lectures have been listed below:**

#### Guest lectures

1	Psychological and Cognitive disabilities – a Doctor’s perspective” as part of Workshop	Bhandary RP	Manipal Institute of Humanitarian Studies on 18-2-2012
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	on Perspectives in Disability.		
2	Stress Management: Strategies to Balance Work with Life” – Talk for M.Com students .	Bhandary RP	Manipal institute of Management on 13 August 2014
3	Presentation on “Assessment of thought” at South zone PGCME, 10 August 2014, Madurai	Dr.Sreejayan K	South zone PGCME, 10 August 2014, Madurai
4	Presentation on “Assessment of thought” at South zone PGCME, 10 August 2014, Madurai	Dr.Sreejayan K	South zone PGCME, 10 August 2014, Madurai
5	Depression in Working Population.	Dr.Ravindra M	Guest lecture in Udupi Psychiatric Society on March 22, 2014 at Hotel Madhuvan Serai, Manipal
6	Talk and discussion with patients on alcohol relapse prevention in 757th Dharmasthala Deaddiction Camp	Dr.Ravindra M	at Kundapura, Udupi Talukla, Karnataka on 19th November 2014 from 2.30- 4 PM.
7	Invited lecture on “Recent trends in the management of Depression”.	Dr.PSVN. Sharma	Indian Psychiatric Society AP State Branch – Midterm CME 2012, at Guntur on 4 <sup>th</sup> March 2012.
8	Invited lecture on “Cardiovascular disease and psychiatric disorders – issues in diagnosis, ,management and adverse effects of medications” in the Indian Psychiatric Society.	Dr.PSVN. Sharma	South Zone CME 2012, at Rajahmundry on 7 <sup>th</sup> and 8 <sup>th</sup> April 2012
9	Invited lecture on “Psychiatric disorders with Neurological presentation” in the Goa Psychiatric Society CME on ‘Bridging the Gap Between Neurology and Psychiatry’	Dr.PSVN. Sharma	In Mollem, Goa on 11 <sup>th</sup> and 12 <sup>th</sup> August 2012.
10	Invited lecture on “Pharmacological management of positive symptoms and cognitive dysfunction in	Dr.PSVN. Sharma	Dept. of Pharmacology, KMC, Mangalore in Mangalore on 31 <sup>st</sup> October 2012.

	schizophrenia” in the CME entitled “Neuropsychopharmacology: Trends in clinical practice”.		
11	Invited lecture on “Neurobiology of Addiction & its Therapeutic Implications” in the Deccan Psychiatric Association.	Dr.PSVN. Sharma	Annual CME at Sangli, Maharashtra on 8 <sup>th</sup> and 9 <sup>th</sup> December 2012.
12	Invited lecture on “Treatment of Cognitive and Negative symptoms of Schizophrenia” in the Deccan Psychiatric Association.	Dr.PSVN. Sharma	Annual CME at Sangli, Maharashtra on 8 <sup>th</sup> and 9 <sup>th</sup> December 2012.
13	Guest speaker in PG Training program on ‘Ethics in Psychiatric Research’.	Dr.PSVN. Sharma	Institute of Mental Health, Hyderabad on 15 <sup>th</sup> Dec. 2012.
14	Invited lecture on ‘Nerobiology and treatment of OCD’ in ‘Pharma Mente’ a CME in Pharmacology, Neurology and Psychiatry	Dr.PSVN. Sharma	Organized by the Dept of Pharmacology, Fr Muller Medical College, Mangalore on 23 <sup>rd</sup> Feb 2013.
15	Invited lecture on “Ethics in research” in workshop on ‘Epidemiology, Scientific Publication & Biostatistics’ .	Dr.PSVN. Sharma	Conducted by the Dept. of Community Medicine, KMC, Manipal, in Manipal on 2013.
16	Invited lecture on “Recent trends in the management of Depression”.	Dr.PSVN. Sharma	Indian Psychiatric Society AP State Branch – Midterm CME 2012, at Guntur on 4 <sup>th</sup> March 2012.
17	Invited lecture on “Cardiovascular disease and psychiatric disorders – issues in diagnosis, ,management and adverse effects of medications” in the Indian Psychiatric Society.	Dr.PSVN. Sharma	South Zone CME 2012, at Rajahmundry on 7 <sup>th</sup> and 8 <sup>th</sup> April 2012
18	Invited lecture on “Psychiatric disorders with Neurological presentation” in the Goa	Dr.PSVN. Sharma	In Mollem, Goa on 11 <sup>th</sup> and 12 <sup>th</sup> August 2012.



	Psychiatric Society CME on 'Bridging the Gap Between Neurology and Psychiatry'		
19	Invited lecture on "Pharmacological management of positive symptoms and cognitive dysfunction in schizophrenia" in the CME entitled "Neuropsychopharmacology: Trends in clinical practice".	Dr.PSVN. Sharma	Dept. of Pharmacology, KMC, Mangalore in Mangalore on 31 <sup>st</sup> October 2012.
20	Invited lecture on "Neurobiology of Addiction & its Therapeutic Implications" in the Deccan Psychiatric Association.	Dr.PSVN. Sharma	Annual CME at Sangli, Maharashtra on 8 <sup>th</sup> and 9 <sup>th</sup> December 2012.
21	Invited lecture on "Treatment of Cognitive and Negative symptoms of Schizophrenia" in the Deccan Psychiatric Association.	Dr.PSVN. Sharma	Annual CME at Sangli, Maharashtra on 8 <sup>th</sup> and 9 <sup>th</sup> December 2012.
22	Guest speaker in PG Training program on 'Ethics in Psychiatric Research'.	Dr.PSVN. Sharma	Institute of Mental Health, Hyderabad on 15 <sup>th</sup> Dec. 2012.
23	Invited lecture on 'Neurobiology and treatment of OCD' in 'Pharma Mente' a CME in Pharmacology, Neurology and Psychiatry	Dr.PSVN. Sharma	Organized by the Dept of Pharmacology, Fr Muller Medical College, Mangalore on 23 <sup>rd</sup> Feb 2013.
24	Invited lecture on "Ethics in research" in workshop on 'Epidemiology, Scientific Publication & Biostatistics'.	Dr.PSVN. Sharma	Conducted by the Dept. of Community Medicine, KMC, Manipal, in Manipal on 2013.
25	Invited lecture on 'Neurobiology and treatment of OCD' in 'Pharma Mente' a CME in Pharmacology, Neurology and Psychiatry.	Dr.PSVN. Sharma	Dept of Pharmacology, Fr Muller Medical College, Mangalore on 23 <sup>rd</sup> Feb 2013
26	Invited lecture on "Ethics in	Dr.PSVN.	Dept. of Community



	research” in workshop on ‘Epidemiology, Scientific Publication & Biostatistics’	Sharma	Medicine, KMC, Manipal, in Manipal on 2013.
27	Invited lecture on “Somatoform Disorders” in IPS South Zone PG CME	Dr.PSVN. Sharma	Organized by the Dept. of Psychiatry, AMC & GCMH and Visakha Psychiatric Society on 6 <sup>th</sup> & 7 <sup>th</sup> July 2013.
28	Invited lecture on “Management of Common Mental Disorders in the Community”.	Dr.PSVN. Sharma	KANCIPS 2013 organised at Hassan on 2 <sup>nd</sup> & 3 <sup>rd</sup> August 2013.
29	Invited workshops on Psychopathology of thought form and content in the 2 <sup>nd</sup> PG Training Programme 2013	Dr.PSVN. Sharma	Indian Psychiatric Society Andhra Pradesh State Branch 2nd PG Training Program 2013 on 8th December at Visakhapatnam.
30	Invited lecture on “Psychopathology of Mood Disorders”.	Dr.PSVN. Sharma	In the IPS Kerala Branch Post Graduate training programme 2014 held at Calicut on 27 <sup>th</sup> April 2014
31	Invited workshop on “Key to success in the MD Psychiatry examination”.	Dr.PSVN. Sharma	Conducted in the IPS Kerala Branch Post Graduate training programme 2014 held at Calicut on 27 <sup>th</sup> April 2014.
32	Invited lecture on “Ethics and Consent in Clinical Psychiatry” in the IPS West Zone Branch Postgraduate CME.	Dr.PSVN. Sharma	Conducted at IPHB, Panaji, Goa on 6 <sup>th</sup> and 7 <sup>th</sup> December 2014.

### **Conference attended**

1. Dr.Ravindra M, Workshop: Sex Therapy held on March 17, 2012 at Department of Clinical Psychology, MOCAHS, Manipal, India.
2. Dr.Ravindra M, Conference: “KANCIPS 2012” Annual Conference of the Indian Psychiatric Society Karnataka chapter, Theme- Therapeutic Challenges in Psychiatry held on September 29 - 30, 2012 atMangalore, Karnataka, India.

3. Dr.Mahima A,Conference: “KANCIPS 2012” Annual Conference of the Indian Psychiatric Society Karnataka chapter, Theme- Therapeutic Challenges in Psychiatry held on September 29 – 30, 2012 at Mangalore, Karnataka, India.
4. Dr.SM.Bhat, participated in the National Conference of Indian Society of Professional social work and chaired a session in Jan. 2013.
5. Dr.SM.Bhat, participated in the National Conference of Indian Society of Professional social work and chaired a session in Jan. 2013.
6. Dr.SM.Bhat, attended Psychiatry Update Nov. 2013 at KMC Hospital, Manipal.
7. Dr.SM.Bhat, participated and chaired a session for IPS-South Zone CME 23<sup>rd</sup>& 24<sup>th</sup> March 2013 at KMC, Manipal.
8. Dr.Rishikesh VB, Annual national conference of Indian psychiatric society, Bangalore, January 2013
9. Dr.Rishikesh VB, Annual National Conference of Indian Association of Biological Psychiatry (IABP), Srinagar, September 2013
10. Dr.Sreejayan K, Ayurvision 2013 22 – 23 November 2013, Manipal.
11. Dr.Ravindra M, Continuing Medical Education on Substance Abuse and Child and Adolescent Psychiatry, held on November 10 - 11, 2013 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India.
12. Dr.Ravindra M, Conference: “ANCISPSW 2013” 31st Annual Conference of the Indian Society of Professional Social Work, Theme- Challenges and Innovations in Professional Social Work held on January 3 - 5, 2013 at MIT campus, Manipal, Karnataka, India, organized by Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
13. Dr.Ravindra M, Conference: “ANCIPS 2013” 65th Annual Conference of the Indian Psychiatric Society held from January 10 – 13, 2013 at Bengalooru, Karnataka, India.
14. Dr.Ravindra M, Conference: “IPS-SZ CME” Indian Psychiatric Society South Zone CME 2013 held on March 23-24, 2013 at Fortune Inn Valley View, Manipal; organized by Department of Psychiatry,Kasturba Medical College, Manipal, Karnataka, India.
15. Dr.Ravindra M,Workshop: Training of trainers held on June 3 -4, 2013 at Mysore Medical College and Research Institute organized by British Indian Psychiatric Society (BIPA) and Department of Psychiatry, MMCRI, Mysore, Karnataka, India.
16. Dr.Ravindra M, Conference: “IPSOCON-2013” (Annual National Conference of Indian Psychiatric Society South Zone) held on 18-20 October, 2013 at Kumarkom, Kerala, India.
17. Dr.Ravindra M, Continuing Medical Education on Psychotherapy Workshops, held on

- November 16 – 17, 2013 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
18. Dr.Mahima A, Continuing Medical Education on Substance Abuse and Child and Adolescent Psychiatry, held on November 10 - 11, 2013 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India.
  19. Dr.Mahima A,Conference: “ANCISPSW 2013” 31st Annual Conference of the Indian Society of Professional Social Work, Theme- Challenges and Innovations in Professional Social Work held on January 3 - 5, 2013 at MIT campus, Manipal, Karnataka, India, organized by Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
  20. Dr.Mahima A, Conference: “ANCIPS 2013” 65th Annual Conference of the Indian Psychiatric Society held from January 10 – 13, 2013 at Bengalooru, Karnataka, India.
  21. Dr.Mahima A, Conference: “IPS-SZ CME” Indian Psychiatric Society South Zone CME 2013 held on March 23-24, 2013 at Fortune Inn Valley View, Manipal; organized by Department of Psychiatry,Kasturba Medical College, Manipal, Karnataka, India
  22. Dr.Mahima A Workshop: Counselling skills for teachers organized by Department of Student Affairs, Manipal University, Manipal, Karnataka, India. The workshop was conducted 5 times on March 11-12, April 15-16, May 20-21, July 15-16, August 30-31 of 2013.
  23. Workshop: Training of trainers held on June 3 -4, 2013 at Mysore Medical College and Research Institute organized by British Indian Psychiatric Society (BIPA) and Department of Psychiatry, MMCRI, Mysore, Karnataka, India.
  24. Dr.Mahima A, Continuing Medical Education on Psychotherapy Workshops, held on November 16 - 17,2013 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
  25. Dr.Avinash K, Continuing Medical Education on Substance Abuse and Child and Adolescent Psychiatry, held on November 10 - 11, 2013 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India.
  26. Dr.Avinash K, Conference: “ANCISPSW 2013” 31st Annual Conference of the Indian Society of Professional Social Work, Theme- Challenges and Innovations in Professional Social Work held on January 3 - 5, 2013 at MIT campus, Manipal, Karnataka, India, organized by Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
  27. Dr.Avinash K, Conference: “ANCIPS 2013” 65th Annual Conference of the Indian Psychiatric Society held from January 10 – 13, 2013 at Bengalooru, Karnataka, India.
  28. Dr.Avinash K, Conference: “IPS-SZ CME” Indian Psychiatric Society South Zone CME 2013 held on March 23-24, 2013 at Fortune Inn Valley View, Manipal;

- organized by Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India.
29. Dr.Avinash K, Continuing Medical Education on Psychotherapy Workshops, held on 30. November 16 - 17, 2013 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India.
  31. Dr.SM.Bhat, Organizing chairman for IPS-Karnataka chapter Annual Conference held at Udupi on 6<sup>th</sup> & 7<sup>th</sup> Sept. 2014
  32. Dr.SM.Bhat, attended IPS-KC CME held at Bangalore on 1<sup>st</sup> June 2014.
  33. Dr.SM.Bhat, attended IPS-South Zone conference held at Bangalore in Oct. 2014. Attended CME of IPS-Soputh Zone in Oct. 2014 along with IPS-South Zone Annual Conference.
  34. Dr.SM.Bhat, functioned as CME chairman for IPS South Zone for year 2014.
  35. Dr.Avinash K, Workshop: Counselling skills for teachers organized by Department of Student Affairs, Manipal University, Manipal, Karnataka, India. The workshop was conducted 7 times on March 11-12, April 15-16, May 20-21, July 15-16, August 30-31, September 30- October 1 of 2013 and February 19-20 of 2014.
  36. Dr.Preeti S - CME on child and adolescent mental health in St John's Medical College, Global Autism Convention in NIMHANS, Indian Psychiatry Society south zone PG training Program
  37. NIMRPSYCON 2014 the 2<sup>nd</sup> joint conference of NIMHANS and Royal college of psychiatrists UK 7-8 march 2014 (poster presentation)
  38. Dr.Rishikesh VB, Annual national conference of Indian psychiatric society, Pune, January 2014
  39. Dr.Rishikesh VB, International Conference on Schizophrenia August 2014, Chennai.
  40. Dr.Sreejayan K, South zone PGCME, 10 August 2014, Madurai
  41. Dr.Sreejayan K, Psychiatry Update 2014, Manipal 16 November 2014
  42. Dr.Ravindra M, Workshop: Counselling skills for teachers organized by Department of Student Affairs, Manipal University, Manipal, Karnataka, India. The workshop was conducted 7 times on March 11-12, April 15-16, May 20-21, July 15-16, August 30-31, September 30- October 1 of 2013 and February 19-20 of 2014.
  43. Dr.Ravindra M, Conference: "ANCIPS 2014" 66th Annual Conference of the Indian Psychiatric Society held from January 16 – 19, 2014 at Pune, Maharashtra, India.
  44. Dr.Ravindra, Continuing Medical Education: Indian Psychiatric Society South Zone- Post Graduate CME (IPS-SZ PG CME), held on August 9 – 10, 2014 at Hotel Sangam, Madurai, Tamil Nadu.
  45. Dr.Ravindra M, Conference: "KANCIPS 2014" Annual Conference of the Indian Psychiatric Society- Karnataka chapter, Theme- Mind and Brain Interface held on September 6 - 7, 2014 at Udupi, Karnataka, India.

46. Dr.Ravindra M, Conference: “IPSOCON-2014” (Annual National Conference of Indian Psychiatric Society South Zone) held on 16-18 October, 2014 at Bengalooru, India.
47. Dr.Ravindra M, Continuing Medical Education on Neuropsychological Assessment and Cognitive Remediation, held on November 15 - 16, 2014 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
48. Dr.Mahima A, Conference: “KANCIPS 2014” Annual Conference of the Indian Psychiatric Society- Karnataka chapter, Theme- Mind and Brain Interface held on September 6 - 7, 2014 at Udupi, Karnataka, India.
49. Dr.Mahima A, Continuing Medical Education on Neuropsychological Assessment and Cognitive Remediation, held on November 15 - 16, 2014 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
50. Dr.Avinash K, Conference: “ANCIPS 2014” 66th Annual Conference of the Indian Psychiatric Society held from January 16 – 19, 2014 at Pune, Maharashtra, India.
51. Dr.Avinash K, Conference: “KANCIPS 2014” Annual Conference of the Indian Psychiatric Society Karnataka chapter, Theme- Mind and Brain Interface held on September 6 - 7, 2014 at Udupi, Karnataka, India.
52. Dr.Avinash K, Continuing Medical Education on Neuropsychological Assessment and Cognitive Remediation, held on November 15 - 16, 2014 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India
53. Dr.Thippeswamy V Has Participated as delegate in the 24<sup>th</sup> Annual Conference of the Indian Psychiatric Society – Karnataka Chapter, KANCIPS-2014 on the theme “Mind and Brain Interface” organized by Udupi Psychiatric Society at Hotel Kediyoor, Udupi on 6<sup>th</sup> and 7<sup>th</sup> September 2014.

### **Details of Conference Presentation:**

#### **Year 2012**

#### **Paper Presentations:**

1. Srivastava, V., Bakhla, A.K., Praharaj, S.K., Sinha, V.K. Correlation of impulsivity and aggression in various psychiatric disorders among adolescent population. Paper presented at the 64<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS), Kochi, India from 19<sup>th</sup> – 22<sup>nd</sup> January, 2012.
2. Lavania, S., Khan, A.H., Nizamie, S.H., Das, B., Praharaj, S.K. Polysomnographic sleep parameters and brain computed tomographic changes: A comparative study in patients of major depression and their first degree relatives. Paper presented at the 64<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS), Kochi, India from 19<sup>th</sup> – 22<sup>nd</sup> January, 2012.

3. Singh, L.K., Praharaj, S.K., Prakash, R., Khess, C.R.J. High-density lipoprotein as a state marker for dependent status of mahua. Paper presented at the 64<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS), Kochi, India from 19<sup>th</sup> – 22<sup>nd</sup> January, 2012.
4. Lavania, S., Ram, D., Praharaj, S.K. Life stressors associated with deliberate self-harm in male patients with substance dependence syndrome. Paper presented at the 108<sup>th</sup> Annual Meeting of the Japanese Society of Psychiatry and Neurology, Sapporo, Japan from 24<sup>th</sup> – 26<sup>th</sup> May 2012.
5. Praharaj, S.K. Consensus on diagnosis and treatment. Presentation as part of Early Career Psychiatrist Programme in The World Psychiatric Association Regional Meeting on Mental Health and Disaster: Beyond Emergency Response, held at Nusa Dua, Bali, Indonesia from 13<sup>th</sup> to 15<sup>th</sup> September 2012.
6. Rishikesh VB, Enhanced Emotional threat perception and right cerebral hemispheric dysfunction in schizophrenia” – oral presentation for Young Psychiatrist Award at Annual National Conference of Indian Psychiatric Society 2012 Kochi
7. RishikeshVB, “Social Cognition and functioning in schizophrenia” – Oral presentation in symposium on ‘Barriers on road to functional recovery in schizophrenia’ at Annual National Conference of Indian Psychiatric Society 2012 Kochi.
8. Rishiksh VB, “Social Cognition: A new dimension in schizophrenia”. Oral presentation in Symposium at the International Conference on Schizophrenia (ICONS) 2012, Chennai, September 2012.
9. Aravind Raj, Capacity building for social work students on psychosocial care for survivors of disaster. 4th Pan American Regional conference of World Association of Disaster and Emergency Medicine held at National Conference Center, Leesburg, Virginia, USA. 15<sup>th</sup> – 18<sup>th</sup> from October 2012
10. Aravind Raj, Effectiveness of training program on psychosocial disaster preparedness for children’ among NGO Workers. 4th Pan American Regional conference of World Association of Disaster and Emergency Medicine held at National Conference Center, Leesburg, Virginia, USA. 15<sup>th</sup> – 18<sup>th</sup> October 2012
11. Aravind Raj, Psychosocial Disaster Preparedness among school children – A participatory learning approach. Annual National conference of Indian Society of Professional Social Work. National Institute of Mental Health And Neuro Science, Bangalore. 5<sup>th</sup> to 7<sup>th</sup> January 2012.
12. Sinu E, Presented a paper on “Family Involvement in the recovery process of persons treated for Alcohol dependence syndrome” in the International Conference On Global Public Health, Held at Hotel Galadari, Colombo, Sri Lanka, 3-4, Dec 2012.



13. Sinu E, Co-authored a paper presentation on “Impact of half-way home care services for persons with Psychiatric Disability” in the 11<sup>th</sup> World Congress WAPR Milan, Italy, 10-13 November 2012.
14. Sinu E, Co-authored a paper presentation on "Capacity building for social work students on psychosocial care for survivors of disaster" in The 4<sup>th</sup> Pan American Conference, at National Conference Center, Leesburg, Virginia, USA, Organized by World Association for Disaster and Emergency Medicine, 15-17 October 2012.
15. Sinu E, Presented a Paper on “Social Work practice with persons with alcohol dependence in a multi-linguistic context: A Bangalore Based Study” National Conference on “Redefining Social Work Profession In Multi-Cultural Contexts” on 11th & 12th October 2012
16. Sinu E, Presented a paper on “Social factors associated with long term abstinence in alcohol dependence” in International conference on Social Work Practice in Multi-cultural Context held at Tumkur University, organized by Department of Research and Studies in Social Work, Tumkur University, Tumkur 2<sup>nd</sup> – 4<sup>th</sup> March 2012.
17. RajiniGopinath, *presented a paper on* Psychosocial Intervention in a Residential School*Conference- ANCISPSW 2012, NIMHANS, Bangalore*6.1. 2012.
18. Dr.Thippeswamy V, Substance Use among Business Process Outsourcing Personnel”, at the 30<sup>th</sup> Annual National Conference of the Indian Society of Professional Social Work, held at Convention Centre, NIMHANS, Bangalore, Karnataka, India, 5<sup>th</sup> to 7<sup>th</sup> January 2012.
19. Dr.Thippeswamy V, “Impact of Alcohol Abuse on Quality of Marital Life”, at the 30<sup>th</sup> Annual National Conference of the Indian Society of Professional Social Work, NIMHANS, held at Convention Centre, NIMHANS, Bangalore, Karnataka, India, 5<sup>th</sup> to 7<sup>th</sup> January 2012.
20. Dr.Thippeswamy V, “Corporate Social Responsibility”, at the 30<sup>th</sup> Annual National Conference of the Indian Society of Professional Social Work, held at Convention Centre, NIMHANS, Bangalore, Karnataka, India, 5<sup>th</sup> to 7<sup>th</sup> January 2012.

#### **Poster Presentations:**

1. Sreejayan K, Amritha S Dinesh K. Psychoapthology, cognitive functions and quality of life in schizophrenia patients with and without metabolic syndrome. Poster presented at ICONS of SCARF, International conference on schizophrenia, Chennai Sept2012
2. Rishikesh VB, “Neurological sequela of atypical neuroleptic malignant syndrome” – poster presentation at Annual National Conference of Indian Psychiatric Society 2012 Kochi



3. Rishikesh VB, “Enhanced emotional threat perception: A neurodevelopmental marker for schizophrenia?”. Poster presentation at the International Conference on Schizophrenia (ICONS) 2012, Chennai, September 2012.
4. Dr. Rajeshkrishna Bhandary P, Dr. Suma Udupa, Dr. PSVN Sharma. Prevalence of Treatment resistance in patients diagnosed with Schizophrenia, placed in a rehabilitation centre situated in Coastal Karnataka. at 1<sup>st</sup> National Symposium on rehabilitation, NIMHANS in September 2012
5. Praharaj, S.K., Jana, A.K., Goswami, K., Das, P.R., Goyal, N., Sinha, V.K. Heart rates in patients with schizophrenia on clozapine. Poster presented at the 64<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS), Kochi, India from 19<sup>th</sup> – 22<sup>nd</sup> January, 2012.
6. Praharaj, S.K., Sreejayan, K. Naphthalene addiction. Poster presented at the 64<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS), Kochi, India from 19<sup>th</sup> – 22<sup>nd</sup> January, 2012.
7. Praharaj, S.K., Behere, R.V., Sreejayan, K., Sharma, P.S.V.N. Severe thumb biting as a stereotypic movement disorder. Poster presented at the 64<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS), Kochi, India from 19<sup>th</sup> – 22<sup>nd</sup> January, 2012.
8. Behere, R.V., Praharaj, S.K., Sreejayan, K., Sharma, P.S.V.N. Neurological sequelae of atypical neuroleptic malignant syndrome. Poster presented at the 64<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS), Kochi, India from 19<sup>th</sup> – 22<sup>nd</sup> January, 2012.
9. Munoli, R.N., Sharma, P.S.V.N., Sreejayan, K., Bhandary, R.P., Praharaj, S.K. Socio-demographic and clinical correlates of course of depression. Poster presented and received the best poster award at the Annual National Conference of Indian Psychiatric Society – Karnataka Branch (KANCIPS), Mangalore, India from 29<sup>th</sup>-30<sup>th</sup> September, 2012.
10. Acharya, M., Bhat, S.M., Bhandary, P.V., Praharaj, S.K. Diagnostic subtypes in acute and transient psychotic disorder: a cross-sectional study. Poster presented at the Annual National Conference of Indian Psychiatric Society – Karnataka Branch (KANCIPS), Mangalore, India from 29<sup>th</sup>-30<sup>th</sup> September, 2012.
11. SenthilVelRajan, R., Behere, R.V., Praharaj, S.K., Sreejayan, K., Sharma, P.S.V.N. Russel’s sign in chronic schizophrenia: a case report. Poster presented at the Annual National Conference of Indian Psychiatric Society – Karnataka Branch (KANCIPS), Mangalore, India from 29<sup>th</sup>-30<sup>th</sup> September, 2012.
12. Bamalwa, M., Mahmood, S.N., Praharaj, S.K. Delirium in cardiac ICU patients. Poster presented at the Manipal Cardiology Update 2012, organized by Department of

- Cardiology, Kasturba Medical College and Hospital, Manipal, Karnataka, India on 1<sup>st</sup> November 2012.
13. Ravindra NM, Socio-demographic and Clinical Correlates of Course of Depression: 6 Months Follow-up Study. KANCIPS – 2012, Mangalore, September 29 - 30, 2012
  14. Manas ER, Maintenance ECT for control of aggression in Pervasive developmental Disorders poster presentation at Mangalore, KANCIPS 2012.
  15. Mahima Acharya, Diagnostic Subtypes in Acute and Transient Psychosis: A Cross sectional Study, KANCIPS – 2012, Mangalore, September 29 - 30, 2012
  16. RK. Bhandary, Prevalence of Treatment Resistance in Patients Diagnosed with Schizophrenia in a rehabilitation centre situated in coastal Karnataka. National Symposium on Rehabilitation, NIMHANS, Bangalore, September 1<sup>st</sup> 2012
  17. Rajini Gopinath, Outcome of Transitional Employment in Individuals with Chronic Psychiatric Disorders Symposium on Recovery from Mental Illness: Towards Life beyond Symptom Relief & Recovery, NIMHANS, Bangalore 1.9.2012.
  18. Arjit Gaurav, Dr. Samir P. Praharaj, Mood Disorder Co-Morbid Spino-Cerebellar Ataxia Type 2 – A Case Report, ANCIPS 2013, Bangalore, 12-1-2013
  19. Arjit Gaurav, Dr. R K. Bhandary, Assessment Of Quality Of Life In Patients Residing Psychiatric Rehabilitation Centre- A Cross Sectional Study In A Psychiatric Rehabilitation Centre XXXI ANC ISPSW 2013, KMC Manipal, 4-1-2013
  19. Diagnostic Clarification in a 15 year old Girl: A Case Report Ruben John, Avinash Kamath, Ravindra Munoli, Shripathy M Bhat Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.

## 2013

### Paper & Poster Presentation:

1. Sonu Rose Jose, A study on palliative care as a stressful occupation for care providers with special reference to 'HOPE' palliative care, Kannur" XXXI Annual National Conference of Indian Society of Professional Social Work on 05-01-2013 at ANCISPSW 2013, Manipal.
2. Pramod Kumar, A study on the role of special teachers in special school, with reference to udupidistrict XXXI Annual National Conference of Indian Society of Professional Social Work ANCISPSW 3 – 5 Jan. 2013, Manipal.
3. Dr. Sreejayan K. Presentation on “Assessment and management of erectile dysfunction” at Ayurvision 2013 22 – 23 November 2013, Manipal
4. Ravindra Munoli PSVN Sharma, Sreejayan K, Rajeshkrishna Bhandary, Samir Kumar Praharaj. Life Events in Depression: A Hospital Based Study ANCISPSW – 2013

- (31st Annual Conference of the Indian Society of Professional Social Work) held on January 3 - 5, 2013.
5. Praharaj SK, Munoli RN, Sharma PSVN. Glycopyrrolate for clozapine induced sialorrhoea. e-Poster presented at the 65th Annual National Conference of Indian Psychiatric Society (ANCIPS), Bengaluru. 9th – 12th January, 2013.
  6. Praharaj SK, Sharma PSVN, Is weight gain lower with orally disintegrating vs standard olanzapine?. e-Poster presented at the 65th Annual National Conference of Indian Psychiatric Society (ANCIPS), Bengaluru, India from 9th – 12th January, 2013.
  7. Sinha S, Udupa S, Bhandary RK, Praharaj SK, Munoli RN, Sertraline-induced acne vulgaris – A case report. e-Poster presented at the 65th Annual National Conference of Indian Psychiatric Society (ANCIPS) Bengaluru, India from 9th – 12th January, 2013.
  8. Kumar V, Kamath A, Praharaj SK, Bhat SM, Late onset seasonal mood disorder - A case report. e-Poster presented at the 65th Annual National Conference of Indian Psychiatric Society (ANCIPS) Bengaluru, India from 9th – 12th January, 2013.
  9. Gaurav A, Praharaj SK, Mood disorder comorbid with spinocerebellar ataxia type 2: A case report. e-Poster presented at the 65th Annual National Conference of Indian Psychiatric Society (ANCIPS) Bengaluru, India from 9th – 12th January, 2013.
  10. Ranjan A, Praharaj SK, Munoli RN, Ciprofloxacin-induced psychosis. e-Poster presented at the 65th Annual National Conference of Indian Psychiatric Society (ANCIPS), Bengaluru, India from 9th – 12th January, 2013.
  11. Munoli RN, Praharaj SK, Bhat SM, Fourth ventricle tumour associated with schizo-affective disorder. e-Poster presented at the 65th Annual National Conference of Indian Psychiatric Society (ANCIPS) Bengaluru, India from 9th – 12th January, 2013.

## **2014**

### **Paper & Poster Presentation:**

1. Manjunadh M, Shripathy M Bhat, Ravindra Munoli. Gender and Bipolar Disorder: A Cross Sectional Study of Patients Visiting a Tertiary Care Centre. KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014
2. Dr. Sreejayan K, Using short films to teach psychopathology to non psychiatry students” at NIMRPSYCON 2014 the 2<sup>nd</sup> joint conference of NIMHANS and Royal college of psychiatrists UK 7-8 march 2014.
3. Praharaj SK, Sharma PSVN, Role of life events in alcoholic relapse. Paper presented at the 66<sup>th</sup> Annual National Conference of Indian Psychiatric Society (ANCIPS) Pune, India from 16<sup>th</sup> – 19<sup>th</sup> January, 2014.
4. Reddy S, Bhaumik U, Sharma PSVN, Praharaj SK, Vemanna N, Study of factors predicting follow up and attrition, in the course of alcohol dependence syndrome.

- Poster presented at the 24<sup>th</sup> Annual Conference of Indian Psychiatric Society – Karnataka Chapter (KANCIPS –2014)Udupi, Karnataka, India, on 6<sup>th</sup> and 7<sup>th</sup> September, 2014.
5. Premchand, Theja V, Sharma PSVN, Praharaj SK, Vemanna N, Comorbidities in alcoholdependent patients. Poster presented at the 24<sup>th</sup> Annual Conference of Indian Psychiatric Society – Karnataka Chapter (KANCIPS – 2014)Udupi, Karnataka, India, on 6<sup>th</sup> and 7<sup>th</sup> September, 2014.
  6. Bhandary RP, Sharma PSVN, Udupa S, Gopinath R, Rao G, Munoli R, Impact of a residentialrehabilitation set up on level of functioning: A retrospective follow up study. Impact of a residential rehabilitation set up on level of functioning: A retrospective follow up study.
  7. Satyakant Trivedi, Ravindra Munoli, Shwetha Rai, Behavioural Therapy for Alektorophobia: A Case Report Poster Presentation at ANCIPS-2014 (66th Annual Conference of the Indian Psychiatric Society) held from January 16 – 19, 2014 at Pune, Maharashtra, India.
  8. Ankit Moga, Ravindra Munoli, Samir Kumar Praharaj , Phenomenology of Alcohol Induced Psychosis: A Retrospective File Review of Patients Admitted at Tertiary Care Hospital Alcohol Unit Poster Presentation at ANCIPS-2014 (66th Annual Conference of the Indian Psychiatric Society) held from January 16 – 19, 2014 at Pune, Maharashtra, India.
  9. Rajeshkrishna Bhandary, Suma Udupa, Rajini Gopinath, Ravindra Munoli, Gunasagari Rao, Effect of Psychosocial Intervention in Rehabilitation Setup, Paper Presentation at ANCIPS-2014 (66th Annual Conference of the Indian Psychiatric Society) held from January 16 – 19, 2014 at Pune, Maharashtra, India.
  10. Aparajita Arora, Ravindra Munoli, Haridas K, Don't Remember Marrying You: Dissociative Amnesia Case Report, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.
  11. Aparajita Arora, Ravindra Munoli, Haridas K, Escitalopram Induced Dystonia: A Case Report, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6-7,2014 at Kediyooru Hotels, Udupi, Karnataka, India.
  12. Manasa Kaja, Ravindra Munoli, Shripathy M Bhat, Cotard's syndrome- Extreme Skepticism Regarding one's Own Self: A Case Report, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.
  13. Manasa Kaja, Ravindra Munoli, Shripathy M Bhat, Neuropsychiatry Interface in Huntington's Disease: A Case Report, Poster presentation in KANCIPS – 2014

- (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.
14. Manjunadh M, Ravindra Munoli, Shripathy M Bhat, Catatonia or Wilson's? Go- No go Situation: A Case Report of Neuropsychiatry Interface, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.
  15. Potula Namrata, Ravindra Munoli, Shripathy M Bhat, Economic Stress and Coercive Family Process in the Development of Psychopathology: A Case Report, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi,
  16. Potula Namrata, Ravindra Munoli, Neurological disorders masquerading wilson's disease resulting in delayed diagnosis and a catastrophic outcome, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.
  17. Prashanth Peethala, Ravindra Munoli, Haridas K, Ciprofloxacin Induced Psychosis: A Case Report Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.
  18. Praveen Kumar Dontula, Ravindra Munoli, Sreejayan K, Dose Dependent Bupropion Induced Seizure: A Case report, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India
  19. Ruben John, AVinash Kamath, Ravindra Munoli, Shripathy M Bhat, Diagnostic Clarification in a 15 year old Girl: A Case Report, Poster presentation in KANCIPS – 2014 (Annual Conference of the Indian Psychiatric Society- Karnataka chapter) held on September 6- 7, 2014 at Kediyooru Hotels, Udupi, Karnataka, India.
  20. Ravindra Munoli, Samir Kumar Praharaj, Shripathy M Bhat, Duloxetine Induced Myoclonic Jerks- A case Report. Poster presentation at IPSOCON-2014 (Annual National Conference of Indian Psychiatric Society South Zone) held on 16-18 October, 2014 at Bengalooru, Karnataka, India.

### **Chairing Sessions / Keynote Address**

1. PSVN.Sharma judge of papers and chairpersons of award session in ICONS 5, Interventions conference on Schizophrenia on 21 – 23<sup>rd</sup> Sept. 2012, Chennai.
2. PSVN.Sharma Moderator of Panel discussion in IPS – Karnataka State Branch Annual Conference, on 29<sup>th</sup> & 30<sup>th</sup> Sept. 2012 at Mangalore.
3. SM.Bhat, chaired a Free Paper Session in IPSOCON 2012 on 12<sup>th</sup> to 14<sup>th</sup> Madurai.



4. Savitha S, Psychiatry expert in panel discussion on psychodermatology in “Training programme for dermatologists in non- pharmacological interventions (psychological) in dermatology” conducted by the dept. of dermatology, KMC, Manipal at Manipal centre for professional development on 17/11/2012 and 18/11/2012
5. Aravind Raj. Stress Management. Orientation program for teachers of MadhavaKripa School. MadhavaKripa School, Manipal. 25<sup>th</sup> May 2012
6. Aravind Raj. Awareness program on drug abuse. St. Francis Xavier English Medium School, Udyavara, Udupi. 13<sup>th</sup> July 2012.
7. Aravind Raj. Catering to the psychosocial needs of men and women in disaster. Training program on Gender and Disaster. NIDM, New Delhi. 19<sup>th</sup> July 2012.
8. Aravind Raj. Psychosocial care in disaster management. Training course in public health emergencies and disasters: Preparedness and response. Raja Rajeswari medical college and hospital, Bangalore. 12<sup>th</sup> Sep 2012.
9. Aravind Raj. Stress Management. Professional and Personal Development Workshop for Non-teaching staff of MU. 24<sup>th</sup> March, 31<sup>st</sup> March & 04<sup>th</sup> Dec 2012.

#### **Workshops (as Resource Person)**

1. ShripathyM.Bhat, Delegate in Therapeutic Challenges in Psychiatry organized by Mangalore Psychiatric Society on 29<sup>th</sup>& 30<sup>th</sup> Sept. 2012 at Mangalore.
2. RajiniGopinath, Workshop on psychosocial care in disaster management. Dept of Psychiatry, KMC, Manipal. 27<sup>th</sup> – 29<sup>th</sup> March 2012.
3. Sinu E, Conducted workshop on “Psychosocial Care in Disaster Management” for Faculties and Students of National Institute of Social Development, Rajagiriya, Colombo, Srilanka on 5<sup>th</sup> Dec, 2012.
4. Sreejayan K, Resource person for “ Bedside evaluation of cognitive functions” at psychiatry Update 2014, Manipal 16 November 2014
5. Dr.Avinash K, Resource Person in Workshop: Counselling skills for teachers organized ByDepartment of Student Affairs, Manipal University, Manipal, Karnataka, India. February 19-20 of 2014.
6. Dr.Thippeswamy V, Contributed has a resource person in the “Workshop onManagement of Persons with Tobacco Use Disorders” jointly organized by the Departments of Community Medicine and Psychiatry, Kasturba Medical College, Manipal University, Manipal in Association with Dr.TMA Pai Endowment Chair for Social Entrepreneurship at the Department of Community Medicine on 22<sup>nd</sup>of May 2014.
7. Dr.Avinash K, Resource person in Neuropsychological Assessment and Cognitive Remediation Workshops held on November 15 - 16, 2014 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India.

8. Dr.Ravindra M, Resource Person in Workshop: Counselling skills for teachers organized by department of Student Affairs, Manipal University, Manipal, Karnataka, India. February 19-20 of 2014.
9. Dr.Ravindra M, Resource Person in Indian Psychiatric Society South Zone- Post Graduate CME (IPS-SZ PG CME), held on August 9 – 10, 2014 at Hotel Sangam, Madurai, Tamil Nadu. Topic: Mental Status Examination.
10. Dr.Ravindra M, Resource Person in Pre- CME workshop of KANCIPS 2014 at Baliga Hospital, Udupi on September 5, 2014. Topic: Psychological issues in School Children.
11. Dr.Ravindra M, Resource person in Neuropsychological Assessment and Cognitive Remediation Workshops held on November 15 - 16, 2014 at Department of Psychiatry, Kasturba Medical College, Manipal, Karnataka, India.

## **12. Placement record of the past students and the contribution of the department to aid student Placements.**

Nil

## **13. Plan of action of the department for the next five years.**

- i. Department aims at improving the current curriculum beyond the prescriptions of MCI to make it on par with established mental health institutions in India and abroad. We plan to include modern teaching methods like problem based learning and OSCEs.
- ii. We plan to improve on the assessment methods to assess changes in knowledge, skills and Attitudes. More emphasis is to be given on clinical assessment. For this we plan to introduce other Assessment methods like MCQs, OSCEs etc.
- iii. Continue the annual CME conducted by the department regularly and also conduct National and State Conferences. To improve on research activities and publications and explore new avenues for Research grants.
- iv. To improve on interdepartmental research projects.
- v. To encourage faculty in getting trained in newer teaching, learning and evaluation methodologies so that they can be affectively included in the current curriculum.
- vi. The Department plans to start Telepsychiatry services to provide accessibility of psychiatric services to the remote rural areas of the district.
- vii. Expanding rehabilitation services to patients with chronic mental disorders
- viii. To increase community outreach by expanding network of satellite psychiatry centers run by the Department.
- ix. To enhance the number of PhD research projects guided by department faculty.
- x. To initiate research in the area of interventional psychiatry including trans-cranial direct current stimulation and trans-cranial magnetic stimulation.
- xi. To develop the department as a center for research and training on social cognition deficits in schizophrenia and its treatment.



## PULMONARY MEDICINE

### 1. Faculty profile: adequacy and competency of faculty

The department of Pulmonary Medicine, Kasturba Medical College, Manipal consists of 08 faculties, catering to the teaching requirements of undergraduates (MBBS students), Postgraduate, Respiratory Therapy, Physiotherapy students and Respiratory Laboratory technicians. All the faculties are fully qualified to conduct clinical work and carry out academic activities. We have at present 02 Professors, 2 Associate Professor, 02 Assistant Professor, 03 senior residents and 04 Junior Residents.

#### Faculty list

Sl. No	Faculty	Qualification	Designation	Teaching Experience in years
1	DrAswini Kumar Mohapatra	MBBS,MD	Professor & Head	17
2	Dr. Rahul Magazine	MBBS, MD, DTCD	Professor	14
3	Dr. PreetamRajgopalAcharya	MBBS, MD	Assoc. Prof.	13
4	Dr. Manu Mohan K	MBBS, DNB	Assoc. Prof.	13
5	Dr. Prabhu Prasad N.C	MBBS, MD	Asst. Prof.	2
6	Dr. Arjuns H satapute	MBBS,MD	Asst. Prof.	1
7	Dr. Sagar c	MBBS,DTCD, DNB	Senior resident	1
8	Dr.ShaulHameedAboobkar	MBBS,MD	Senior resident	-
9	Dr.ShrikanthHiremath	MBBS,MD	Senior resident	-
10	DrAmithash MP	MBBS	Junior Resident	-
11	DrNehaMagaji	MBBS	Junior Resident	-
12	DrVyshak US	MBBS	Junior Resident	-
13	DrDalipartyVasudev Malik	MBBS	Junior Resident	-

Category	Sanctioned	Filled
Teaching staff	03	04
Senior Resident	03	02
Junior Resident	04	04

**2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,**

Please refer Annexure No. HS 1 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 MCI and the department strictly complies with the laid down requirement.

**4. Trends in the success and dropout rates of students during the past two years:**

1st batch Postgraduate course started in 2011 in our department

MD PULMONARY MEDICINE		
YEAR	Success in %	Dropout %
2014	100%	0

**5. Learning resources of the departments - library, computers, laboratories and other resources.**

The department has well-equipped library with over 108 books and 05 Journals, Computers with internet facility is available to the Postgraduate students in the workplace.

**6. Modern teaching methods practiced and use of ICT in teaching – learning**

The department extensively uses AV aids like Power Point and multi-media for teaching undergraduate and postgraduate students. Department has a separate Bronchoscopy suite with video facilities for teaching students. In addition the facilities of the clinical skills lab are made use of as and when needed.

**7. Participation of teachers in academic and personal counselling of students**

Every batch of student is equally divided among available staff members for personal interaction and mentoring

**8. Details of faculty development programmes and teachers who have been benefited during the past one year.**

All the faculty members in the department have attended faculty development programme pertaining to teaching-learning and evaluation in the past two years.

All the faculties regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 10 such programmes.

Faculties are invited as guest speakers in their field of interest at various meets hosted by other departments of the institution and sometimes outside also.

### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG and PG students.

All of them participate in active research and some of them are associated with industry sponsored research. Faculties maintain PG log book, Undergraduate teaching, case demonstration and maintaining departmental library.

### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

Collaborative research project is underway with other departments of the institution- "Burden of Tuberculosis and the modalities of increasing the case detection rate of sputum positive Tuberculosis"

- A project proposed by DAN TB is being carried out

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

#### Ongoing:

Category	Number
Funded research projects	0
Non-funded research projects	0
Faculty research projects	2
PhD research projects	2
PG research projects	4
UG research projects	3

**Last 3 years (2010-12):**

		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		0	2	2
Completed UG research projects		0	2	0
Publications	International	5	7	5
	National	1	2	13
Books		0	0	5
Chapters in books		0	0	0
Conference presentations	International	0	1	1
	National	2	2	4

**Research and details of the ongoing projects**

Title	Name of Guide/Co Guide / Investigators
Clinical profile and prescribing patterns among ARDS patients admitted in a tertiary care hospital	Dr. Rahul Magazine, Dr. BharatiChogtu, Dr. Ramkumar, Dr. Manthappa
A comparative study of pre and post treatment ECG and Echo findings in acute exacerbation of COPD patients and its correlation with severity of disease	Dr. Aswini Kumar Mohapatra, Dr. Tom Devasia, Dr. Manu Mohan K
“Comparison of the effects of Oral Montelukast with Oral Zileuton in acute asthma: A prospective, randomized, double blinded study”	Dr. Rahul Magazine,
“A Prospective Observational Study of Serial Bode Indices to Assess Impact on Exacerbations and to Monitor Disease Progression In Patients of COPD”	Dr. AswinikumarMohapatra Dr. Manu MohanK
“Air splinting maneuver during flexible fiber optic bronchoscopy-a cross sectional study	Dr. Rahul Magazine
The study of genetic & Epigenetic variations in asthma	Dr. Aswini Kumar Mohapatra
Diabetes and Tuberculosis	Dr. Manu Mohan K
Bronchiectasis & Clinical profile	Dr. Manu Mohan K

Evaluation of structured individualized pharmacist intervention programme on economic clinical and humanistic outcome of COPD patients in a tertiary care teaching hospital	Dr. Manu Mohan K
Erectile dysfunction & marital quality of life among COPD	Dr. Manu Mohan K

### **Publications: 2012**

#### **International Indexed:**

1. Elsa Sanatombi Devi, RavindraPrabhu, Bhanumatni, LeenaSequiera, Sreemathi S Mayya, Bairy KL, Manu Mohan K:-Identification of Health Problems of patients undergoing Hemodialysis Using Self Care Deficit Theory & Application of Nursing Process Approach Care-International Journal of Nursing Education. Jan-June 2012, Vol.4, No1
2. Rahul Magazine, CharuduttSambhaji, RanjanShetty, UmeshGoneppanavar:-Kommerell's Diverticulum: An Unusual Cause of Chronic Cough:- Hindawi Publishing Corporation, Case reports in Pulmonology Volume 2012, Article ID512790, 3pages
3. Rahul Magazine, RanjanShetty, UmeshGoneppanavar, Aswini K. Mohapatra:- Idiopathic Clubbing Confined to Lower Limb Digits and Idiopathic Pulmonary Fibrosis: An Unusual Association.Hindawi Publishing Corporation, Case reports in Pulmonology Volume 2012, Article ID684285, 3pages\
4. Rahul Magazine: Air-Splinting Maneuver During Flexible Fiber-optic Bronchoscopy: Chest/142/3/September 2012.
5. Mohan K Manu, Aswini Kumar Mohapatra& Rahul Magazine:- Right Diaphragmatic Hernia in an Elderly Man- Indian Chest Dis. Allied Sci. 2012; 54:173-174

#### **National Non-Indexed:**

1. Rahul Magazine, BharatiChogtu, Muthukumaran L, NimishaSrivastava, Saisree Reddy A J:-Knowledge, attitude and practice of nurses regarding HIV/Aids in a tertiary care hospital:- Pulmon, vol. 14, Issue 1, Jan-Apr 2012

### **Publications: 2013**

#### **International Indexed:**

1. Naha K, Shetty RK, Vivek G, Magazine R. An unusual and deadly cause for massive haemoptysis.BMJ Case Rep 2013: 13
2. 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 71
3. Goneppanavar Umesh and Rahul Magazine. Agonal gasps of cardiac arrest victim can aid in confirming tracheal intubation using Umesh's intubation detector. *Acta Anaesthesiologica Taiwanica* 2013; 51:133-134
  4. Rahul Magazine, Bharti Chogtu, Shobitha Rao, Kiran Chawla. Bacterial isolates from the bronchoalveolar lavage fluid of patients with pneumonia not responding to initial antimicrobial therapy. *Sahel Medical Journal* 2013; 16 (3):102-106
  5. Hameed Aboobackar Shahul, Mohan K Manu, Aswini Kumar Mohapatra, Charudutt Jayant Sambhaji. *Bronchial atresia: a rare presentation as air fluid level on chest roentgenogram*. BMJ case rep 2014 doi: 10.1136/bcr-2013-202767
  6. Shahul HA, Manu MK, Mohapatra AK, Magazine R. Ortner's syndrome. *BMJ Case Rep*
  7. Tanuj Kanchan. Deepak Madi, B. Junnikrishnan, Nithin Kumar, Ramesh Holla, Preetham R Acharya, "Dettopoisoining-":- International Journal of AJ Institute of Medical Sciences 2 (2013) 77-81 Val.2 No. 1, May 2013

#### National Indexed:

1. Manu Mohan K, Aswini K Mohapatra, Rahul Magazine. Extrapulmonary multidrug resistant tuberculosis presenting as chest wall abscess -A rare case report. *Indian J Tuberc* 2013; 60(2); 121-123.
2. Rahul Magazine, Shobitha Rao. Utility of flexible fibre optic bronchoscopy: Experience from a tertiary care teaching hospital. *Journal of Dr. NTR University of Health Sciences* 2013;2(4): 249-254.

#### Publications: 2014

##### International Indexed

1. Chama, Sreecharan and Singh, Ankita and Cheruku, Avinash Reddy and Shekar, Mannem Chandra and Manu, Mohan K and Mohapatra, Aswini Kumar and Unnikrishnan, MK and Suhaj, A (2014) 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*, 4 (3). pp. 1047-1055.
2. Aboobackar, Shahul Hameed and Manu, Mohan K and Mohapatra, Aswini Kumar and Magazine, Rahul (2014) *Ortner's syndrome*. *BMJ Case Report*. pp. 1-3.
3. Devasia, T and Nandra, A and Kareem, H and Manu, MK (2014) Acute Effect of Mobile Phone on Cardiac Electrical Activity in Healthy Volunteers. *International Journal of Clinical Medicine*, 5. pp. 167-170.

4. Magazine, Rahul and Shahul, HameedAboobackar and Monappa, Vidya and Chogtu, Bharti (2014) BALToma Masquerading as Pulmonary Tuberculosis. BMJ Case Reports. pp. 1-4.
5. Shahul, HameedAboobackar and Manu, Mohan K and Mohapatra, Aswini Kumar and Sambhaji, CharuduttJayant (2014) Bronchial Atresia: A Rare Presentation as Air Fluid level on Chest Roentgenogram. BMJ Case Report. pp. 1-2
6. Shahul, HameedAboobackar and Manu, Mohan K and Mohapatra, Aswini Kumar and Chawla, Kiran (2014) Chryseobacteriumindologenes pneumonia in a patient with non-Hodgkin's lymphoma. BMJ Case Reports. pp. 1-3.
7. Manu, Mohan K and Koteswara, Prakashini and Mohapatra, Aswini Kumar and Kudva, Ranjini (2014) Image guided biopsy of the pleura: a useful diagnostic tool even when fluid is minimal. BMJ Case Reports. pp. 1-3.
8. Suhaj, A and Unnikrishnan, MK and Manu, Mohan K and Rao, Mallikarjuna C (2014) Re: An early Rehabilitation Intervention to Enhance Recovery During Hospital Admission for an Exacerbation of Chronic Respiratory Disease: Randomised Controlled Trial. BMJ. pp. 1-3
9. Shahul, HameedAboobackar and Manu, Mohan K and Mohapatra, Aswini Kumar and Mathew, Mary (2014) Rifampicin-induced lichenoid eruptions. BMJ Case Reports. pp. 1-2.
10. Magazine, Rahul and Chogtu, Bharti and Manu, Mohan K and Shahul, HameedAboobackar (2014) Tuberculous Lymphadenitis and Borderline Leprosy in a Patient with Isolated Unconjugated Hyperbilirubinaemia. BMJ Case Reports. pp. 1-2.
11. Madan, Sumanth and Kumari, Meena K and Choudhry, AfreenArshad and Kamath, Suhasini and Kamath, Asha and Amberkar, Mohan babu V and Rao, Pragna and Magazine, Rahul and Ramanathan, Rudra (2014) The effect of hyperlipidemic state on urine expression of rifampicin and its association with pulmonary tuberculosis-a prospective pilot study. International Journal of Pharmacy and Pharmaceutical Sciences, 6 (7). pp. 99-102. ISSN 0975-1491
12. Shahul, HameedAboobackar and Manu, Mohan K and Mohapatra, Aswini Kumar (2014) A rare case of coexisting left pulmonary hypoplasia and right tracheal bronchus. BMJ Case reports. pp. 1-2.
13. Magazine, Rahul and Chogtu, Bharti and Mohan, DhanyaSoodana and Nair, Shruti and Trushna, Tanwi (2014) Use of Beta Blockers in Patients with Reactive Airway Disease and Concomitant Hypertension or Ischemic Heart Disease. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 5 (1). pp. 1065-1073. ISSN 0975 - 8585



**National Indexed:**

1. Adiga, Shalini and Chogtu, Bharti and Mohapatra, Aswini Kumar and Magazine, Rahul (2014) Comparing the efficacy and influence on the quality of life of three classes of drugs used in bronchial asthma - A prospective study. *Journal of Clinical and Diagnostic Research*, 8 (9). HC13-HC15. ISSN 0973-709X
2. Parida, Amrita and Bairy, KL and Chogtu, Bharti and Magazine, Rahul and Vidyasagar, Sudha (2014) Comparison of directly observed treatment short course(DOTS) with self-Administered therapy in pulmonary tuberculosis in Udupi District of South India. *Journal of Clinical and Diagnostic Research*, 8 (8). pp. 29-31. ISSN 0973-709X
3. Rao, Shobitha and Mohan, Manu K and Srilatha, PS and Mohapatra, Aswini Kumar (2014) Congenital cystic adenomatoid malformation of the left lung presenting in an adult. *Indian Journal of Chest Disease and Allied Science*, 56 (3). pp. 171-172.
4. Manu, Mohan K and Johnson, Saumy and Alex, Johnson (2014) Multidisciplinary Approach to Pulmonary Rehabilitation - An Overview. *Indian Journal of Respiratory Care*. pp. 388-395.
5. Magazine, Rahul and Chogtu, Bharti (2014) Stevens Johnson syndrome and neurotoxic effects of metronidazole. *Indian Journal of Pharmacology*, 46 (5). p. 565. ISSN 0253-7613

**12. Placement record of the past students and the contribution of the department to aid student placements**

Nil

**13. Plan of action of the department for the next five years**

The road map for future plan is to project the department to the highest level as far as teaching and research are concerned and to train the next generation of leaders in biomedical science and clinical care. Our strategic plan is to make research and publications as a mandatory protocol for every faculty members and post graduate students.

We would like to see to it that more research activities are published in peer journals from the department in future to prepare physicians for careers in academic medicine through exposure and participation in high-quality research, both in the basic sciences and clinical outcomes research. The goal of our training program is to produce skilled pulmonary and critical care clinicians, teachers, and investigators.

As far as the patient care and clinical skills are considered the prime focus for the department would be to impart highest level of proficiency in the field of Interventional Pulmonology and Critical care medicine in future times to come by providing a scholarly

environment conducive to the development of academic pulmonary and critical care physicians. We are focused on the advancement of clinical skills, scientific knowledge, and ethical standards of trainees to prepare them for a career as a clinician, educator, or scientist.

Focus in clinical care includes active participation in cardiopulmonary exercise testing, interventional bronchoscopy, point-of-care ultrasound, and Specialized clinic-based exposures including cystic fibrosis, severe asthma, pulmonary hypertension, interstitial lung disease, and pulmonary rehabilitation.

Research goals will be providing training opportunities in epigenetics, molecular biology of lung injury, immunology and endothelial mechanisms in obesity and sleep disorder to train exceptional clinical pulmonologists and intensivists for a career in academic medicine as physician-scientists or clinician-educators.

**1. Name of the Department: DERMATOLOGY – KMC – Manipal.**

**2. Faculty profile - adequacy and competency of faculty**

There are eight teaching faculty consisting of 2 professors, 1 Additional Professor, 1 Associate Professor and 1 Assistant Professor which meets the requirements for MBBS and also for post graduate training as per the regulatory body requirements. All faculty are competent.

**Faculty list**

S. No.	Name	Qualification	Designation	Teaching experience in years
1	Dr. Sathish Pai B	MBBS, MD,DVD	Professor & Head	19
2	Dr. Shrutakirti D Sheno	MBBS, MD,DVD	Professor	25
3	Dr. Raghavendra Rao	MBBS, MD, DNB	Addl . Prof.	15
4	Dr. Smitha Prabhu	MBBS, MD, DVD	Assoc. Prof.	11
5	Dr. Sudhir Nayak U.K.	MBBS, MD,DDVL	Asst. Prof.	5
6	Dr. Shricharith Shetty	MBBS, MD, DNB	Senior Resident	2
7	Dr. Ivy Sandhu	MBBS, MD	Senior Resident	1
8	Dr. Namitha Chathra	MBBS, MD	Senior Resident	<01

Category	Sanctioned	Filled
Teaching staff	06	05
Senior Resident	03	03
Junior Resident	05 per year	05 per year

**3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,**

Please refer Annexure No. HS 1 for details

**4. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.**

The various courses are governed by regulatory bodies like MCI and the department strictly complies with the laid down requirement.

However certain changes have been introduced in UG and PG Training.

- a) For UGs – Maintenance of log book for clinical postings  
Problem based learning (PBL) classes  
End posting objective tests are also conducted.
- b) For PGs – Monthly evaluation in the form of either written test or viva-voce is conducted.

- c) As per University rules, all PGs (MD/DDVL students) are given topics for dissertation/original study and have been instructed to present case report /original study in the conferences and also prepare a scientific paper for publication.
- d) Change in format of PG theory examination papers –  
 MD/DDVL- 2 Essay questions (15 marks each)  
 10 short answers (7 marks each)

#### 5. Trends in the success and dropout rates of students during the past two years.

Course	Pass Percentage			Dropout Rate		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
MD (DVL)	100	100	100	0	0	0
DDVL (DVL)	100	100	100	0	0	0

#### 6. Learning resources of the departments - library, computers, laboratories and other resources.

The department has an air conditioned Seminar room with AV aids /library with 199 reference books in the subject for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled, In addition department also has 12 computers and 2 printers (one printer with scanner and copier.)

There is a well-equipped laboratory attached to the department with facilities for investigations and treatment. Various investigations includes KOH mount, dark ground microscopy, various staining procedures for infections, patch testing, intradermal testing and Immunofluorescence test. Treatment modality consists of phototherapy machines like UVA, NBUVB (both whole body and hand and foot units) and Targeted phototherapy units for treating patients with various skin disorders. There is facility for bath PUVA treatment.

#### 7. Modern teaching methods practiced and use of ICT in teaching – learning.

The department extensively uses audio visual aids like Power Point and multi-media for teaching. In addition the facilities of the laboratory are made use of as and when needed.

### 8. Participation of teachers in academic and personal counseling of students.

All teachers are engaged in actively teaching both undergraduates & postgraduates. Every attempt is made to make the topic lucid and interesting. Students are encouraged to clarify their doubts both during the lectures or later.

The post graduate students carry our regular clinical work under the supervision of a faculty member. The post graduates undertake their prescribed dissertation work under guidance of their allotted guide. Faculty also encourages UG students to undertake ICMR-STs and 2 such project has been completed. Post graduates are also encouraged to do minor projects and present papers/posters during national and international conferences. They are also guided by faculty to publish quality papers in national and international indexed journals.

### 9. Details of faculty development programmes and teachers who have been benefited during the past two years.

Three faculties each participated in each of the following faculty development programmes: Pedagogic & Personal effectiveness Training workshop, awareness Workshop on 'Wiley Online Library, Author Workshop on Indexing and Abstracting Databases in Health Sciences'

Two faculties each participated in each of the following faculty development programmes: MCI recognized Medical Technology workshop, Academic Leadership workshop, orientation on Environmental Management System and Half –day workshop on BMJ case report

One faculty participated in each of the following faculty development programmes : workshop on filing patents, Research paper presentation , workshop on MS Windows 2013, Onsite Training Programme – By OVID SP, the Microscopy course in Dermatopathology, workshop on Phd guidance and STI/RTI Training programme at KSAPS

One faculty Underwent 6 months fellowship in Guy's and St. Thomas Hospital, London, UK from 1st Nov 2011 to 30<sup>th</sup> April 2012 under the Commonwealth academic fellowship by Academy of Commonwealth Universities (ACU) British Council 2011

All faculty regularly attend various scientific programmes like conferences, workshops, symposias and CMEs.

### 10. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research activities. Faculties have developed PG log book. The department assists the faculty and the students of other departments and institutions to carry out research & dissertation projects. The department is also exploring avenues

for research collaborations with other constituent institutions of the university.

### 11. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.

Dept. of Dermatology has collaborated with Dept. of Psychiatry and Dept. of Clinical Psychology to start a “Psychodermatology Liaison Clinic” which functions on a weekly basis that caters to patients with psychosomatic skin disorders.

Department in collaboration with District Leprosy Control Program is actively involved in Leprosy management by providing free drugs to patients.

Interdepartmental research work - The faculty have jointly done minor projects and published scientific articles in various international /national indexed journals.

One PhD work is going on in collaboration with the Dept of Pharmacology.

Regular Guest lectures from teaching faculty of other departments are held periodically for post graduates.

Dermatopathology slide discussion with Pathologist once in twomonths

### 12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Priority areas:Psychodermatology, Phototherapy, Immunodermatology and contact dermatitis.

A snapshot of our research activities and publications in given in the table below.

#### On going:

Category	Number
Funded research projects	0
Non-funded research projects	1
PhD research projects	1
PG research projects	7
UG research projects	0

#### Last 3 yrs (2012 – 2014):

		2012	2013	2014
Completed funded research projects		0	2	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		3	1	2
Completed UG research projects		0	0	0
Publications	International	1	12	11
	National	7	14	6
Books		0	0	0

Chapters in books		3	6	5
Conference presentation	International	0	7	3
	National	4	10	6

**Detailed outline of projects is given below:**

**Our on- going research projects are:NIL**

**Our ongoing non-funded research projects are:**

SL.No	Title	Faculty Involved
1	Prevalence and co-morbidities of Body Dysmorphic Disease in Dermatology practice in a tertiary care hospital in South India: an open labelled prospective five year study	Dr. SmithaPrabhu

**Our ongoing PhD research projects are:**

SL.No	Title	Name of student	Name of the co guide
1	Cost effectiveness analysis of psoriasis regimens	Ms. Swapna S	Dr. SathishPai

**Our ongoing PG researchprojects:**

Sl.No	Title	Name of the student	Guide
1	Quality of Life of Patients with Chronic Dermatoses	Dr.DeepikaAmala A	Dr. Shrutakirti D Sheno
2	Occupational dermatoses among construction workers- an observational study	Dr. Nafina Jasmine	Dr. SathishPai
3	Profile of patients with IgA vasculitis in tertiary care hospital	Dr. Shafia Nissar Kakroo	Dr. RaghavendraRao
4	Psychodermatology liaison clinic- working pattern, clinical profile of patients and treatment outcome	Dr. NupurGoyal	Dr .Shrutakirti D Sheno
5	Photopatch testing in patients with photodermatitis	Dr. Teena Mary Joseph	Dr. SathishPai
6	Microneedling in Atrophic acne scars	Dr. Rupika Singh	Dr. Shrutakirti D Sheno
7	A study of oral epithelium as a substrate for indirect immunofluorescence in pemphigus	Dr. Anuradha Jindal	Dr. RaghavendraRao



**Our completed funded research projects:****Year 2013**

Sl. No	Title	Principle Investigator	Funding Agency	Total amount received
1	A randomized double blind clinical trial for evaluation and comparison of efficacy and in use tolerance of 3 anti-acne test products.	Dr. SathishPai B	Apex Pharma	Rs. 10,00,000/-
2	Prevalance of smear positive Hansen's cases – A three year retrospective analysis in a tertiary care hospital	Dr. SathishPai B	ICMR	Rs. 10,000/-

**Our completed PG research projects:****Year 2012**

Sl.No.	Title	Name of the student	Guide
1	Random, double blind placebo control study to assess the efficacy of bath PUVA & topical corticosteroid versus bath PUVA alone in the treatment of psoriasis	Dr. Gaganjot Kaur	Dr. SathishPai
2	Aeroallergen patch testing in patients with endogenous and exogenous dermatitis.	Dr. Nelee Bisen	Dr. Shrutakirti D Shenoi
3	Efficacy and safety of Erbium – YAG fractional resurfacing laser for treatment of atrophic acne scars	Dr. Nirmal B	Dr. SathishPai B, Dr. Sripathi H

**Year 2013**

Sl.No	Title	Name of the student	Guide
1	Clinical profile of Parthenium dermatitis	Dr. Shaily Shetty	Dr. Shrutakirti D Shenoi

**Year 2014**

Sl.No.	Title	Name of the student	Guide
1	Clinical Profile of an acute erythematous exanthematous rash	Dr. VandiniKabra	Dr Shrutakirti D Shenoi
2	Clinical Profile of leg ulcers	Dr. Avina Jain	Dr.C.Balachandra n

**The details of publications:****Year 2012****National**

1. Nayak SUK, Shenoi SD, Prabhu S. Laptop induced induced erythema abigne. Ind J Dermatol 2012;57:131-2
2. Rao R, Gupta A, Yunis F, Sripathi H, Balachndran C. Coexistence of psoriasis and bullous pemphigoid. Indian Dermatol Online Journal 2012;3(2):119-121
3. Rao C, Rao R.A cross-sectional study of dermatological problems among differently-abled children.Indian J Dermatol. 2012 Jan;57(1):35-7.
4. RaghavendraRao, Jemima Mellirio, Balbir S Bhogal, Richard Groves Immunofluorescence antigen Mapping for hereditary epidermolysisbullosaIndian J Dermal VenereolLeprol2012 -78(6):692-697
5. NayakSU,ShenoiSD,PrabhuS,Pai BS. Synopsis of holistic and intregrative dermatology 2011: Conducted by dept. of dermatology,KMC, Manipal,December 4<sup>th</sup> 2011Indian J Dermal VenereolLeprol2012;78(5):667-70
6. Prabhu S, Shenoi SD. Quality of life issues in pediatric psoriasis. Ind J PedDermatol 2012;13:17-20 .
7. SudhirNayak, SD Shenoi. "Sines of Dermatology". Indian J Dermatol, Venereol, and Leprol 2012:78(4)

**International**

1. SudhirNayak U.K., Shrutakirthi D Shenoi, SathishPai B, SmithaPrabhu M. PerifollicularRepigmentation in bullous pemphigoid:a valuable clue to diagnosis. Journal of Pakistan Association of Dermatologists 2012;22(3):287-292

**Year 2013****National**

1. BalakrishnanNirmal, Sathish B. Pai, HandattuSripathi, RaghavendraRao,SmithaPrabhu, Mohan H. Kudur, Sudhir U. K. Nayak. Efficacy and safety of Erbium-doped Yttrium Aluminium Garnet fractional resurfacing laser for treatment of facial acne scars. Indian J Dermatol, Venereol, and Leprol. 2013;79(2): 193-8

2. Shenoi SD, Prabhu S, Nirmal B, Petrolwala .S Our experience in a psychodermatology Liaison clinic at Manipal, India. Indian J Dermatol 2013;58:53-5
3. Nayak S, Shenoi S, Synopsis of training programme for dermatologist in non pharmacological (Psychological) interventions in dermatology. Indian J Dermal VenereolLeprol 2013;79:275-8
4. Nayak SU, Shenoi SD, Pai BS, Prabhu S. Henoch-Shonleinpurpura: Yet another disease manifesting the Koebner phenomenon. Ind J DermatolVenereolLeprol 2013;79:135
5. Rao R, Dasari K, Shenoi SD, Balachandran C, Dinesh P. Monitoring the disease activity in pemphigus by direct immunofluorescence of plucked hair: A pilot study. Indian J Dermatol 2013;58:164-165
6. SudhirNayak U.K, Shrutakirthi D Shenoi. Gold Ring induced Depigmentation.Indian J. Dermatol 2013;58(3):246
7. SudhirNayak U.K, Shrutakirthi D Shenoi, GaganKaur, NeleeBisen, Anoop Purkayastha, Joseph Chalissery.Dermatologic Evaluation of Street Sanitation Workers. Indian J. Dermatol 2013;58(3):246
8. BalakrishnanNirmal, Sathish B. Pai, HandattuSripathi. A simple instrument designed to provide consistent digital facial images in Dermatology. Indian J. Dermatol 2013;58(3)-194-196
9. BalakrishnanNirmal, Shrutakirthi D Shenoi, ShwetaRai, Sreejayan K, Savitha S. 'Look beyond Skin' psychogenic excoriation – A series of five cases. Indian J. Dermatol 2013;58(3):246-249
10. Avina Jain, SathishPai B, S.D. Shenoi.Exogenousochronosis.Indian J.DermatolVenereolLeprol 2013;79:522-3
11. SudhirNayak U.K, Shrutakirthi D Shenoi, Smitha M Prabhu. Erythema AnnulareCentrifugum: Deep variant with Vasculitis like Histopathology.Indian J Dermatol 2013; 58(4):329
12. ShakthisriKandaswamy, NahidAkhtar, Surya Ravindran, SmithaPrabhu, S.D. Shenoi. Phototherapy in Vitiligo: Assessing the compliance, Response and patient's perception about disease and treatment. Indian J Dermatol 2013;58:325-329
13. SmithaPrabhu, SudhiraNayak U.K, Shrutakirthi D Shenoi,SathishPai B. Synopsis of Diet in Dermatology: A one day CME conducted by Dept. of Dermatology, Kasturba Medical College, Manipal on March 3, 2013. Indian Dermatol Online J 2013;4:358-64.
14. SathishPai B, KanthilathaPai. Livedoidvasculopathy and mononeuritis multiplex, with a fulminant hepatic failure which was caused by herpes simplex hepatitis : a case report. Journal of clinical and diagnostic research 2013;7:921-923

### **International**

1. Shrutakirthi Damodar Shenoi, Smitha Prabhu. Role of cultural factors in the biopsychosocial model of psychosomatic skin diseases: an Indian perspective, *Clinics in Dermatology*; 2013; 31, 62–65
2. Sudhir Nayak U.K., Shrutakirthi D Shenoi. Two varied presentations of cold urticaria. *JPAD* 2013; 23(1): 106-107
3. Raghavendra Rao, Balbir Bhogal and Richard Groves. Antigen identification using skin deficient in basement membrane protein : a novel tool for the diagnosis of subepidermal immunobullous disease . *Clinical and experimental Dermatology* 2013; 38: 289-94
4. Anuj Taneja, Sudhir Nayak U.K., S.D. Shenoi. Clinical and Epidemiological study of *Paederus dermatitis* in Manipal, India. *J Pak Asso Dermatol* 2013; 23(2): 133-138
5. Sudhir Nayak U.K., Sripathi H. Short communication papular eruption secondary to prolonged application of Tetracaine – lidocaine cream. *J Pak Asso of Dermatol* 2013; 23(2): 245-246
6. Raghavendra Rao, Gagan Jot Kaur, Anuradha CK Rao, Laxmi Rao, Sripathi H. Borderline leprosy masquerading as cheilitis granulomatosa : A case report. *Leprosy review* 2013; 84: 95-99.
7. Kanthilatha Pai, Poornima Baliga, Ramachandra L, Sathish Pai. Multiple Plexiform xanthomatous tumour: A rare occurrence in a young girl. *J Interdiscipl Histopathol*. 2013: 1-4
8. Poornima B, Kanthilatha Pai, Sathish Pai. A rare case of familial multiple trichoepithelioma. *The internet journal of Dermatology* 2013: vol 11: No. 1
9. Kanthilatha Pai, Sathish Pai. Zosteriform lichen planus: case report of a rare variant of lichen planus . *Our Dermatology online* 2013; 4(2) : 183-184
10. Poornima B, Kanthilatha Pai, Sathish Pai. Cutaneous tuberculosis masquerading as pyodermagangrenosum. *The internet journal of Dermatology* 2013; vol 11: No 1
11. Kanthilatha Pai, Sathish Pai. Localised involutinal lipomatosis: A case report. *Our Dermatology online* 2013; 4(3) : 356-357
12. Sohail Ali Baig, C. Balachandran, Sudhir Nayak UK. Comparative evaluation of autologous serum skin test and autologous plasma skin test in chronic urticarial. *J Pak Asso Dermatol*. 2013; 23(4); 378-383.

### **Year 2014**

#### **National**

1. Sudhir Nayak UK, Handattu Sripathi. Pigmentation resembling cross-section of a mitochondrion. *Indian J Dermatol Venereol Leprol* 2014; 80 (1): 70-71

2. Shenoi S.D, PrabhuSmitha, BalakrishnanNirmal, NayakSudhir U.K, PaiSathish B. Hansen's Disease associated with erythromelalgia mimicking Lupus erythematosus. Indian Dermatology online Journal 2014;5:59-62
3. BisenNelee, Shenoi S.D.,C. Balachandran. Aeroallergen patch testing in patients of suspected contact Dermatitis. Ind. J. Dermatology.2014;59(3):252-256.
4. Pai K, Shetty S, Pamapriya J, Pai S, Rao L. Acantholytic variant of bowen's disease with micro invasive squamous cell carcinoma – A case report of a unique variant. Ind. J. Dermatol. 2014;59(6):635
5. Shenoi SD, Prabhu S. Photochemotherapy (PUVA) in Psoriasis and Vitiligo. Indian J DermatolVenereolLeprol 2014;80:497-504
6. S. Shetty, Geetha V, R. Rao, SathishPai. Verrucous Hemangioma : Importance of a deeper biopsy. Ind. J. Dermatopathology& diagnostic dermatology. 2014; 1(2):99-100

### International

1. VandiniKabra, KanthilathaPai, Sathish BPai, Shrutakirthi D Shenoi, RaghavendraRao. Pemphigus vulgaris masquerading as subcornealpustular dermatoses – a case report. Our Dermatology Online. 2014;5(2): 157 – 159.
2. Tejasvi B, KanthilathaPai, RaghavendraRao. Painful nodule on the leg. Clinical and Experimental Dermatology.2014;39:542-543.
3. InamuriRaviteja, NayakSudhir, Shenoi S.D. Open comparative study of efficacy and safety of ketoconazole soap and oral ketoconazole in Tinea versicolor. J Pak Asso Dermatol..2014;24(1): 63-67
4. Rao R, Sarda A, Khanna R, C. Balachandran. Coexistence of frontal fibrosing alopecia with lichen planus pigmentosus. IntJ Dermatol.2014;53:622-624.
5. Shetty S, MonappaVidya, Pai K, Rao R, PaiS. Congenital self Healing Reticulohistocytosis : A case report. Our Dermatology Online. 2014;5(3):264-266
6. Rao R, Reddy Tejasvi, Pai K. Purplish nodule on the arm. Dermatology online journal.2014;2(7): 18
7. Pai K, Pai S, Rao R, Shetty S. Photodistributed acute febrile neutrophilic dermatosis: A case report. Our Dermatology online.2014;5(4):416-418.
8. AnanthaNaikNagappa, SathishPai, Swapna S, Rajesh Balkrishnan. Assessment of humanistic outcomes in psoriasis related diseases. World Journal of Pharmacy & Pharmaceutical Sciences 2014;3:1572-1581
9. KanthilathaPai, SathishPai. Angiocentric lymphomatoid papulosis in a child: uncommon benign clinical entity with malignant histology. Our Dermatol Online. 2015;6(1):62-64

10. Swathi Sharma, RaghavendraRao. Exogenous Ochronosis masquerading refractory melisma. Our dermatol online.2014;5(4): 398-400.
11. SathishPai, KanthilathaPai. Disseminated Rhinosporidiosis with cutaneous involvement. Eypitian dermatology online Journal.2014;10 (2)

**Details of Chapters in books published by our faculty are given below:**

**Year 2012**

Sl.No	Title	Name of the book	Name of the faculty	Publisher
1	Endemic Treponematoses	Sexually transmitted infections	Dr.C. Balachandran, Dr. SathishPai B	Elsevier, New Delhi
2	Photosensitive disorders	IADVL's Concise textbook of dermatology.	Dr. SathishPai B	Wiley – Blackwell, New Delhi
3	Eczema	IADVL's Concise textbook of dermatology.	SmithaPrabhu	Wiley – Blackwell, New Delhi

**Year 2013**

Sl.No.	Title	Name of the book	Name of the faculty	Publisher
1	Vitiligo in India – Problems and Perspectives	Vitiligo – What's New, What's True	Dr. SathishPai B	WHA/VR Foundation
2	Suction blister grafting	Dermatosurgery made easy	Dr Shrutakirti D Shenoi, Dr. RaghavendraRao	Jaypee Brothers Medical Publishers(P) Ltd
3	Punch grafting in vitiligo	Dermatosurgery made easy	Dr Shrutakirti D Shenoi, Dr. RaghavendraRao	Jaypee Brothers Medical Publishers(P) Ltd
4	Lateral matrix phenolization for ingrowing toe nail	Dermatosurgery made easy	Dr Shrutakirti D Shenoi, Dr. RaghavendraRao	Jaypee Brothers Medical Publishers(P) Ltd

**Year 2014**

Sl.No.	Title	Name of the book	Name of the faculty	Publisher
1	Sexually transmitted infections	Comprehensive Text book of Sexual Medicine	Balachandran C Sathish Pai B,	Jaypee Brothers Medical Publishers(P) Ltd
2	Contact dermatitis to ketoconazole shampoo in Interesting cases in dermatology	Interesting cases in Dermatology	Sudhir Nayak U.K. C. Balachandran	IJCP
3	Ultraviolet – induced skin damage and its prevention with sunscreen	Basic science for Modern Cosmetic Dermatology	Sathish Pai B	Jaypee Brothers Medical Publishers(P) Ltd
4	Psychosomatic hair disorders	Hair & Hair disorders diagnosis & management	Smitha Prabhu, Sudhir Nayak UK, Shrutakirthis D Shenoi	Jaypee Brothers Medical Publishers(P) Ltd
5	Quality of Life in pigmentary disorders	Pigmentary disorders A comprehensive compendium	SudhirNayak U.K., SmithaPrabhu, Shrutakirthis D Shenoi	Jaypee Brothers Medical Publishers(P) Ltd

**The details of our conference presentations have been listed below:**

**Year 2012****International:**

Nil

**National:**

Sl.No.	Title of the presentation	Name of the faculty	Details of conference
1	Vagaries of Hansen's disease	Dr. SmithaPrabhu	Dermazone South 2012 at Wayanad, Kerala on 21-23 <sup>rd</sup> September, 2012



2	A perplexing case of persistent pruritic plaques in the pubic area	Dr. SmithaPrabhu	Dermacon 2012 40 <sup>th</sup> National Conference of IADV L held at Jaipur, 9-12 Feb, 2012
3	Comparative Analysis of ISS from two different companies	Dr. SudhirNayak U.K	Dermacon 2012 40 <sup>th</sup> National Conference of IADV L held at Jaipur, 9-12 Feb, 2012
4	Road sweepers – A dermatological Survey	Dr. SudhirNayak U.K	Dermacon 2012 40 <sup>th</sup> National Conference of IADV L held at Jaipur, 9-12 Feb, 2012

### Year 2013

#### International:

Sl.No.	Title of the presentation	Name of the faculty	Details of conference
1	Clinical profile of autoimmune Blistering disorders in childhood – A study of 5 years (2008-2012)	Dr .Shrutakirti D Shenoi	Autoimmunity Congress of Asia on November 20-22, 2013 at Hongkong
2	Gynaecological cancers – cutaneous metastases and its various presentations	Dr.SathishPai B	2nd IGCS Regional meeting on Gynaecological conference at Bali on April 11-13 2013
3	Artificial light sources for phototherapy	Dr.SathishPai B	International Congress of Dermatology at Delhi between 3rd to 7th December, 2013
4	Over view of Immunofluorescence technique in immunobullous disease	Dr. RaghavendraRao	International workshop on Immunobullous disease at Manipal on August 3rd & 4th , 2013
5	Reason for restarting MDT in leprosy patients in a tertiary care hospital	Dr. RaghavendraRao	XI IEA SEA regional meeting at Pokkhara, Nepal between Sept. 26-29, 2013
6	A clinicopathological study of primary localized cutaneous amyloidosis	Dr.ShricharithShetty	XI International Congress of Dermatology at Delhi from 5-7 December,

			2013
7	Congenital self healing reticuloistocytosis – A diagnostic challenge	Dr. Shricharith Shetty	XI International Congress of Dermatology at Delhi from 5-7 December, 2013

**National:**

Sl. No.	Title of the presentation	Name of the faculty	Details of conference
1	Role of current investigations in diagnosis, treatment and Monitoring in autoimmune bullous disorder	Dr. Shrutakirthi. D. Shenoi	DERMACON 2013, IADVL National conference held at Ahmedabad on Jan 25-27, 2013.
2	Sherlock holmes at work-clinical scanries in CD	Dr. Shrutakirthi. D. Shenoi	National workshop and symposium on contact dermatitis and photodermatology at FMMC, Mangalore on 14th Sept. 2013
3	'How I manage Trichotillomania	Dr. Shrutakirthi. D. Shenoi	Annual conference of India Society for Paediatric dermatology at Cochin on 20-22 Sept. 2013
4	Bath PUVA in psoriasis – a two year retrospective study	Dr. Sathish Pai B	DERMACON 2013, IADVL National conference held at Ahmedabad on Jan 25-27, 2013
5	Patch testing, atopy patch testing, photo patch testing	Dr. Sathish Pai B	National workshop and symposium on contact dermatitis and photodermatology at FMMC, Mangalore on 14th Sept. 2013
6	A novel antigen identification technique in the diagnosis of	Dr. Raghavendra Rao	DERMACON 2013, IADVL National

	sub epidermal immunobullous disease		conference held at Ahmedabad on Jan 25-27, 2013
7	Pathomechanism of Contact Dermatitis	Dr.SmithaPrabhu	National workshop and symposium on contact dermatitis and photodermatology at FMCC, Mangalore on 14th Sept. 2013
8	A two year study of multiple positive patch tests in contact dermatitis	Dr.SudhirNayakU.K.	DERMACON 2013, IADV National conference held at Ahmedabad on Jan 25-27, 2013
9	Appraisal of objective based questionnaire in evaluation of Dermatology students	Dr.SudhirNayakU.K.	DERMACON 2013, IADV National conference held at Ahmedabad on Jan 25-27, 2013
10	Spot Tests	Dr.SudhirNayakU.K.	National workshop and symposium on contact dermatitis and photodermatology at FMCC, Mangalore on 14th Sept. 2013

### Year 2014

#### International:

Sl.No.	Title of the presentation	Name of the faculty	Details of conference
1	Bowenoid papulosis – A case report'	Dr.Shrutakirthi.D. Sheno	18th IUSTI Asia – Pacific conference at Bangkok, Thailand from 11/11/14- 14/11/14.
2	Childhood Epidermolysis bullosa acquisita – confirmation of diagnosis by skin deficient in Type VII collagen	Dr. Raghavendra Rao	23rd EADV Congress held at Amsterdam from 8-12th October 2014
3	Genital CTCL – the masquerader	Dr.SmithaParbhu	18th IUSTI Asia – Pacific conference at

			Bangkok, Thailand from 11/11/14- 14/11/14.
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**National:**

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Basic concept of psychodermatology and psychodermatology liaison clinic	Dr.Shrutakirthi.D. Shenoi	SIG Psychodermatology workshop Psychodermacon2014 at Calicut on 30/03/2014
2	Immunodermatologic therapy	Dr.Shrutakirthi.D.Sh enoi	Indoglobal Health care summit & Expo 2014 at Hyderabad from 20-22 June, 2014
3	Diagnostic aspects of VB Diseases	Dr. RaghavendraRao	MIDCUTICON GUJARAT Ahmedabad on 14/09/2014
4	Collagen vascular disease in childhood	Dr.SmithaParbhu	Indoglobal Health care summit & Expo 2014 at Hyderabad from 20-22 June, 2014
5	Autologous platelet concentrate in chronic non healing leg ulcers: a pilot study	Dr.ShricharithShetty	ACSICON – 2014 at Wayanad from 24/04/201 – 26/04/2014
6	Hep C & LP variants – A study of 6 cases	Dr.IvySandhu	Mumbai on 19/12/14 – 23/12/14

**13. Placement record of the past students and the contribution of the department to aid****Student Placements.**

Nil

**14. Plan of action of the department for the next five years.**

- a) A full-fledged Immunofluorescence laboratory shall be set up. We expect to get samples for testing from many parts of India. One year training programme in Immunodermatology is planned for candidates who have completed diploma or MD in Dermatology.

**b) Psoriasis and phototherapy:**

Our department currently has phototherapy chambers for narrow band UVB, UVA with facilities for hand-foot treatment and bath PUVA. We plan to expand our services by installing a monochromator to investigate photo-dermatoses as well as a UVA1 machine for treatment purpose. 6 months training programme in Photodermatology shall also be introduced.

**c) Psychodermatology:**

Presently we are having a liaison clinic along with psychiatrist and clinical psychologist. A longer training programme of one year is envisaged where candidates will receive training in basic clinical aspects of psychiatry as well as skills in psychological interventions.

**d) Contact dermatitis:**

We have plan to expand the services by introducing newer tests in the diagnosis of allergic skin diseases.

## RADIO-DIAGNOSIS

### 1. Faculty profile – adequacy and competency of faculty

There are 16 teaching faculty which meets the requirements for MBBS and Dental and also for postgraduate training as per the regulatory body requirements. All faculty are competent.

#### Faculty list:

Sl.No	Name	Qualification	Designation	Teaching Experience in years
1	Dr. Rajagopal K V	MBBS, MD, FRCR	Professor & Head	20
2	Dr. Smiti S	MBBS, DNB	Professor	16
3	Dr. Prakashini K	MBBS, MD	Professor	11
4	Dr. AnuragAyachit	MBBS, MD	Assoc. Prof.	10
5	Dr. SatishBabu M	MBBS, MD	Asst. Prof.	8
6	Dr. Sandeep Kumar	MBBS, MD	Asst. Prof.	7
7	Dr. Anto J Richie	MBBS, MD	Asst. Prof.	5
8	Dr. Lakshmikanth H K	MBBS, MD	Asst. Prof.	5
9	Dr. Balasubramanyam	MBBS, MD, FRCR	Asst. Prof.	5
10	Dr. ParuthikunhanM Samir	MBBS, MD	Senior Resident	4
11	Dr. Narayanan Ramakrishna	DNB	Senior Resident	5
12	Dr.Poornima D	MBBS, MD, DNB	Senior Resident	4
13	Dr. Sanket Kotnis	MBBS, DNB	Senior Resident	3
14	Dr. Anand Abhishek	MBBS, MD	Senior Resident	3
15	Dr. Jai Vinod Shah	MBBS, MD	Senior Resident	3
16	Dr. Swarna	MBBS, DMRD	Senior Resident	7
17	Dr. Nahas K M	MBBS	Junior Resident	-
18	Dr. Supritha M	MBBS	Junior Resident	-
19	Dr. Dr.Radha Puppala	MBBS	Junior Resident	-
20	Dr. Mugil Verman R	MBBS	Junior Resident	-
21	Dr. Ranjana J	MBBS	Junior Resident	-

22	Dr. R Krishna Chaitanya	MBBS	Junior Resident	-
23	Dr. Don Paul Mathew	MBBS	Junior Resident	-
24	Dr. Santhana Kumar P	MBBS, DMRD	Junior Resident	-
25	Dr. Vikram Kumar Bajjuri	MBBS	Junior Resident	-
26	Dr. Shimona Saini	MBBS	Junior Resident	-
27	Dr. Balamurugan U	MBBS	Junior Resident	-
28	Dr. Pallod Saurabh Govind	MBBS	Junior Resident	-
29	Dr. T Uday Jayantilal	MBBS	Junior Resident	-
30	Dr.Parvathy R	MBBS	Junior Resident	-
31	Dr. Sriharsha	MBBS	Junior Resident	-
32	Dr. Shreyas Ramachandran	MBBS	Junior Resident	-
33	Dr. Archana Bala	MBBS, DMRD	Junior Resident	-
34	Dr. Tadigadapa Keerthi	MBBS	Junior Resident	-
35	Dr. Lakshmi Sindhura A	MBBS	Junior Resident	-
36	Dr. Ruchika Singh	MBBS	Junior Resident	-
37	Dr. B.Rohit Premkumar	MBBS	Junior Resident	-

Teaching	Sanctioned	Filled
-Teaching staff	7	9
Senior Residents	9	7
Junior Residents	21	21



## 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 for details

## 3. Changes made in the course or programmes during past two years and the contribution of faculty to those changes:

The Course is regulated by MCI and the department strictly complies with the laid down requirements.

The question papers format as well as syllabus for the postgraduates was revised in 2013 and the following staff contributed to the new syllabus.

### Revised pattern of question paper-

Essay questions: Two questions of 15 marks each 30 marks

Short answer questions: Ten questions of 7 marks each: 70 marks

No	System	Faculty revising syllabus
1	R.S.	Dr.Girish
2	CNS	Dr.Anurag
3	BONES	Dr.Satish Babu
4	GUT	Dr.Lakshmikant
5	RECENT ADVANCES	Dr.Balasubramanian
6	C.V.S.	Dr.Poonam
7	PHYSICS	Dr.CHarudutt Sambhaji
8	GIT	Dr.Smiti

We are also starting to conduct mock practical exams for the postgraduate students beginning from this academic year.

## 4. Trends in the success and drop out rates of students during the past two years

COURSE	PASS PERCENTAGE			DROP OUT RATE		
	2012-2013	2013-2014	2014-2015	2012-2013	2013-2014	2014-2015
MD/DMRD	100%	100%	71.43%	0%	0%	0%

## 5. Learning resources of the departments- library, computers, laboratories and resources

Apart from the central library in the campus, the department has a library within, in the centrally air-conditioned reporting rooms itself which has about 154 reference books. The library is equipped with the latest books which cater to the requirements of the PG curriculum.

All the faculty are provided with laptops from the university with laptops being optional for the post graduate students. In addition the department has 20 reporting workstations and 4 desktop computers with printers and internet connections available round the clock with online access to all the major radiology e-journals. The X-ray & CT reporting rooms also have round-the-clock WIFI facility.

There are two air-conditioned classrooms having a capacity of up to 30 students having adequate audiovisual aids. The academic sessions conducted have a batch of approximately 25 students. The PG students with assistance from the faculty have created power point presentations and e-teaching modules for all major topics.

#### **6. Modern teaching methods practiced and use of ICT in teaching-learning**

The teaching process uses a mix of various teaching-learning methodologies for ensuring the achievement of the objectives in the knowledge, psychomotor and affective domains. In accordance with our belief that didactic lectures are generally a poor method for transfer of knowledge, we have modified our teaching-learning methodology to incorporate more interactivity to our teaching sessions. In order to get more involvement from the post graduate students, the seminars are prepared and presented by the post graduate students under the moderation of a faculty member.

The problem solving skills of the post graduate students are also developed by conducting film-reading sessions on a regular basis, which emphasizes on a case-based approach to diagnosis and further management of the case. Follow-up meets are also conducted in our department on a monthly basis where important and interesting cases are discussed by the post graduates and faculty alike.

The two major teaching-learning methods used by us are:

- Seminars and interactive lectures
- Small group teaching

Apart from learning, the post-graduates are also given training on the teaching aspect by assigning each postgraduate along with a faculty member to conduct classes for the MBBS students. Interactive lectures and small group teaching are again the major teaching-learning methods used for the MBBS students.

#### **7. Participation of teachers in academic and personal counseling of students:**

All the teaching faculty take active participation in the teaching programmes for both undergraduates and post graduates. One teaching faculty is incharge of each post graduate for a given seminar presentation. The teaching faculty also conducts the film-reading sessions on a regular basis. Students are encouraged to clear their doubts during the academic session or even later. The students are free to approach any of the teaching faculty for clarifications. Students also get opportunities to get their doubts cleared during

the actual reporting of x-rays, CT and MRI scans since all the reports are first reported by the post graduate and later cross checked by the faculty while discussing with the post graduate about each case.

Each post-graduate is also allotted a senior faculty as guide of their thesis dissertations. Apart from their thesis dissertations, the students are also encouraged to undertake other voluntary studies and research projects/ posters with other faculty members. They are also encouraged and guided by the faculty to publish papers in reputed national and international journals.

#### **8. Details of faculty development programmes and teachers who have been benefitted during the past 2 years.**

All our faculty have attended the pedagogic and personal development programme conducted by the department of medical education of Manipal University. It is mandatory for any new faculty who joins to attend this workshop in the first year of joining.

Our faculty also regularly attend the CMEs, conferences and workshops being conducted in various hospitals. Apart from this, our department also conducts CMEs on a regular basis, so that all the staff are up-to-date with the latest developments in the field of radiology and imaging. Over the last two years, our department has conducted a CME on oncological imaging in July 2013 & CME on Body MRI and PET CT on 14th December 2014.

#### **9. Participation/ contribution of teachers to academic activities including teaching consultancy and research**

All the teaching faculty actively contributes to the academic activities as well as research. All seminars conducted by post graduates are moderated by a staff member. The faculty also conducts spotter quizzes for the post graduates from time to time. Also in order to have a more holistic assessment of progress of students, apart from conducting mock theory examinations, we have also decided to conduct mock practical examinations from this year onwards.

Every year, the papers and posters made by the post graduates under the guidance of the faculty consistently win accolades at state and national level conferences. A few of the studies have also been selected for publications in national and international journals.

#### **10. Collaboration with other departments / institutions at the state, national and international levels. And their outcome during the past two years:**

Many of the PG thesis works and independent researches have been done in collaboration with the departments of Radiation oncology, Nuclear medicine, Medicine, Cardiology, Orthopaedics, Surgery etc. Amongst the on-going projects, one of the post graduate projects on cardiac CT perfusion is being done in collaboration with the departments of

nuclear medicine and cardiology. Amongst the recently completed funded projects, the study on 64 slice CT for visceral fat assessment is being done in collaboration with the departments of cardiology and medicine. Another recently completed ENT post graduate thesis on correlation of HRCT findings with surgical findings in cholesteatoma was done in collaboration with our department.

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

#### Ongoing:

Category	Number
Funded research projects	2
Non – funded research projects	5
PG research projects	17
UG research projects	<b>NIL</b>

#### Last three years:

#### Completed:

		2012	2013	2014
Completed funded research projects		2	0	1
Completed non funded research projects		1	1	0
Completed PG research projects		4	4	4
Completed UG research projects		0	0	0
Publications	International	7	13	26
	National	3	3	5
Books	National	0	0	0
Chapters in books		4	NIL	NIL
Conference	International	2	0	1
Presentations	National	8	7	11

The detailed outline of projects is given below:

Our on-going funded research projects are:

Sl.No	Title	Principal Investigator	Funding Agency	Total amount received
1	Characterization and quantitative analysis of COPD phenotypes	Dr.SatishBabu	Manipal University And B.O.P	80,662

2	Myocardial viability on MDCT and its correlation with left ventricular recovery after intervention in late presentation of acute myocardial infarction	Dr.Ranjana J.	Manipal University And B.O.P	1,42,600/-
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**Our ongoing non funded research projects are:**

Sl.No	Title	Faculty involved
1	Role of ultrasound and elastography in diagnosis of breast lesions	Dr.Smiti S, Dr.Rajagopal & Dr.Anurag
2	Development and Standardization of Radiation Awareness Tool for Medical Practitioner	Suresh Sukumar, DrRajagopal KV, Dr. Sabu K M
3	MR neurography of peripheral nerves	DrRajagopal KV, DrSatish, WinnieciaDkhar
4	Clinical study for OPAL(US)	Dr.Rajagopal KV
5	Cervical study (3D ultrasound visualization)	Dr.Rajagopal KV

**Our ongoing PG research projects are:**

Sl.No	Title	Name of the student	Guide
1	Role of limited MRI in evaluation of carcinoma rectum	Dr.Radha	Dr.Smiti S
2	Myocardial viability on MDCT and its correlation with left ventricular recovery after intervention in late presentation of acute myocardial infarction	Dr.Ranjana	Dr.Prakashini K
3	MRI in evaluation of anal fistula	Dr.MugilVarman	Dr. Rajagopal KV
4	Advanced MRI imaging techniques in the evaluation of adult intracranial neoplasms	Dr.Nahas K M	Dr. Rajagopal KV
5	Role of 3D ultrasound, power Doppler angiography and MRI in patients with suspected endometrial pathology – A prospective cohort study	Dr.Supritha P	Dr.Rajagopal KV
6	Role of Diffusion Tensor imaging and tractography in evaluation of focal brain lesions	Dr. Balamurugan	Dr. Anurag Ayachit

7	Role of MR arthrography in assessment of severity of glenohumeral labroligamentous lesions-comparison of routine MR and direct MR arthrogram of the shoulder with arthroscopic correlation	Dr. R Krishna Chaitanya	Dr.Rajagopal KV
8	Role of MR Neurography in brachial and lumbosacral plexopathy	Dr. Santhana kumar P	Dr.Rajagopal KV
9	Role of DTI and BOLD MRI in detection of renal parenchymal changes	Dr. Shimona Saini	Dr.Prakashini K
10	Evaluation of breast lesions using mammography,ultrasound & elastography	Dr. Vikram Bajjuri	Dr.Smiti S
11	Intrinsic wrist ligament and TFCC tears: comparison of MRI & direct MR arthrographywith arthroscopy.	Dr. Don Paul Mathew	Dr. Satish Babu M
12	To evaluate the role of Doppler as an adjunct to neurosonogram in infants with suspected hypoxic ischemic encephalopathy	Dr. Shreyas R	Dr. Smiti S
13	Role of real-time ultrasound elastography in evaluation of solid liver masses	Dr. Archana Bala	Dr.Rajagopal KV
14	Role of 3D MR sequences in evaluation of glenoidlabral tears in comparison with conventional MRI	Dr. Keerthi T	Dr.Rajagopal KV
15	Role of high resolution 3D MR imaging in evaluation of knee trauma with emphasis on posterolateral corner injuries	Dr. Rohit Bulbule	Dr. Anurag Ayachit
16	Role of chemical shift imaging and diffusion-weighted MRI in the characterization of benign and malignant vertebral body lesions	Dr. Lakshmi Sindhura A	Dr. Satish Babu M
17	Role of cardiac magnetic resonance imaging in the assessment of ischemic and non-ischemic myocardial disease	Dr. Ruchika Singh	Dr.Prakashini K

**Completed PG research projects:****Year: 2012**

Sl.No.	Title	Name of the student	Guide
1	Evaluation of focal lesions of liver using 64 Row detector CT and sonography	Dr.Umamaheshwar	Dr.Charudutt S
2	Low dose 64 slice MDCT in suspected Urolithiasis	Dr.Anushri P	Dr.Prakashini K
3	Role of CT Perfusion imaging in differentiating high grade glioma from low grade glioma, metastasis, lymphoma and abscess	Dr.Lakshmikanth	Dr.Rajagopal KV
4	Role of grey scale ultrasound and Doppler in differentiation between malignant and benign thyroid nodules	Dr.Manoj Kumar	Dr.Chandrakant S

**Year 2013**

Sl.No.	Title	Name of the student	Guide
1	Efficacy of whole body diffusion weighted MR imaging in metastatic workup	Dr. Samir PM	Dr.Rajagopal KV
2	Computer Aided Detection of pulmonary nodules on 64 Row MDCT	Dr. Rajakokila	Dr. Prakashini K
3	Comparison of cartilage sensitive MR imaging sequences with routine MR imaging protocol in assessment of articular cartilage of the knee	Dr. Raja Kollu	Dr. Charudutt S
4	Role of diffusion – weighted magnetic resonance imaging in the diagnosis of gynaecological neoplasms	Dr. Ullas V A	Dr. Chandrakant S

**Year 2014**

Sl.No	Title	Name of the student	Guide
1	Contrast enhanced ultrasound in evaluation of focal liver mass lesions	Dr. Gauri Rani Karur	Dr. Charudutt S
2	Role of ultrasound and Doppler in evaluation of carpal tunnel syndrome	Dr. Disha Bansal	Dr. Smiti S
3	Evaluation of focal hepatic lesions using dynamic phase contrast enhanced MRI and Diffusion sequences with ADC value	Dr. Rahul Pophale	Dr. Chandrakant S



4	Role of diffusion weighted MRI in the evaluation of lung lesions	Dr. Harshwardhan	Dr.Rajagopal KV
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The details of our publications are prescribed below:

### Year 2012:

#### International:

1. Saxena A, Ray B, Rajagopal KV, D'Souza AS, Pyrtuh S. Morphometry and magnetic resonance imaging of anterior cruciate ligament and measurement of secondary signs of anterior cruciate ligament tear. BratislLekListy 2012; 113 (1)539 – 54 Indexed
2. Vivek G, Naha K, Ramachandran P, RajagopalKV.Ectatic left circumflex artery with fistula to coronary sinus presenting with inferior wall myocardial infarction. BMJ Case Reports 2012;10.113 Indexed
3. Kushal Naha, G Vivek, Padmakumar Ramachandran, Nitin Kansal, Manoj Kumar Gupta. K V Rajagopal, SowjanyaDasari, Lorraine Simone Dias. Tuberculousmediastinal abscess as a paradoxical reaction in an immunocompetent individual. BMJ Case Reports 2012; doi:10.1136/bcr.01.2012.5498 Indexed
4. Dr.Chandrakant M Shetty, Analogue to Digital Radiology, IAEA Technical Document-1667, International Atomic Energy Agency(IAEA)
5. AnuragAyachit, RaghuvirPai, Md. Zubair, K.A. Ahmed, V.R.K.Rao, S.M. Abdul Khader: Study of the influence of Normal and High Blood pressure on normal and stenosed Carotid Bifurcation using Fluid-Structure Interaction. Full technical paper submitted for 3rd International Conference on Mechanical and Manufacturing Engineering, Applied Mechanics and Materials Journal, ISSN 1660-9336, indexed
6. AnuragAyachit, RaghuvirPai, V.R.K.Rao& Ganesh Kamath, Abdul Khader SM, FSI Simulation of Common Carotid under Normal and High Blood Pressures, Advances in Mechanical Engineering, Vol.2012 ID 140579, Calibri
7. PrakashiniKoteshwara,SripatiSmiti, TR Binu, Padmakumar, A rare coronary artery anomaly: duplication of right coronary artery with separate ostium on 64-row multidetector computed tomography. Singapore Med Journal, 53(6), 125,
8. SatishBabuMaddukuri, Kerstin Kutsche, and Katta Mohan Girisha: Expanding the Phenotype Associated With 17q12 Duplication: Case Report and Review of the Literature, , 161A:352–359, TatjanaBierhals, Am J Med Genet Part A, 161 A, 352–359  
National
9. AnuragAyachit, B. RaghuvirPai, V. R. K. Rao, and S. Ganesh Kamath, S. M. Abdul Khader, Article ID 140579: FSI Simulation of Common Carotid under Normal and High Blood Pressures. Advances in Mechanical Engineering: Hindawi Publishing Corporation, indexed.

10. AnuragAyachit, RaghuvirPai, Md.Zubair, K.A. Ahmed, V.R.K.Rao, S.M. Abdul Khader: Study of the influence of Normal and High Blood pressure on normal and stenosed Carotid Bifurcation using Fluid-Structure Interaction. Full technical paper submitted for 3rd International Conference on Mechanical and Manufacturing Engineering, Applied Mechanics and Materials Journal, ISSN 1660-9336, indexed.

### 2013 :

1. Sukumar Suresh, Rajagopal KV, Sabu KM, Kotian Rahul P, Kotian, Sahana (2013) *Perception of Informed Consent Among the Patients Coming to Radiology Department*. Indian Journal of Research, 2 (11). pp. 228-230. ISSN 2250-1991
2. Harshwardhan Jain Anirudda Deshpande, Ali M Favaz, K V Rajagopal. . MRI in rabies encephalitis. BMJ Case Reports 2013.
3. Suresh Sukumar, Dr. Rajagopal K. V, Dr. Sabu K M. Perception of radiation awareness among medical doctors in India. International Journal of Pharmacy and Biological Sciences, 3 (3) 2013:371-376.
4. Manoj K. Gupta, Padmakumar Ramachandran, RajagopalKadavigere, Biby Chacko. Transcatheter Closure of an Atrial Septal Defect with Single Coronary Artery and Retro-Aortic Right Coronary Artery. Hellenic J Cardiol 2013; 54: 221-223
5. Quantitative and Qualitative bowel analysis using mannitol, water and iodine-based endoluminal contrast agent on 64-row detector CT – IJRI – Indian JNournal of Radiological imaging 23 :373-378
6. Successful management of inoperable Klatskin’s tumour by high dose intraluminal brachytherapy without the need for post radiation stenting – Acta Gastro-Enterologica Belgica, Vol. LXXVI, April-June 2013.
7. S Sripathi. Comparative Study Evaluating the Role of Color Doppler Sonography and Computed Tomoragraphy in Predicting Chest Wall Invasion by Lung Tumours – JUM – September 2013 32 :1539-1546 ; doi :10.7863/ultra.32.9.1539
8. C Sambhaji, Chandrakant Manmath Shetty, V Joseph, Vadhiraaja BM, M S Vidhyasagar. Successful management of inoperable Klatskin’s tumour by high dose intraluminal brachytherapy without the need for post radiation stenting – Acta Gastro-Enterologica Belgica, Vol. LXXVI, April-June 2013.
9. Vivek Joseph, Charudutt Sambhaji, and K Prakashini. Radial Artery pseudoaneurysm managed by prolonged ultrasound guided compression repair and aided by interval application of compression devise, Australian Medical Journal 6 (4) 192-195.
10. Prakashini K, Kakkar C, Sambhaji C, Shetty CM, Rao VR. Quantitative and Qualitative bowel analysis using mannitol, water and iodine-based endoluminal

contrast agent on 64-row detector CT – IJRI – Indian Journal of Radiological imaging 23 :373-378.

11. S.M. Abdul Khader, RaghuvirPai B, AnuragAyachit, K.A. Ahmed, V.R.K Rao, S. Ganesh Kamath, (2013), Patient specific Fluid-Structure Interaction study of cerebral aneurysm, International Journal of Earth Sciences and Engineering, Vol.6, No.4(01), pp:826-831.
12. S.M. Abdul Khader, RaghuvirPai B, AnuragAyachit, K.A. Ahmed, V.R.K Rao, S. Ganesh Kamath, (2013), Comparative study of blood flow through normal and stenosed common carotid artery using Fluid-Structure Interaction, International Journal of Earth Sciences and Engineering, Vol.6, No.4(01), pp:866-871.
13. S.M. Abdul Khader, RaghuvirPai B, AnuragAyachit, K.A. Ahmed, V.R.K Rao, MD Zubair, (2013), Study of the influence of Normal and High Blood pressure on normal and stenosed Carotid Bifurcation using Fluid-Structure Interaction, Applied Mechanics and Materials, Vol.315, pp:982-986.
14. Expanding the Phenotype associated with 17q12 Duplication: a case report and review of the literature Tatjana Bierhals, Satish Babu Maddukuri, Kerstin Kutsche, Katta Mohan Girisha Bierhals T, Maddukuri SB, Kutsche K, Girisha Journal Am J Med Genet161A:352– 359.
15. Hassan R, Kumar S, Rao L, Dumb-bell shaped poorly differentiated pelvic synovial sarcoma with molecular confirmation : A rare presentation of an uncommon disease entity. Indian J. Pathol Microbiol 2013;56 :396-8.
16. Gupta C, P R, Kumar S, D Souza A. A morphometric Analysis of the Foramen Magnum and Variations in its Shape : A Computerized Tomographic Study. Novel Science. Internal Journal of Medical Sciences, U.A.E., 1, April 2013. Available : <http://medical.novelscience.info/index.php/nvm/article/view/14955>.

#### 2014:

1. Samir Paruthikunnan, Balasubramanyam Shankar, RajagopalKadavigere, Mukhyaprana Prabhu, Ramakrishna Narayanan. An unusual case of disseminated toxoplasmosis in a previously healthy pregnant patient: radiographic, CT, and MRI findings. Jpn J Radiol (2014) 32:664-669
2. Chanamgere Govindappa Shashi Kumar, Rajagopal Kadavigere, H Manjunath Hande, Arun G Maiya, Shreemathi S Mayya. Intrinsic foot muscle and plantar tissue changes in type 2 diabetes mellitus. Journal of Diabetes
3. Radha Puppala, Smiti Sripathi, Rajagopal Kadavigere, Prakashini Koteswar, Jyoti Singh. Abdominal cocoon secondary to disseminated tuberculosis BMJ Case Reports Published 19 September 2014; doi:10.1136/bcr-2013-202568

4. Shalini Nayak, Rajagopal K.V, Mary Mathew, Pratap Kumar, jhall, girishkatta, Girisha K.M. Fetal Akinesia Deformation Sequence: Expanding the Phenotypic Spectrum. *Am J Med Genet Part A* 9999:1–6
5. SmitiSripathi, Poonam Mohan Shenoy, Anurag Ayachit, Rajagopal Kadavigere. Bilateral sclerosing orbital pseudotumour in an adult. *BMJ Case Rep* 2014 29;2014. Epub 2014 May 29.
6. K. Suprasanna, Chandrakant M. Shetty, S. Charudutt, Rajagopal Kadavigere. Color Doppler imaging- A surveillance tool in Primary open angle glaucoma. *Journal of clinical Ultrasound* 2014;42 (8); 486–491
7. Mahajan A, Kadavigere R, Sripathi S, Rodrigues GS, Rao VR, Koteswar P. Utility of serum pancreatic enzyme levels in diagnosing blunt trauma to the pancreas. A prospective study with system review. *Injury*. 2014, 45(9):1384-1393.
8. Lakshmikanth Halegubbi Karegowda, Poonam Mohan Shenoy, Smiti Sripathi, Mugil Varman. Joubert syndrome. *BMJ Case Rep* 2014 20;2014. Epub 2014 Mar 20.
9. Poonam Shenoy, Lakshmikanth Karegowda, Smiti Sripathi, Nahas Mohammed. Wolman disease in an infant. *BMJ Case Rep* 2014 12;2014. Epub 2014 Feb 12.
10. Ramesh Bhat, Shruthi K, Prakashini K. Hemiconvulsion-hemiplegia-epilepsy syndrome: clinical course and neuroradiological features in a 20-month-old girl. *British medical Journal Case Reports* 2014.
11. Lakshmikanth Halegubbi Karegowda, Poonam Mohan Shenoy, Koteswara Prakashini, Gauri Karur, A rare case of racemose neurocysticercosis of the posterior fossa, *BMJ Case Rep* 2014. doi:10.1136/bcr-2014-203955 1
12. Chandan Kakkar, Koteswara Prakashini, Ashwin Polnaya. Acute Marchiafava-Bignami disease: clinical and serial MRI correlation:, *BMJ Case Reports* 2014; doi:10.1136/bcr-2013-203442.
13. Bansal Disha, Koteswara Prakashini, Ranjan K Shetty. Persistent left superior vena cava in association with sinus venosus defect type of atrial septal defect and partial pulmonary venous return on 64-MDCT:, *BMJ Case Reports* 2014; doi:10.1136/bcr-2013-202999.
14. Ramesh Y. Bhat, Saikat Patra, P.V. Chaitanya Varma, and K. Prakashini. Hypomelanosis Ito-with unusual pulmonary abnormality in an infant. *Indian Dermatol Online J*. 2014 Apr-Jun; 5(2): 196–197.
15. Dr. Chandan Kakkar, Dr. Chandrakanth Shetty, Dr. Prakashini Koteswar, Dr. Surabhi Bajpayee et al. Imaging findings of peripheral nerve sheath tumors on MR: A pictorial review. Accepted in *IJRI*.
16. Satish Babu Maddukuri, Lakshmikanth Halegubbi Karegowda, Koteswara Prakashini, Swarna Kantipudi. Robert's uterus: a rare congenital müllerian duct

- anomaly causing haematometra. *BMJ Case Reports* 2014; doi:10.1136/bcr-2014-204489.
17. B Raghuvir Pai, Anurag Ayachit, S M Abdul Khader, K A Ahmed, V R K Rao, S Ganesh Kamath, P D Gupta. Effect of postural changes on normal and stenosed common carotid artery using FSI. *Australasian physical & engineering sciences in medicine / supported by the Australasian College of Physical Scientists in Medicine and the Australasian Association of Physical Sciences in Medicine* 02/2014; DOI: 10.1007/s13246-014-0246-0.
  18. "Cryptogenic brain abscess due to community-associated methicillin-resistant *Staphylococcus aureus*." Deepak Juyal, Shekhar Pal, Mahesh Ramola, Vyas Kumar Rathaur, Neelam Sharma, Anurag Ayachit. *Int J Med Public Health* 2014;4:134-6. DOI: 10.4103/2230-8598.127176.
  19. Lakshmikanth HalegubbiKaregowda, SatishBabuMaddukuri, Poonam Mohan Shenoy, SwarnaKantipudi. Mechanical ventilation-induced 'pneumoangiogram' of cerebral vessels in a trauma patient *BMJ Case Reports* 2014; published online 22 August 2014, doi:10.1136/bcr-2014-205723
  20. SatishBabuMaddukuri, Ramakrishna Narayanan, Lakshmikanth HalegubbiKaregowda, SwarnaKantipudi. Diffuse form of fibrosing mediastinitis causing stenosis of multiple mediastinal vessels. DOI:10.1594/EURORAD/CASE.11710
  21. Lakshmikanth HalegubbiKaregowda, Poonam Mohan Shenoy, SatishBabuMaddukuri, HarshaKyalakond. Importance of radiological imaging in a case of subungual glomus tumour. *BMJ Case Reports* 2014; published online 13 October 2014, doi:10.1136/bcr-2014-205649.
  22. Sandeep Kumar, Roumina Hasan, SatishBabuMaddukuri, Mary Mathew. Angiomyoma presenting as a painful subcutaneous mass: a diagnostic challenge *BMJ Case Reports* Published 16 October 2014; doi:10.1136/bcr-2014-206606.
  23. Kumar S, Ayachit A, Verman M, Maddukuri S. Imaging & neglected transradial, transscaphoid volar perilunate fracture dislocation in a skeletally mature adult : a novel constellation. *BMJ Case rep.* Published online : (05 Feb 2015) doi : 10.1136/bcr-2014-208578
  24. Rao AC, Monappa V, Kumar S. Primary (Poorly Differentiated) Sclerosing Liposarcoma of Temporal Region. An Uncommon Tumor in a Rare Site: A Case Report. *J Interdiscipl Histopathol*; Online First: 29 Dec, 2014. doi:10.5455/jihp.20141217072254.
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26. Balasubramanyam Shankar, Narayanan R, Paruthikunnan SM, Kulkarni CD. Scrotal migration of ventriculoperitoneal shunt. *BMJ Case Rep.* 2014 Apr 9;2014. pii: bcr2014204404. doi: 10.1136/bcr-2014-204404.
27. Balasubramanyam Shankar, Ramakrishna Narayanan, Pushkaran Muralitharan, Balamurugan Ulaganathan. Evaluation of mild encephalitis/encephalopathy with a reversible splenial lesion (MERS) by diffusion-weighted and diffusion tensor imaging. *BMJ Case Rep.* 2014 Jun 4;2014. pii: bcr2014204078. doi: 10.1136/bcr-2014-204078.
28. Balasubramanyam Shankar, Narayanan R, Paruthikunnan SM, Kulkarni CD. "Persistent singultus as presenting symptom of syringobulbia." *BMJ Case Rep.* 2014 Jun 30;2014. pii: bcr2014205314. doi: 10.1136/bcr-2014-205314.
29. Narayanan R, Balasubramanyam Shankar, Paruthikunnan SM, Kulkarni CD. "Paracondylar process of the occipital bone of the skull: a rare congenital anatomical variant." *BMJ Case Rep.* 2014 Oct 15;2014. pii: bcr2014205315. doi: 10.1136/bcr-2014-205315.
30. Ramakrishna Narayanan, Balasubramanyam Shankar (2014, Jul 14). Xanthogranulomas of Choroid plexus, URL: <http://www.eurorad.org/case.php?id=12025> DOI: 10.1594/EURORAD/CASE.12025

**The details of books – chapters published by our faculty are given below:**

**Year 2012**

Sl.No	Title of the chapter	Name of the faculty	Publisher
1	Imaging of Gastrointestinal infections in the book "Manipal Manual of Surgery"	Dr.Rajagopal KV	Jaypee publications
2	Endovascular Management of vein of Galen Malformation –Book "Paediatric Neuro Surgery, Society of Cerebrovascular Surgery"	Dr.VRKRao	
3	Conventional Radiology Book "Manipal Manual of Surgery"	Dr.Chandrakant M Shetty	Jaypee publications

**Year 2013 – Nil**

**Year 2014 - Nil**



**The details of our conference presentations have been listed below  
2012**

Sl.No.	Title of the presentation	Name of the faculty	Details of conference
1	Radiologic signs for identifying subtle fractures in upper and lower limbs	Dr.Rajagopal K V	65 <sup>th</sup> Annual Conference of the Indian Radiological & Imaging Association. Hyderabad 27 to 31 <sup>st</sup> Jan 2012
2	Radiographic signs to identify subtle extremity fractures and dislocations. CME on Skeletal and Soft tissue Imaging	Dr.Rajagopal K V	Srinivas Institute of Medical Sciences On 26 <sup>th</sup> August 2012 – Surathkal, Mangalore.
3	MRI of focal liver lesions	Dr.Rajagopal K V	18 <sup>th</sup> November 2012 at Fr.Muller's Med.College, Mangalore
4	Comparative study of flow behavior in Patient Specific Cerebral Aneurysms using computational Fluid Dynamics (CFD)	Dr.V.R.K.Rao	65 <sup>th</sup> Annual conference of I.R.I.A., Hyderabad, 25 <sup>th</sup> Jan 2012
5	Venous Interventions.	Dr.VRKRao	Indian Society of Vascular and Interventional Radiology
6	Advances in Neuro Interventions	Dr.VRKRao	RAIN Conference, 22 <sup>nd</sup> October, 2012 Chennai
7	Radiological Physics, PG Refresher course for post graduates	Dr.Chandrakant M Shetty	Bangalore on Feb 24 <sup>th</sup> 2012
8	MRI in Focal Liver Lesions Gastrointestinal update	Dr.Chandrakant M Shetty	March 8 <sup>th</sup> , 2012, Sawangi, Meghe, Wardha.
9	Mesenteric Ischemia, Survival guide of CT signs in Diagnosis and Management on 64 slice MD CT	Dr.Chandrakant M Shetty	Radiological Society of North America (RSNA) Conference, 25 to 30 November at Chicago, USA
10	Computed and Digital Radiography (CR and DR)	Dr.Chandrakant M Shetty	Vydehi Medical College on May 2012



	Artifacts, Radiological Physics Meet		
11	Computed and Digital Radiography(CR and DR) Artifacts, Radiological Physics Meet	Dr.Chandrakant M Shetty	Radiological Society of North America(RSNA) conference, 25 to 30 Nov at Chicago, USA
12	Acute inflammatory fatty lesions of abdomen – masquerador of acute abdomen. Can CT help in deciding management?	Dr.Smiti S	28 <sup>th</sup> Annual State Level conference of IRIA, Karnataka State Chapter. March 24-25, 2012
13	Chaired a session in CME on “Skeletal and soft tissue Imaging”	Dr.Smiti S	26 <sup>th</sup> August 2012, at Srinivas Institute of Medical Sciences, Surathkal, Mangalore.
14	Role of ultrasonography and MRI in the diagnosis, management and follow up of patients with leprosy	Dr.RanjetJagdale, Dr.SatishBabu.M, DrGeetanjali Sharma, DrHarshwardhan Jain, DrSwarna	RSNA Annual conference 2012. Chicago, Nov 25 to 30, 2012
15	Role of CT Perfusion Imaging in Differentiating High Grade Glioma from Low Grade Glioma, Metastases, Lymphoma and Abscess	Dr.Lakshmikanth HK (PG)	65th annual conference of Indian Radiology & Imaging Association, 25 <sup>th</sup> Ja25 <sup>th</sup> Jan 2012 at Hyderabad
16	“Evaluation of focal lesions of Liver using 64 row detector CT and sonography	Dr.Umamaheshwar Reddy (PG)	65th annual conference of Indian Radiology & Imaging Association,25 <sup>th</sup> Jan 2012 at Hyderabad
17	Role of Gray Scale Ultrasound and Doppler in Differentiation between Malignant and Benign Thyroid Nodules”	Dr.Manoj K (PG)	65th annual conference of Indian Radiology & Imaging Association 25 <sup>th</sup> Jan 2012 at Hyderabad

18	Low Dose 64 Slice MDCT in Suspected Urolithiasis”	Dr.AnushriParakh(PG)	65th annual conference of Indian Radiology & Imaging Association 25 <sup>th</sup> Jan 2012 at Hyderabad
<b>POSTER</b>			
1	Venous Interventions.	Dr.VRKRao	Indian Society of Vascular and Interventional Radiology 20th September, Chennai
2	Advances in Neuro Interventions	Dr.VRKRao	RAIN Conference 22nd October at Chennai
3	Mesenteric Ischemia: Survival Guide of CT Signs in Diagnosis and Management on 64 Slice MDCT.	Dr.Chandrakant M Shetty	Radiological Society of North America(RSNA) conference, Chicago, USA, 25 <sup>th</sup> to 30 <sup>th</sup> November
4	Acute inflammatory fatty lesions of abdomen – masquerador of acute abdomen. Can CT help in deciding management?	Dr.Smiti S	28 <sup>th</sup> Annual State Level conference of IRIA24 <sup>th</sup> to 25 <sup>th</sup> March. Karnataka State Chapter, Manipal
5	Role of ultrasonography and MRI in the diagnosis, management and follow up of patients with leprosy	Dr.RanjetJagdale,	RSNA Annual conference 2012, November 25 to 30, Chicago
6.	Anterior knee pain – Spectrum of imaging findings	Dr.Samir (PG)	28 <sup>th</sup> Annual State Level conference of IRIA24 <sup>th</sup> to 25 <sup>th</sup> March. Karnataka State Chapter, Manipal
7	Parsonage turner syndrome	Dr.Ullas (PG)	28 <sup>th</sup> Annual State Level conference of IRIA24 <sup>th</sup> to 25 <sup>th</sup> March. Karnataka State Chapter, Manipal

## Year 2013

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	MRI in cervical lesions	Dr.Rajagopal KV	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
2	Does Elastography have a role in diagnosis of breast lesions?	Dr.Smiti S	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
3	Granulomatous mastitis – a diagnostic dilemma	Dr.Smiti S	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
4	Role of Whole body diffusion Weighted MR imaging in metastatic workup	Dr.Samir (PG)	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
5	Computer aided detection of pulmonary nodules on 64 Row MDCT”	Dr.Raja Kokila (PG)	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
6	Comparison of cartilage sensitive MR imaging sequences with routine MR imaging protocol in assessment of articular cartilage of the knee	Dr.Raja Kollu (PG)	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
7	Role of diffusion-weighted magnetic resonance imaging in the diagnosis of gynaecological neoplasms	Dr.Ullas V.A (PG)	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
<b>POSTERS</b>			
1	Differential diagnosis of diffuse brainstem hyperintensit	Dr.Pushkaran (PG)	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
2	The unstable patella-imaging spectrum under MSK category	Dr.Jeevitha S	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.
3	Spinal dysraphism	Dr.Femina (PG)	66 <sup>th</sup> Annual conference of IRIA 2013, held at Indore from 4 <sup>th</sup> to 7 <sup>th</sup> Jan 2013.

## Year 2014

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1	Efficacy of diffusion weighted magnetic resonance imaging (DWI) in the evaluation of gynaecological lesions	Dr.Rajagopal KV	International conference in OBG at BMICH, Colombo, Srilanka from 30 <sup>th</sup> October to 2 <sup>nd</sup> November 2014. FIGO-SAFOG-SLCOG 2014
2	Role of contrast enhanced ultrasonography (Ceus) in Evaluation of Focal liver lesions	Dr.Gauri Rani Karur(PG)	67 <sup>th</sup> Annual conference of IRIA held at Agra from 23 <sup>rd</sup> Jan to 26 <sup>th</sup> Jan 2014.
3	Evaluation of role of Ultrasonography and Doppler in Carpal Tunnel Syndrome	Dr.Disha Bansal (PG)	67 <sup>th</sup> Annual conference of IRIA held at Agra from 23 <sup>rd</sup> Jan to 26 <sup>th</sup> Jan 2014.
4	Evaluation of Focal Hepatic Lesions using Routine MRI sequences and Diffusion Weighted imaging with apparent diffusion coefficient (Adc) Values	Dr.Rahul Pophale (PG)	67 <sup>th</sup> Annual conference of IRIA held at Agra from 23 <sup>rd</sup> Jan to 26 <sup>th</sup> Jan 2014.
5	Role of Diffusion Weighted Magnetic Resonance Imaging in the evaluation of Lung Lesions	Dr.Harshawardh an Jain (PG)	67 <sup>th</sup> Annual conference of IRIA held at Agra from 23 <sup>rd</sup> Jan to 26 <sup>th</sup> Jan 2014.
6	Neuroimaging findings in clinically diagnosed cerebral palsy patients	Dr.Prakashini	IX Annual conference of Indian Academy of Cerebral palsy IACPCON 2014 held from 9 <sup>th</sup> to 13 <sup>th</sup> October 2014 at Hyderabad.
7	Role of Imaging in liver disorders	Dr.Rajagopal KV	National Seminar on Yakrit Vakara from 5 <sup>th</sup> & 6 <sup>th</sup> December 2014 at SDM College of Ayurveda, Kuthpady, Udupi
8	Role of MRI in SOLs of liver with emphasis on DWI	Dr.Rajagopal KV	CME on Body MRI and PET CT held on 14 <sup>th</sup> December 2014 in the Dept of

			Radiodiagnosis & Imaging KMC Manipal.
9	Radiological approaches in diagnosis of spine disorders	Dr.Rajagopal KV	“AYURVISION 2014” National conference entitled “Spine orders and their management” held on 22.12.2014 and 23.12.2014 at Manipal.
10	“Breast MRI Imaging – Indications and protocols of MRI breast” DWI	Dr.Smiti S	CME on Body MRI and PET CT held on 14 <sup>th</sup> December 2014 in the Dept of Radiodiagnosis & Imaging KMC Manipal.
11	Indications and protocol of Cardiac MRI	Dr.Prakashini	CME on Body MRI and PET CT held on 14 <sup>th</sup> December 2014 in the Dept of Radiodiagnosis & Imaging KMC Manipal
12	Imaging of Musculoskeletal injuries-Wrist	Dr.Satish Babu M	Seminar on “Clinical investigations for allied Health Professionals” on 9 <sup>th</sup> September 2014 conducted by Physiotherapy Dept, Manipal.
<b>POSTER</b>			
1	Haemodynamics study in subject specific carotid bifurcation using FSI (peer-reviewed draft paper code: HS-046).	Dr.Anurag Ayachit	International conference on computational methods in Engineering and Health Sciences” being held at MIT Manipal from Dec 17-19, 2014
2	MR imaging spectrum of Mullerian Duct Anomalies – a road map for Radiologists.	Dr.Sandeep Kumar	MRI Update 2014” held at Mumbai from 19 <sup>th</sup> to 21 <sup>st</sup> Dec 2014

## **12. Placement record of the past students and contribution of the department to aid students placements:**

Nil

## **13. Plan of action of the department for the next five years:**

- i. Contemplation on adding multiple-choice questions in to the evaluation format to improve the assessment and evaluation of students.
- ii. Optimize the use of resources for enhancing student learning and encourage more inter-departmental meets and guest lecture programmes.
- iii. Try out newer teaching-learning methods to enhance student learning.
- iv. Conduct continuing medical education programmes on a regular basis in the department.
- v. Encourage faculty and staff alike to attend, present and publish papers in national and international conferences.
- vi. To optimize the use of information technology in order to improve student learning.

## RADIOTHERAPY

### 1. Faculty profile - adequacy and competency of faculty

There are ten teaching faculty members who meet the requirements for Undergraduates (MBBS); Postgraduates (MD.RT) . All faculty members are competent.

#### Faculty List:

Sl.No.	Name	Qualification	Designation	Teaching experience in years
1.	Dr.Donald J. Fernandes	MBBS, DMRT,MD	Professor & Head	29
2.	Dr.M.S.Vidyasagar	MBBS, DMRT,MD	Professor	31
3.	Dr.Krishna Sharan	MBBS, MD	Assoc. Prof.	7
4.	Dr.Anshul Singh	MBBS, MD	Senior Resident	1
5.	Dr.Prahlad HY	MBBS, MD	Senior Resident	1
6.	Dr.Anusha Reddy	MBBS, MD	Senior Resident	<01
7.	Mr.Srinidhi G Chandragutti	M.Sc.,DRP	Senior Grade Lecturer	10
8.	Ms.B Ramya	M.Sc.	Senior Grade Lecturer	10
9.	Ms. Jyothi	M.Sc	Lecturer	5
10.	Mr.Sarath S Nair	M.Sc	Lecturer	1
11.	Dr.Bhanu Prakash Bandlamudi	MBBS	Junior Resident	-
12.	Dr.Uday Kumar P	MBBS	Junior Resident	-
13.	Dr. D Shiva Prasad	MBBS	Junior Resident	-
14.	Dr.NajahMohamedNizam	MBBS	Junior Resident	-
15.	Dr.Sudireddy BindhuReddy	MBBS	Junior Resident	-
16.	Dr.AilSandeep	MBBS	Junior Resident	-

Category	Sanctioned	Filled
Teaching Staff	07	07
Senior Residents	03	03
Junior Residents	06	06

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure no. HS 1 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 MCI and the department strictly complies with the laid down requirement. The same will be discussed in the Radiotherapy Board of Studies meeting held once in a year with all members.

Both UG (B.Sc.MRT) and PG (M.Sc. MRP) programme curriculum meets the minimum required syllabus prescribed by Atomic Energy Regulatory Board

### 4. Trends in the success and dropout rates of students during the past two years

Course	Pass Percentage		Dropout Rate	
	2013-14	2014-15	2013-14	2014-15
MD(RT)	100	100	0	0

### 5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped Library with over 117 books and 07 Journals, Computers with internet facility, available to the Postgraduate students in the workplace and online 24 hour access to Central Library is also available through several computers. All the Postgraduates and faculty members also have been provided the Laptops by the University. The Campus is also Wi-Fi enabled. The Department has also 8 desktop computers with 5 multi-functional printers.

The equipment available in the department caters to the requirements of both PG and UG curriculum and enables students to get hands on training in dosimetry, quality assurance procedures of therapy equipment.

### 6. Modern teaching methods practiced and use of ICT in teaching – learning

The Department has two Air conditioned Seminar room with audio visual aids to facilitate teaching and learning. Faculty members are freely accessible to the postgraduates to develop self-learning, e-learning modules, case discussion, etc.

The department extensively uses Audio Visual aids like Power Point and multi-media, LCD Projector for teaching. The Department also conducts Case Discussion, Journal Club, Seminar and Group Discussion in addition to the ward rounds.

Students are posted in batches of 2 or 3 in various areas in the department in rotation. Demonstration and hands on training is given in dosimetry, quality assurance procedures of therapy equipment during their practical sessions and departmental postings enable students to observe and learn simulation procedures using simulator and CT simulator as

well as patient treatment using therapy equipment. Students are asked to present their observations made during departmental postings twice in a year.

Through seminars and presentations students are made to collect materials, design and prepare the presentation and submit/ present to the department which are then evaluated by the faculties.

#### **7. Participation of teachers in academic and personal counseling of students:**

All teachers are engaged in actively teaching both undergraduates and postgraduates. Every batch of student is equally divided among available staff members for personal interaction and monitoring. In addition to regular classes the students approach the staff members to any academic assistance. Postgraduates are encouraged to clarify their doubts both during the lectures or later. The postgraduates undertake their prescribed dissertation work under the guidance of their allotted guide and also does voluntary research project under different faculty. Postgraduates are encouraged to present paper/posters during National conference. They are also guided by faculty to publish quality papers in National/International Indexed Journals.

For M.D.Radiotherapy Postgraduates are submitting Dissertation during their course study 6 months before the Final examination which was evaluated by 2 External Examiner and one Internal Examiner. Candidates are eligible to appear for the Final examiner if the Dissertation is accepted by the Examiner.

All the students are given additional opportunities in terms of improvement sessional.

All first year UG students are taken care by a faculty who is assigned teacher guardianship. The concerned faculty is responsible for both academic and personal development of their wards. The students are free to approach their teacher guardian or any other faculty with their difficulties.

#### **8. Details of faculty development programmes and teachers who have been benefited during the past two years**

All our faculties have attended faculty development programmes pertaining to teaching-learning and evaluation and also research methodologies.

All faculties regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 22such programmes.

### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the PG teachers are involved in guiding the PG students in conducting research as a part of their PG training requirement.

All the faculties are actively involved in teaching UG and PG students. All of them participate in research including sponsored research, such as ICMR, BRNS, etc.

#### Dr.Prahlad H.Y.

##### Accomplishments - Academic

1. Winner of quiz at Gokarma, Aug 2013 - combined conference of Goa, Karnataka and Maharashtra chapters of AROI.
2. Winner of Best Poster at Women Cancer Initiative conference, Oct 2013, Mumbai.

### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

The Faculty members have jointly published scientific articles in collaboration with Radiology, Radiobiology, and Laser Spectroscopy and Biochemistry Departments in various International/national indexed journals.

1. The faculty have jointly done a minor project in collaboration with Department of Immunohematology & Blood Transfusion last year and published the work in international indexed journal.
2. Faculty has contributed materials to the ICMR funded project in the Division of Clinical Embryology during this year and published the work in international indexed journal.

### 11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years

Priority areas for Research:

1. Concomitant chemo-radiotherapy in Head and Neck cancers.
2. Radiotherapy-Chemotherapy in the management of esophageal cancers.
3. Chemo-radiotherapy in cervical cancers.
4. Breast conservation therapy in early breast cancers.

#### On goingfunded Projects:

A snapshot of our research activities and publication activities in given in the tables below.

**Ongoing:**

Category	Number
Funded research projects	3
Non-funded research projects	0
PhD research projects	0
PG research projects	9 +
UG research projects	0
National	2

**Ongoing Research Project:**

Sl.No.	Title	Principal Investigator	Funding Agency	Total Amount received in Rs.
1.	"Effectiveness of exercise based Rehabilitation on Functional capacity and Quality of Life in Head & Neck Cancer Patients receiving chemo-radiotherapy"	Dr.DonaldJ. Fernandes	Applied for BRNS	
2.	"Breast Cancer Screening Programme"	Dr.DonaldJ.Fernandes	Bhandarkars Breast Cancer Fund	8, 00,000/-.
3.	"ShirdiSaibaba Cancer Care Endowment Fund Project"	Dr.DonaldJ.Fernandes	Shamdasani Foundation, Hongkong	1 Crore
	$\gamma$ -H2AX foci Analysis for the Management of Early Triage and its Semi-automatization for High-throughput Analysis,	Dr.DonaldJ.Fernandes (Co I)	BRNS	24, 31,000/-.
	Investigations on the role of mitochondria for understanding radiotherapy induced normal tissue adverse reactions in head and neck cancer patients	Dr.DonaldJ.Fernandes (Co I)	DST, Govt.of India	58,99,000/-

**RESEARCH PUBLICATION FROM 2013-2014****Year 2012:****International Journal:**

1. Ajay PrashadGautam, Donald J.Fernandes, Mamidipudi S Vidyasagar, G ArunMaiya, Low level Helium Neon Laser therapy for chemo radiotherapy induced oral Mucositis in oral cancer patients- a randomized controlled trial. *Journal of Oral Oncology*, 48, 893-897, 2012.
2. Hassan VenkateshGoutham,KamaleshDattaramMumbrekar, BejadiManjunathVadhiraja, Donald Jerald Fernandes, Krishna Sharan, GuruprasadKaniveParashiva, SatyamoorthyKapaettu, SatishRao Bola Sadashiva DNA Double-strand break analysis by  $\gamma$ -H2AX Foci: A useful method for determining the over-reactors to Radiation-Induced acute reactions among head and neck cancer patients. *Int.J.RadiationOncolBiolPhys*, 84, 5, e612, 2012
3. Ajay PrashadGautam, Donald J. Fernandes, Mamidipudi S. Vidyasagar , Arun G. Maiya,Bejadi M. Vadhiraja  
Low level laser therapy for concurrent chemo radiotherapy induced oral Mucositis in head and neck cancer patients – A triple blinded randomized controlled trial. *Journal of Radiotherapy and Oncology*, 104, 349-354, 2012
4. PU Saxena, Donald Fernandes, ArunMaiya,KrishnaSharan  
Abstract titled “Effects of low level laser therapy in the prevention and treatment of concurrent chemo radiotherapy induced oral Mucositis- A Triple blind Randomized Controlled Trial”  
*J ClinOncol* 30, 2012, suppl; abstr, 5526, 2012
5. Saleena U.V., MS 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.BiolMed.Res.* 3(3), 0000-0000, 2012

**Year 2013:****International Journal:**

1. Dayanidhi Kumar, SujithRajSalian, GuruprasadKalthur, ShubhashreeUppangala, SandhyaKumari, SrinivasChallapalli, Srinidhi Gururajaroo Chandraguthi, Hanumanthappa Krishnamurthy, Navya Jain, Pratap Kumar, Satish Kumar Adiga Semens Abnormalities, Sperm DNA Damage and Global Hypermethylation in Health Workers occupationally exposed to Ionizing Radiation.  
*PLOS/ONE* Vol.8, Issue 7, E69927, July 2013.
2. YousefRezaeiChineh, KrishnandaPrabhu, Rashmi M, Donald Fernandes  
Significance of salivary phosphodiesterase level in oral squamous cell carcinoma patients

Int.Jrl of Res.in Med.Sciences, 1(4), 417-420, 2013.

3. ShameeShastry, Ramya B, JefyNinan, Srinidhi G.C., Sudha S Bhat, Donald J.Fernandes

Linear Accelerator: A reproducible, efficacious and cost effective alternative for blood irradiation: Sciences, Transfusion and Apheresis, 49, Issue 3, 528-532, Dec.2013.

#### **Year 2014:**

##### **International Journal:**

1. BKM Reddy, V.Lokesh, M.S.Vidyasagar, K.Shenoy, K.G.Babu, A.Shenoy, T.Naveen, Bindu Joseph, R.Bonanthaya, Nanjundappa, P.P.Bapsy, Loknatha, JayaramaShetty, Krishna Prasad, C.R.Tanvir Pasha Nimotuzumab provides survival benefit to patients with inoperable advanced squamous cell carcinoma of the head and neck: A randomized, open-label, phase IIb, 5-year study in Indian patients, J.OralOncoogy, 50, Issue 5, 498-505, 2014.
2. NarendraHulikal, Joseph Thomas, Donald J Fernandes, Satadru Ray  
Factors that predict pathologic complete response in patients receiving Neoadjuvant chemotherapy for locally advanced breast cancer, J ClinOncol, 31, Suppl; abstr e11588, 2014.
3. Mumbrekar KD, Fernandes DJ, Goutham HV, Sharan K, Vadhiraja BM, Satyamoorthy K, Sadashiva, SRB, Influence of Double strand break repair on Radiation therapy induced Acute skin reactions in breast cancer patients, IJROBP, 88(3), 671-6, 2014.
4. Kumaran A, Guruvare S, Sharan K, Rai L, Hebbar S.  
Chemoradiation related acute morbidity in Carcinoma cervix and Correlation with Hematologic Toxicity: a South Indian Prospective Study, Asian Pac J Cancer Prev, 15(11): 4483-6, 2014.
5. S.Samuel, S.Kumar V, A Maiya, D.Fernandes  
Physical therapy based exercise interventions for cancer survivors in India-A Systemic review, MASCC-0539, Support care Cancer, 22, S1-S238, 2014.
6. Monica C, Vidyasagar MS, Fernandes Donald, Vasudeva G  
Clinicopathological correlation of the expression of cyclin D1 and Bcl-2 in oral squamous cell carcinoma – a tissue microarray study  
International Journal of scientific research, 3, issue 02, 361-365, 2014.
7. Dayanidhi Kumar , Sujith Raj Salian , GuruprasadKalthur , ShubhashreeUppangala , SandhyaKumari , SrinivasChallapalli , ShrinidhiGururajaraoChandraguthi , Navya Jain, Hanumanthappa Krishnamurthy , Pratap Kumar , Satish Kumar Adiga.  
Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation  
Environmental Research 132 (2014) 297–304

**Year 2014:****National Journal:**

1. Venkatesh G H, Vadhiraja BM, Mumbrekar KD, Negi H, Fernandes DJ, Sharan K, Banerjee S, Sadashiva, SRB  
Polymorphisms in Radio-Responsive Genes and Its Association with Acute Toxicity among Head and Neck Cancer Patients. PLOS ONE, 9, Issue 3, 1-9 (e89079), 2014.
2. Sharan K, Fernandes DJ, PrakashSaxena PU, Banerjee S, Sathian B  
Treatment outcomes after intraluminal brachytherapy following definitive chemoradiotherapy in patients with esophageal cancer, J Can ResTher, 10, 337-41, 2014.
3. GangadharVajrala, Piyush K. Jain, ShitalkumarSurana, Donald J.Fernandes  
Generalized vitiligo post radiotherapy in a breast cancer patient, Journal of Cancer Research and Therapeutics, 10; Issue 2, 365-7, April-June 2014.
4. YousefRezaeiChineh, RashmiManjunath, KrishnandaPrabhu, Donald Fernandes, M.Vidyasagar, AshaKamath  
Protein Thiols and Butryrylcholinestrace in Saliva of oral cancer patients, Ind.JClinBiochem, 29(2), 232-241, 2014.
5. Malathi G Nayak , Dr.Anice George , Dr. M.S Vidyasagar , Dr.AshaKamath  
Quality of life of family caregivers of patients with advanced cancer  
IOSR Journal of Nursing and Health Science (IOSR-JNHS), 3, Issue 2, Ver.1, 70-75, 2014.

**Books Published:**

1. Dr.KrishnaSharan: Co-authored for the “Breast Cancer Cases forecasting for Radiotherapy in Western Nepal,” Lambert Academic Publishing, 2013. ISBN: 978-3-659-37980-2.

**The details of our conference presentations have been listed below:****Year 2012International:**

Sl.No.	Title of the presentation	Name of the faculty	Details of Conference
1.	“Effects of low level laser therapy in the prevention and treatment of concurrent chemoradiotherapy induced oral mucositis- A Triple blind Randomized Controlled Trial”	Dr.P.U.Saxena	ASCO annual conference Chicago June 1-5 2012.



**Year 2013**

**International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	“ Effects Of Low Level laser Therapy in prevention and treatment of concurrent chemo-radiotherapy induced oral mucositis: A triple Blind randomized control trial.”	Dr.Anusha Reddy	CANCER CI-2013 from February 8 <sup>th</sup> to 10 <sup>th</sup> at Taj Krishna, Hyderabad

**National:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	“Treatment outcomes after Intraluminal Brachytherapy boost following definitive chemo-radiotherapy in patients with esophageal cancer”	Dr.DonaldJ. Fernandes	OnCon 2013 Ongoing Cancer Education ,IPGME&R, Kolkota between 14.08.2013.
2.	Chaired a Scientific session on “Post Mastectomy Radiotherapy”	Dr.DonaldJ. Fernandes	“Breast Oncology 2014” held at Kochi from 06.03.2014 to 08.03.2014
3.	“Diagnostic Appraisal: A Forerunner for cancer treatment”.	Dr.M.S. Vidyasagar	“Diagnosis and Ethics-a straddle for oral cancer care” organized by the Department of Oral Pathology and Microbiology on 13 <sup>th</sup> Dec.2014 at MCOCS, Manipal
4.	“Role of Radiotherapy Treatment in Laryngeal Cancer” as part of Pre-conference seminar/Workshop title Laryngectomy: A team Approach”	Dr.M.S. Vidyasagar	47 <sup>th</sup> ISHACON (Indian Speech and Hearing Association) at Manipal from 30-31 <sup>st</sup> December 2014
5.	“Intraluminal brachytherapy in conjunction with biliary stenting for inoperable cholangio carcinomas- a retrospective case series”.	Dr.Krishna Sharan	4 <sup>th</sup> Annual conference of IBSCON 2014 14-16 March 2014, AIIMS, New Delhi

**Year 2014**

**International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	“Patterns of recurrence in locally advanced Squamous Cell Carcinomas of the Head and Neck after three dimensional Conformal Radiotherapy: An institutional experience ”	Dr.Anshul Singh	6th Asian Oncology Summit and 10th Annual Conference of the Organization for Oncology and Translational Research April 2014, Kuala Lumpur, Malaysia.
2	“A Prospective Randomised Controlled Trial to compare Three-Dimension Conformal Radiotherapy (3DCRT) to Intensity Modulated Radiotherapy (IMRT) in Head and Neck Squamous Cell Carcinoma – Long term results”	Dr.Prahlad H.Y.	56 <sup>th</sup> Annual Meeting of 2014 ASTRO to be held at Moscone Centre, San Fransisco held from 14.09.2014 to 17.09.2014

**National:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Chaired Scientific Session ”PET guided radiotherapy” and “Challenges in stereotactic Radiotherapy”	Dr.DonaldJ. Fernandes	Scientific symposium at KMC, Manipal on 28.06.2014
2	Chaired a Scientific session on “Post Mastectomy Radiotherapy”	Dr.DonaldJ. Fernandes	“Breast Oncology 2014” held at Kochi from 06.03.2014 to 08.03.2014
3	“Diagnostic Appraisal: A Forerunner for cancer treatment”.	Dr.M.S.Vidyasagar	“Diagnosis and Ethics-a straddle for oral cancer care” organized by the Department of Oral Pathology and Microbiology on 13 <sup>th</sup> Dec.2014 at MCOBS, Manipal
4	“Role of Radiotherapy Treatment in Laryngeal Cancer” as part of Pre-conference seminar/Workshop title Laryngectomy: A team Approach”	Dr.M.S.Vidyasagar	47 <sup>th</sup> ISHACON (Indian Speech and Hearing Association) at Manipal from 30-31 <sup>st</sup> December 2014
5	“Intraluminal brachytherapy in conjunction with biliary stenting for inoperable cholangio carcinomas- a retrospective case series”.	Dr.Krishna Sharan	4 <sup>th</sup> Annual conference of IBSCON 2014 14-16 March 2014, AIIMS, New Delhi

Organized and Hosted the Conferences/Workshops/CMEs from the Department: 2013-14

1. Organized a CME on “Advances in Gynecological Malignancies” held on 20/12/2014 at KMC, Manipal.
2. Organized CME on “Supportive care in oncology” held on 22/12/2014 at KMC, Manipal.
3. Conducted Free Cancer Detection Camp:  
Free Cancer Detection & screening camp on “World Cancer Day” on 9<sup>th</sup> Feb.2014 at Kuklikatte, Udupi in collaboration with Kasturba Hospital, Manipal and Family Planning Association of India, Kuklikatte. Dr. Krishna Sharan, Associate Professor, delivered a Guest Lecture on “Early Cancer Detection and Screening”. About 100 women’s were screened in this programme.
4. Conducted World Cancer Day: on 14.02.2014:  
ORL-L (Apple-Lemon-Orange) – The refreshing Electrolyte energy drink has been distributed to all Cancer patients in the wards and OPD by M/S JuggatPharma, Bangalore.

## **12. Placement record of the past students and the contribution of the department to aid student placements**

Nil

## **13. Plan of action of the department for the next five years:**

1. To procure new IGRT/SRS machine.
2. To procure a Brachytherapy MUPIT template.
3. The department’s plan of action is to help the college in implementing its strategic plan.
4. Postgraduates training programme in 3D CRT/IMRT and Brachytherapy.
5. Training in chemotherapy.
6. To maintain the research activities and publications in national and international indexed journals.
7. To explore the means to attract external grants for research projects.
8. To improve inter-departmental research projects.
9. Faculty will be encouraged to get trained in newer teaching-learning and evaluation methodologies so that they can be implemented to improve the curriculum effectively.
10. To motivate the faculty to attend and present papers atleast once a year in National/International conferences.

**1. Name of the Department: CARDIOLOGY – KMC – Manipal.**

**2. Faculty profile - adequacy and competency of faculty:**

There are Six teaching staff – 3 Professors, 1 Associate professor and 2 Assistant professors. In addition, there are 7 Senior Registrars. All faculty members are competent in teaching and perform Diagnostic and Interventional Procedures.

**Faculty list**

Sl.No	Name	Qualification	Designation	Teaching Experience in years
1	Dr.Ranjan Shetty	MBBS, MD, DM	Professor	6
2	Dr.Padmakumar	MBBS, MD,DNB,DM	Professor	11
3	Dr.Tom Devasia	MBBS, MD,DM	Professor	8
4	Dr.Hashir Kareem	MBBS, MD,DM	Assoc. Prof.	2
5	Dr. Naveenchandra G.S	MBBS, MD	Asst. Prof.	<01
6	Dr.Ashwal A.J.	MBBS, MD	Asst. Prof.	<01
7	Dr.Abdul Razak	MBBS, MD	Senior Registrar	<01
8	Dr.Rajaram Prasad	MBBS, MD	Senior Registrar	<01
9	Dr. Sumit Agarwal	MBBS,MD	Senior Registrar	<01
10	Dr.Rohith Reddy	MBBS, MD	Senior Registrar	<01
11	Dr. M.Sudhakar Rao	MBBS,MD	Senior Registrar	<01
12	Dr. Sravan Kumar Reddy	MBBS, MD	Senior Registrar	<01
13	Dr.Rajarajan M	MBBS, MD	Senior Registrar	<01

Category	Sanctioned	Filled
Teaching staff		06
Senior Registrar		07

**3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,**

Please refer Annexure No. HS 1 for details

#### 4. Changes made in the courses or programmes during the past three years and the contribution of the faculty to those changes

As per the rules governed by MCI, number of theory papers (DM Cardiology) increased to four instead of three. The course is in concordance with MCI guidelines and the department strictly complies with the laid down requirement. Seats increased from 2 to 3 per year from the academic year 2014-15.

#### 5. Trends in the success and dropout rates of students during the past two years

Course	Year	%age	Drop out rates
DM (Cardiology)	2012-13	100%	0
	2013 -14	100%	0

#### 6. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with over 150 reference books in subjects for the use of faculty and students and online access to most indexed Journals. Computers with internet facility is available to the Postgraduate students in the workplace. All the Faculties have been provided with Laptops by the University.

#### 7. Modern teaching methods practiced and use of ICT in teaching – learning

The department extensively uses like Power Point and multi-media for teaching. In addition the facilities of the clinical skills lab are made use of as and when needed.

#### 8. Participation of teachers in academic and personal counseling of students

All our Faculties have attended Faculty developments programees pertaining to teaching, learning and evaluation also research methodologies. All Faculties regularly attend various scientific programmes like conferences, workshop, symposia and CME's.

The Postgraduate students carry out regular work under the supervision of a Faculty members. The PGs undertake their prescribed Thesis work under the guidance of their allotted guide under different Faculty. Post graduates are also encouraged to present papers/posters during national conferences. They are also guided by Faculty to publish papers in National and International indexed Journals.

**9. Details of faculty development programmes and teachers who have been benefited during the past three years:**

Conference	Location	Month and date	Year	Guest Lecture / Chaired Session / Keynote address
IC @ MANIPAL - Interventional Cardiology Conference	Hotel Valley View, International, Manipal	14 <sup>th</sup> and 15 <sup>th</sup> April	2012	<p>Dr.Padmakumar R, Professor &amp; Head, Dept. of Cardiology, was the Chairman and Dr. RanjanShetty, Associate Professor of Cardiology was the Organizing Secretary for the said conference, Dr. Vivek G, MD,DM, Assistant Professor was the Quiz master Quiz was conducted for Cardiology DM/DNB . Students by Dr.G.Vivek, Asst. Professor</p> <p>The conference was intended to highlight various technical aspects of current Interventional Cardiology. Live cases are transmitted from four Centres, Jayadeva Institute of Cardiology, Bangalore; Ruby Hall Pune, Medantha Hospital, Delhi and KMC, Manipal. Renowned Cardiologists from India and abroad were participated as Faculties. This conference was the first of its kind in coastal Karnataka.</p>
Manipal Cardiology Update -2012	MIT Auditorium, Manipal	1 <sup>st</sup> Nov	2012	<p>Dr.Padmakumar R, Professor &amp; Head, Dept. of Cardiology, was the Chairman and Dr. RanjanShetty, Associate Professor of Cardiology was the Organizing Secretary for the said conference.</p>

				Quiz was conducted by Dr.Vivek G, MD,DM, Assistant Professor, for M.D. Medicine Students in Memory of Dr. Late Arun V. Kusugal.
Manipal Cardiology Update -2013	MIT Auditorium, Manipal	1 <sup>st</sup> Nov	2012	Dr.Padmakumar R, Professor & Head, Dept. of Cardiology, was the Chairman and Dr. RanjanShetty, Associate Professor of Cardiology was the Organizing Secretary for the said conference. Quiz was conducted by Dr.Vivek G, MD,DM, Assistant Professor, for M.D. Medicine Students in Memory of Dr. Late Arun V. Kusugal.
South Zone Interventional Council Conference - 2014 (SICCON-2014)	Chaitya Hall Hotel Valley View International, Manipal	25 <sup>th</sup> and 26 <sup>th</sup> January 2014		SOUTH ZONE INTERVENTIONAL COUNCIL CONFERENCE - 2014” on 25 <sup>th</sup> and 26 <sup>th</sup> January 2014 at Valley View, Manipal. Eminent speakers from all over India were participated and delivered lectures on various topics. Apart from this, lot of live cases were transmitted from Cardiology Cath Lab, Kasturba Hospital, Manipal, to conference Venue.

All faculties regularly attend various scientific programs like conferences, workshops, symposia and CMEs. In the past 3 years faculties have presented papers and chaired sessions in National and International Conferences. Department conducted 3 CME in last one year.

#### **10. Participation / contribution of teachers to the academic activities including teaching , consultancy and research**

All the faculties are actively involved in teaching PG students. Approximately more than 50 articles have been published in the past three years from the department and 3-4 more are in process.



### 11. Collaboration with other departments/institutions, at the State, National and International levels and their outcome during the past two years

We are conducting a community based School Health Study – visiting various schools in Udupi district and conducting a survey of prevalence of rheumatic and congenital heart disease from class I to 10<sup>th</sup> Standard.

### 12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty during the last 3 years.

#### Ongoing

Category	Number
Funded research projects	6
Non-funded research projects	8
PhD research projects	2
PG research projects	0
UG research projects	0

#### Last 3 years (2012-14) :

	2012	2013	2014
Completed Funded Research Project	0		
Completed non funded Research Project	0		
Completed Ph.D Research Projects	0		
Completed PG Research Projects	0		
Completed UG Research Projects	0		
Publications: International	31	28	34
National	0		
Books - HEALTHY HEART” - An Aid to Staying Fit	0		
Chapters in books	0		
Conference International Presentations	-		
National	0		

#### Ongoing Funded Research Projects:

Sl.No.	Title	Principal Investigator	Total Amount Received
1	Reference: A Multicenter, Randomized, Double blind, Placebo-Controlled Study to Evaluate Cardiovascular Outcomes Following	Dr.Padmakumar	RS. 1,85,940 (TILL DATE)

	Treatment with Alogliptin in Addition to Standard of Care in Subjects with Type 2 Diabetes and Acute Coronary Syndrome . <b>SYR-322_402</b>		
2.	A multicenter, randomized, double-blind, parallel group, active-controlled study to evaluate the efficacy and safety of both aliskiren monotherapy and aliskiren/enalapril combination therapy compared to enalapril monotherapy, on morbidity and mortality in patients with chronic heart failure (NYHA Class II-IV). Protocol No: CSPP100F2301	Dr.Padmakumar	Rs. 1,13,400
3	Protocol no: CACZ885M2301 Ref: A randomized, double-blind, placebo-controlled, event driven trial of quarterly subcutaneous canakinumab in the prevention of recurrent cardiovascular events among stable post-myocardial infarction patients with elevated hsCRP	Dr.TomDevasia	Rs. 2,10,762
4	Protocol no: EPICOR Ref: The Epicor Asia Long Term Follow up of antithrombotic management patterns in acute coronary syndrome patients in Asia	Dr.TomDevasia	Rs. 32,800
5	Reference: A prospective, multicenter, post marketing surveillance study to evaluate the safety and effectiveness of the Superia- Sirolimus Eluting Coronary Stent system (SSECSS) implanted during routine clinical practice in India.	Dr.RanjanShetty	Rs. 46,800
5	Protocol Title: "TUXEDO-India: A Prospective, Single Blind, Multi-centre, Randomized Trial to Compare the TAXUS Element <sup>TM</sup> Coronary Stent System against the XIENCE Prime Coronary Stent System in the treatment of Diabetic Patients Population in India."	Dr. RanjanShetty	Rs. 7,81,422

**Non Funded Research Projects:**

Sl.No.	Title	Faculty Involved
1	Efficacy and Safety of a Combination therapy of Statin and Krill oil, Statin and Niacin versus statin alone in Dyslipidemia: A Randomized, Open, Comparator Study	Dr.TomDevasia
2	A comparative Evaluation of the Safety and Tolerability of the combination Aspirin and Prazugrel with Aspirin and Clopidogrel in Post PCI Status	Dr.TomDevasia
3	Efficacy and Safety of Tadalafil versus Sildenafil in Pulmonary Arterial Hypertension: A Prospective Randomised Opened Label Comparator Study	Dr.TomDevasia
4	Ultrasound usability testing (PHILIPS INITIATIVE): Hand Held Instrument for Malaria Detection (PHILIPS INITIATIVE)	Dr.RanjanShetty Dr.G.Vivek
5	School Health Study	Dr.RanjanShetty Dr.G.Vivek
6	Tuxedo Trial CO-PI (Neonatal Heart Disease Screening trial)	Dr.RanjanShetty Dr.G.Vivek
7	Wireless Ultraportable Mobile Technology Based Electrocardiogram system CO-PI (Philip Initiative)	Dr.G.Vivek
8	BOP – Portable Echo User requirement and Analysis (Philip Initiative)	Dr.G.Vivek

**On going PhD Research Projects**

Sl.No.	Title	Name of the Student	Name of the Guide
1	Effects of Exercise Training on Function and Quality of Life in Pulmonary Hypertension – Randomized Controlled Trial	Mr.Abraham Samuel Babu	Dr.Padmakumar
2	A comparative Study on descending aortic blood flow in intrauterine growth restriction and normal function by Non invasive fetal Echocardiography	Mr. Krishnanand	Dr.RanjanShetty (Co-guide)
3	Evaluation of causative factors for Amlodipine induced pedal edema and demonstration resolution Amlodipine induced pedal edema by cilnidipine.	Mr. KiranKumarShetty	Dr.RanjanShetty (Guide)

4	Assessment of Factors associated with major Adverse Cardiac Event after undergoing percutaneous transluminal coronary angioplasty	Dr.PrasadN.Shetty	Dr.TomDevasia (Guide)
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## Publications

### 2012

1. A rare coronary artery anomaly: duplication of right coronary artery with separate ostium on 64-row multidetector computed tomography., Prakashini K, Smiti S, Binu TR, Padmakumar R. Singapore Med J. 2012 Jun;53(6):e125-7.
2. Effects of Combined Early In-Patient Cardiac Rehabilitation and Structured Home-based Program on Function among Patients with Congestive Heart Failure: A Randomized Controlled Trial. Babu AS, Maiya AG, George MM, Padmakumar R, Guddattu V. Heart Views. 2011 Jul;12(3):99-103. doi: 10.4103/1995-705X.95064.
3. Predictors of warfarin-induced bleeding in a South Indian cardiology unit. Nekkanti H, Mateti UV, Vilakkathala R, Rajakannan T, Mallayasamy S, Padmakumar R. Perspect Clin Res. 2012 Jan;3(1):22-5. doi: 10.4103/2229-3485.92303.
4. Pulmonary arteriovenous malformation presenting as a large aneurysm: Kamath SG, Vivek G, Borkar S, Ramachandran P. BMJ Case Rep. 2012 Oct 12;2012. doi:pii: bcr2012006811. 10.1136/bcr-2012-006811.
5. Ectatic left circumflex artery with fistula to coronary sinus presenting with inferior wall myocardial infarction: Vivek G, Naha K, Ramachandran P, Rajagopal KV. BMJ Case Rep. 2012 Jul 9;2012. doi:pii: bcr2012006473. 10.1136/bcr-2012-006473.
6. Tuberculous mediastinal abscess as a paradoxical reaction in an immunocompetent individual: Naha K, Vivek G, Ramachandran P, Kansal N, Gupta MK, Rajagopal KV, Dasari S, Dias LS.: BMJ Case Rep. 2012 Apr 23;2012. doi:pii: bcr0120125498. 10.1136/bcr.01.2012.5498.
7. Pattern of Angiotensin-converting enzyme inhibitors induced adverse drug reactions in South Indian teaching hospital: Mateti UV, Nekkanti H, Vilakkathala R, Rajakannan T, Mallayasamy S, Ramachandran P. N Am J Med Sci. 2012 Apr;4(4):185-9. doi: 10.4103/1947-2714.94945.
8. Predictors of warfarin-induced bleeding in a South Indian Cardiology Unit : Nekkanti H, Mateti UV, Vilakkathala R, Rajakannan T, Mallayasamy S, Padmakumar R. Perspect Clin Res. 2012 Jan;3(1):22-5. doi: 10.4103/2229-3485.92303.

9. Magazine R, Shetty R, Goneppanavar U, Mohapatra AK. Idiopathic clubbing confined to lower limb digits and idiopathic pulmonary fibrosis: an unusual association. *Case Rep Pulmonol.* 2012;2012:684285. doi: 10.1155/2012/684285. Epub 2012 Oct 22. PubMed PMID: 23133780; PubMed Central PMCID: PMC3485489.
10. Nayak K, Shetty RK, Vivek G, Pai UM. Pericardial cyst: a benign anomaly. *BMJ Case Rep.* 2012 Sep 4;2012. pii: bcr0320125984. doi: 10.1136/bcr-03-2012-5984. PubMed PMID: 22949119.
11. Gupta MK, Shetty R, Pande N, Shenoy P. Isolated bilateral upper lobar anomalous pulmonary venous connection--a rare anomaly confirmed on CT imaging. *BMJ Case Rep.* 2012 May 8; 2012. pii: bcr1120115112. doi: 10.1136/bcr.11.2011.5112. PubMed PMID: 22605855.
12. Use of a coronary sinus guiding sheath for placement of right ventricular lead in abnormal venous anatomy: a report of 2 case : Vivek G, shetty RK, Pai UM, Nayak K. *BMJ Case Reports* 2012;10.1136/bcr-2012-007687
13. Delayed presentation of scorpion sting with cardiogenic shock.: Dias LS, Vivek G, Manthappa M, Acharya R. *BMJ Case Reports* 2012;10.1136/bcr-2012-006827
14. A mysterious visitor to the heart.: Shetty R, Vivek G, Nayak S, Dias L. - *BMJ Case Reports* 2012;10.1136/bcr-03-2012-6005
15. Carotid stenting in a nonagenarian patient with symptomatic carotid stenosis: ShettyRK, Vivek G, Gupta MK, NayakK, PaiU, DiasL, NahaK, Acharya R. *AMJ* 2012,5,10,528---530. <http://dx.doi.org/10.4066/AMJ.2012.1278>
16. Unilateral inverse moustache sign. Shetty RK, Vivek G, Nayak K, Dias LS. *BMJ Case Reports* 2012;10.1136/bcr.03.2012.6095.
17. Fetal Ebstein's anomaly. Shetty RK, VivekG, Nayak K, Pai UM. *BMJ Case Reports* 2012;10.1136/bcr-2012-006446
18. Ketosis-prone type 2 diabetes mellitus in a patient with Sheehan's syndrome: a rare convergence of two distinct endocrine entities: Naha K, VivekG, Dasari S, Prabhu M. *BMJ Case Reports* 2012;10.1136/bcr.11.2011.5131
19. An unusual cause for hyponatremia with seizures: Naha K, Vivek G, Dasari S, Manthappa M, Dias L, Acharya R *BMJ Case Reports* 2012;10.1136/bcr.09.2011.4784.
20. Use of cautery as a therapeutic modality in skin metastasis due to renal cell carcinoma Dias LS, Vivek G, Rao ACK, Acharya R *BMJ Case Reports* 2012;10.1136/bcr-2012-006760.
21. Pericardial cyst: a benign anomaly: Nayak K, Shetty RK, Vivek G, Pai UM. *BMJ Case Reports* 2012;10.1136/bcr-03-2012-5984,
22. Incidentally detected Monckeberg's sclerosis in a diabetic with coronary artery disease: Naha K, Shetty RK, Vivek G, Reddy S. *BMJ Case Rep.* 2012 Dec 4;2012. doi:pii: bcr2012007376. 10.1136/bcr-2012-007376.

23. Adenocarcinoma of lung masquerading as systemic auto-immune disease. Naha K, Thakare S, VivekG,Prabhu M. *BMJ Case Reports* 2012;10.1136/bcr.02.2012.5822.
24. Vitamin B12 deficiency: an unusual cause for recurrent generalised seizures with pancytopenia: Naha K, Dasari S, Vivek G, Prabhu M. *BMJ Case Reports* 2012;10.1136/bcr-2012-006632
25. A well centered chest X ray is a must for studying the relation between central line and trachea Umesh G, RanjanS,Jasvinder K, Nanda S..*ClinMonitComput.* 2012 Apr;26(2): author reply 143-4. Epub 2012 Mar 1.
26. Isolated bilateral upper lobar anomalous pulmonary venous connection--a rare anomaly confirmed on CT imaging Gupta MK, Shetty R, Pande N, Shenoy P *BMJ Case Rep.* 2012 May 8;2012. doi:pii: bcr1120115112. 10.1136/bcr.11.2011.5112. PubMed PMID: 22605855.
27. Idiopathic clubbing confined to lower limb digits and idiopathic pulmonary fibrosis: an unusual association: Magazine R, Shetty R, Goneppanavar U, Mohapatra AK. *Case Rep Pulmonol.* 2012;2012:684285. doi: 10.1155/2012/684285. Epub 2012 Oct 22. PubMed PMID: 23133780; PubMed Central PMCID: PMC3485489.
28. Pharmaceutical care: Need of the hour in India.:Tumkur A, Muragundi PM, Shetty R, Naik A J *Young Pharmacists* 2012;4:282-6.
29. An Unusual Cause of Chronic Cough Case Reports in Pulmonology: Rahul Magazine, CharuduttSambhaji, RanjanShetty, UmeshGoneppanavarKommerell's Diverticulum: Volume 2012, Article ID 512790, 3
30. Health-related Quality of Life Measurement Muragundi P, Tumkur A, Shetty R, Naik A. *J Young Pharm.* 2012 Jan;4(1):54. PubMed PMID: 22523462; PubMed ; Central PMCID: PMC3326784.
31. A well centered chest X ray is a must for studying the relation between central line and trachea: Umesh G, RanjanS,Jasvinder K, Nanda S *ClinMonitComput.* 2012 Apr;26(2): author reply 143-4. Epub 2012 Mar 1.

### **2013**

1. Successful bowel surgery at hemoglobin 2 g/dL without blood transfusion.Padmakumar R, Pai M, Farish S, Rajeev J, Sanjeev T, Sreevalsan TV, Sheetal B, Sooraj YS, Rowther SS.*World J Gastrointest Surg.* 2013 Aug 27;5(8):252-5. doi: 10.4240/wjgs.v5.i8.252.
2. A review of ongoing trials in exercise based rehabilitation for pulmonary arterial hypertension.Babu AS, Padmakumar R, Maiya AG.*Indian J Med Res.* 2013 May;137(5):900-6. Review.



3. Evaluating exercise capacity in patients with pulmonary arterial hypertension. Babu AS, Myers J, Arena R, Maiya AG, Padmakumar R. *Expert Rev Cardiovasc Ther.* 2013 Jun;11(6):729-37. doi:
4. 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". Babu AS, Arena R, Maiya AG, Padmakumar R, Guazzi M. *Pulm Circ.* 2013 Jan;3(1):121-2. doi: 10.4103/2045-8932.109927.
5. Shetty R, Vivek G, Naha K, Tumkur A, Raj A, Bairy KL. Excellent tolerance to cilnidipine in hypertensives with amlodipine - induced edema. *N Am J Med Sci.* 2013 Jan; 5(1):47-50. doi: 10.4103/1947-2714.106203. PubMed PMID: 23378956; PubMed Central PMCID: PMC3560139.
6. Shetty R, Vivek G, Naha K, Nayak K, Goyal A, Dias LS. Correlation of epicardial fat and anthropometric measurements in Asian-Indians: A community based study. *Avicenna J Med.* 2012 Oct; 2(4):89-93. doi: 10.4103/2231-0770.110739. PubMed PMID: 23826555; PubMed Central PMCID: PMC3696206.
7. Right-sided infective endocarditis presenting with purpuric skin rash and cardiac failure in a patient without fever: Ranjan K Shetty, G Vivek, Kushal Naha, SreedivyaBekkam *BMJ Case Reports* published online 25 January 2013, doi:10.1136/bcr-2012-007841
8. Primary abdominal nocardiosis masquerading as tubercular pelvic inflammatory disease in an immunocompetent individual: Kushal Naha, SowjanyaDasari, G Vivek, MukhyapranaPrabhu. *BMJ Case Reports* published online 25 January 2013, doi:10.1136/bcr-2012-008076
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10. *Scand J Infect Dis.* 2012 Jul;44(7):544-7. doi: 10.3109/00365548.2012.657233. Epub 2012 Mar Naha K, Shetty RK, Vivek G, Magazine R. An unusual and deadly cause for massive haemoptysis. *BMJ Case Rep.* 2013 Feb 13;2013. pii: bcr2012008160. doi:10.1136/bcr-2012-008160. PubMed PMID: 23413292.
11. Vivek G, Shetty RK, Nayak SS, Girisha KM, Naha K. Prenatal diagnosis of absent pulmonary valve confirmed by autopsy. *BMJ Case Rep.* 2013 Jan 30;2013. pii:bcr2012007997. doi: 10.1136/bcr-2012-007997. PubMed PMID: 23371040.
12. Shetty R, Vivek G, Thakkar A, Mishra SS, Joseph V, Devraj MG, Tumkur A, PaiU. Experience with biodegradable polymer coated sirolimus-eluting coronary stent system in "real-life" percutaneous coronary intervention: 24-month data from the Manipal-s registry. *J ClinDiagn Res.* 2013 Sep; 7(9):1959-63. doi:



- 10.7860/JCDR/2013/5915.3369. Epub 2013 Sep 10. PubMed PMID: 24179909; PubMedCentral PMCID: PMC3809648.
13. Shetty R, Vivek G, Pai U, Nayak K. A rare variant of single coronary artery presenting with angina. *J Cardiovasc Dis Res.* 2013 Mar; 4(1):74-5. doi:10.1016/j.jcdr.2013.02.010. Epub 2013 Feb 27. PubMed PMID: 24023481; PubMed Central PMCID: PMC3758089.
  14. Shetty RK, Madken M, Naha K, Vivek G. Successful management of native-valve Brucella endocarditis with medical therapy alone. *BMJ Case Rep.* 2013 Jun 21; 2013.pii: bcr2013200086. doi: 10.1136/bcr-2013-200086. PubMed PMID: 23813523.
  15. Shetty RK, Tumkur A, Bhat K, Chacko B. An unusual cause of cardiac arrest in a hospitalized patient. *J PharmacolPharmacother.* 2013 Jan;4(1):72-3. doi:10.4103/0976-500X.107692. PubMed PMID: 23662032; PubMed Central PMCID: PMC3643351.
  16. Shetty RK, Vivek G, Naha K, Rau NR, Nayak K. Quadrivalvular heart disease of mixed congenital and rheumatic aetiology with concomitant ostiumsecundum atrial septal defect and Ebstein's anomaly of the tricuspid valve. *BMJ Case Rep.* 2013May 3; 2013. pii: bcr2012008032. doi: 10.1136/bcr-2012-008032. PubMed PMID:23645697.
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## 2014

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6. 'A rare cause of angina': multiple coronary cameral fistulae simulating coronary artery disease in a 71-year-old man.Agarwal S, Prasad R, Devasia T, Kareem H.BMJ Case Rep. 2014 Apr 28;2014. pii: bcr2014204608. doi: 10.1136/bcr-2014-204608
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17. Unexplained extensive calcification of the venae cavae extending into the right atrium causing partial obstruction of the tricuspid valve. Kareem H, Devasia T, Nayak K, Agarwal S. *BMJ Case Rep.* 2014 Jun 5;2014. pii: bcr2014204070. doi: 10.1136/bcr-2014-204070.
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20. A giant 'sausage' thrombus in the left ventricle in a patient with preserved ventricular function. Kareem H, Devasia T, Pai VB, Minocha K. *BMJ Case Rep.* 2014 May 8;2014. pii: bcr2014204362. doi: 10.1136/bcr-2014-204362.
21. 'A rare cause of angina': multiple coronary cameral fistulae simulating coronary artery disease in a 71-year-old man. Agarwal S, Prasad R, Devasia T, Kareem H. *BMJ Case Rep.* 2014 Apr 28;2014. pii: bcr2014204608. doi: 10.1136/bcr-2014-204608.
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24. 'A dancing ball in the heart': false tendon of the left ventricle simulating a mass lesion. Kareem H, Devasia T. *BMJ Case Rep.* 2013 Oct 16;2013. pii: bcr2013201115. doi: 10.1136/bcr-2013-201115.
25. Evaluation of subtle left ventricular systolic abnormalities in adult patients with hypertrophic cardiomyopathy. Shetty R, Samanth J, Nayak K, Sarang A, Thakkar A. *J Clin Diagn Res.* 2014 Dec;8(12):MC05-9. doi: 10.7860/JCDR/2014/10185.5287. Epub 2014 Dec 5.
26. Early and six-month assessment of bi-ventricular functions following surgical closure of atrial septal defect. Vijayvergiya R, Singh J, Rana SS, Shetty R, Mittal BR. *Indian Heart J.* 2014 Nov-Dec;66(6):617-21. doi: 10.1016/j.ihj.2014.10.411. Epub 2014 Nov 10
27. Correlation of serum homocysteine levels with the severity of coronary artery disease. Shenoy V, Mehendale V, Prabhu K, Shetty R, Rao P. *Indian J*

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28. Persistent left superior vena cava in association with sinus venosus defect type of atrial septal defect and partial pulmonary venous return on 64-MDCT. Disha B, Prakashini K, Shetty RK. *BMJ Case Rep.* 2014 May 21;2014. pii: bcr2013202999. doi: 10.1136/bcr-2013-202999
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  30. Painless aortic dissection, presenting as dyspnoea. Poondru RR, Monigari N, Shetty RK, Vivek G. *BMJ Case Rep.* 2014 Feb 10;2014. pii: bcr2014203623. doi: 10.1136/bcr-2014-203623
  31. Revisiting non-compaction cardiomyopathy through a case with cyanosis and complete heartblock: Achyut Sarkar, Imran Ahmed, Arindam Pande, GS Naveen Chandra. *Journal of Cardiovascular Echography / Apr-Jun 2014 / Vol 24. issue 2*
  32. Large congenital coronary arteriovenous fistula between the left main coronary artery and right superior vena cava, associated with aneurysmal dilatation of the left main coronary artery: rare case report: G. S. Naveen Chandra, Achyut Sarkar, Arindam Pande. *Cardiology in the Young* 2014 Jul 15:1-3.
  33. Vascular Inflammation and Angiographic Severity of Coronary Artery Disease in Young Asian Indians I: Imran Ahmed, Achyut Sarkar, Arindam Pande, Naveen Chandra GS, Shailesh Patil, Chanchal Kundu. *Journal of cardiovascular disease research* 05/2014; 5(1):15-21.
  34. Non-invasive estimation of pulmonary vascular resistance in patients of pulmonary hypertension in congenital heart disease with unobstructed pulmonary flow: Arindam Pande, Achyut Sarkar, Imran Ahmed, Naveen Chandra G S, Shailesh Kumar Patil, Chanchal Kumar Kundu, Rahul Arora, Ajanta Samanta. *Annals of Pediatric Cardiology* 05/2014; 7(2):92-97.

## 12. Placement record of the past students & the contribution of the department to aid Student Placements.

Nil

## 13. Plan of action of the department for the next five years.

Our department is planning to upgrade the teaching facilities by purchasing the newer Technologies like Intravascular Ultrasound, FFR, Rotablator and Electrophysiology Lab.

## UROLOGY

### 1. Faculty profile – adequacy and competency of faculty:

There are five full time teaching staff as per MCI requirement. All faculty are competent to teach and perform surgeries.

#### Faculty List :

Sl.No	Name	Qualification	Designation	Teaching Experience in years
1	Dr.PadmarajHegde	MBBS, MS,MCh	Professor .& Head	15
2	Dr.MJoseph Thomas	MBBS, MS,MCh,DNB	Professor	24
3	Dr.ArunKumar Chawla	MBBS, MS,MCh DNB	Addl . Prof.	13
4	Dr.Venkatesh K S	MBBS, MS,DNB	Assoc. Prof.	5
5	Dr.SunilPillai B	MBBS, MS, MCh	Assoc. Prof.	5
6	Dr N Karthickeyan	MBBS, MS	Senior Registrar	-
7	Dr B M Zeeshan Hameed	MBBS, MS	Senior Registrar	-
8	Dr Vishal C Ratkal	MBBS, MS	Senior Registrar	-
9	Dr.Avinash U K	MBBS, MS	Senior Registrar	-
10	Dr.Nishant K	MBBS, MS	Senior Registrar	-
11	Dr.Kalyan Gudaruru	MBBS, MS	Senior Registrar	-
12	Dr.Aseem Kapadia	MBBS, MS	Senior Registrar	-
13	Dr.Saurabh Gaur	MBBS, MS	Senior Registrar	-

Category	Sanctioned	Filled
Teaching staff	06	05
Senior Registrar	08	08

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 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 MCI and the department strictly complies with the laid down requirement. Periodic modification of curriculum is done by Board of studies (Board of studies decided to increase the number of theory papers from (a) 3 to 4 and (2) question pattern 10 short questions).

### 4. Trends in the success and drop-out rates of students during the past two years

100% pass and no dropout student was noted.

Course	Pass Percentage	Dropout Rate
MCh - 2013	100%	0
MCh - 2014	100%	0

### 5. Learning resources of the departments - library, computers, laboratories and other resources

Our Department Library has 107 books, Seminar room with Computers with internet facility is available to the postgraduate students in the workplace.

### 6. Modern teaching methods practiced and use of ICT in teaching – learning

The department extensively uses like Power Point and multi-media for teaching. In addition the facilities of the clinical skills lab are made use of as and when needed.

### 7. Participation of teachers in academic and personal counseling of students

Students are guided by Faculty for clinical research, paper publication and clinical teaching.

### 8. Details of faculty development programmes and teachers who have been benefited during the past two years

All faculty regularly attend various scientific programmes like Conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 20 such programmes.

### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in Clinical research / clinical study



### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

Regular discussion with Nephrology department for planning Renal Transplants.

Meetings with Radiology department for Uro Radiology discussions

Regular Video Conferencing of Journal Club with Dr.GurunandaRao, Robert Wood Johnson Hospital , New Jersey, USA.

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

**Ongoing: 2013-14**

Category	No.
Funded research projects	Nil
Non-funded research projects	Nil
PhD research projects	Nil
PG research projects	Nil
UG research projects	Nil

**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		-	-	-
Completed UG research projects		-	-	-
Publications	International	-	6	8
	National	7	1	-
Books		-		
Chapters in books		1	1	-
Conference presentations	International	2	3	3
	National	2	5	11

## JOURNAL PUBLICATIONS

### Year 2012

#### National– Indexed

1. Dr.PadmarajHegde, “ Midureteric knotted stent removed by percutaneous access, Urology Annals, Year 2012, Vol.4, Issue 2, (P No.106-107)
2. Dr.PadmarajHegde, “Mullerianosis of the Urinary Bladder”.Indian Journal of Urology,Year 2012, Vol.28, Issue 2, (P 206-207).
3. Dr.ArunChawla, “Less pain is no gain: Is minimal invasive tension-free vaginal tape- Secure effective in the treatment of women with stress urinary incontinence? ”Indian Journal of Urology.2012 Volume 28, Issue 1
4. Dr.ArunChawla, “Genitourinaryhistoplasmosis in post-renal transplant patient: Diagnostic dilemma”. Ind.J Urol. 2012 Vol.28, Issue 3
5. Dr.Venkatesh K.S, “Renal Fungal bezoar owing to Geotrichumcandidium – A case report”, Journal of Medical Mycology Case Reports.- 2012

#### Non indexed

1. Dr.Venkatesh K.S, .”EosinophilicCystitis : A Rare cause of hematuria in children”. CaseReports in Nephrology. Vol.2012:ID710230
2. Dr.Venkatesh K.S, “Primary Hydatid cyst of kidney and ureter with hydatiduria in a laboratory worker” – A case report. Case Reports in Nephrology. Vol.2012:ID596923

## BOOKS, CHAPTERS IN BOOKS

1. Dr.ArunChawla, Contributed one chapter on “Comprehensive Textbook of Sexual Medicine“- 2<sup>nd</sup> Edition, Quality of Life Research & Development foundation 2012

## Conference Presentations

### Paper

1. Dr.ArunChawla, attended&presented 3 papers titled 1) Management of Calyceal Diverticulum – Our Experience 2) Safety, Efficacy and Cost –Effectiveness of TOT with. customized mesh and customized needles 3) Role of PCR in the diagnosis of Male Genital Tuberculosis at 11<sup>th</sup>Asian Congress of Urology held at Pattaya, Thailand from 22<sup>nd</sup>August to 26<sup>th</sup> August 2012
2. Dr.SunilPillai B, attended and presented a paper titled “ Simultaneous Bilateral Tubeless Percutaneous Nephrolithotomy : A Manipal Experience “ on 3<sup>rd</sup>& 4<sup>th</sup> November 2012 at the Annual State Urological Conference KUACON 2012 ,Gulbarga.

### Poster

1. Dr.Venkatesh K S, attended & presented a Poster titled “ ILEAL URETER – MANIPALEXPERIENCE ” at 11<sup>th</sup> Asian Congress of Urology held at Pattaya, Thailand from 22<sup>nd</sup> to 26<sup>th</sup> August 2012.
2. Dr.Dilip Kumar Mishra, attended& presented a poster titled “Bilateral Simultaneous Percutaneous Nephrolithotomy“ in the Urological Society of India Annual Conference in Bangalore from 4th to 8th January 2012

### Guest Lectures / Chairing Sessions / Keynote Address

1. Dr.JosephThomas Chaired a scientific session and conducted academic programmes at the National Conference of the Urological Society of India held at Bangalore from 4th to 8th January 2012.
2. Dr.Joseph Thomas conducted the Mock Examination of the Urological Society of India at SGPGI, Lucknow for the Senior Residents in Urology in India from 17<sup>th</sup> to 19<sup>th</sup> April 2012.
3. Dr. Joseph Thomas delivered a lecture on “ Diagnostic dilemmas and solutions in genitourinary tuberculosis “ in the joint session of Urological Society of India and the American Urological Association during the Annual Conference of American Urological Association on the 19<sup>th</sup> to 23<sup>rd</sup> May 2012 at Atlanta, Georgia, USA.
4. Dr.Joseph Thomas conducted the Urological Society of India and American Urological Association Instructional Course for Senior Residents in Urology at Hyderabad from 16th to 18th August 2012
5. Dr.Joseph Thomas Participated as a Faculty in the West Zone Urological Society of India at Lonovola, 14th to 16th September 2012
6. Dr.JosephThomas Conducted the Mock Examination of the Urological Society of India at Amrita Institute of Medical Sciences at Kochi for the Senior Residents in Urology in India from 22nd to 23rd September 2012
7. Dr.PadmarajHegde attended& Chaired a session in the Urological Society of India Annual Conference in Bangalore from 4th to 8th January 2012
8. Dr.PadmarajHegde Chaired a session in Southzone Urology Conference held on 12th to 14th July 2012, Hyderabad.
9. Dr.ArunChawla Chaired a session in Southzone Urology Conference, Hyderabad, 12th to 14th July 2012

### List of Conferences / Seminars / Symposia / Workshops ATTENDED:

#### International

1. Dr.ArunChawla, attended the Clinical Research meeting in Taipei.Taiwan, from 10th to 12th April 2012

#### National

1. Dr.Venkatesh K S , attended Southzone Urology Conference, Hyderabad, 12th to 14th July 2012
2. Dr.Venkatesh K S , attended “ Laser Prostatectomy “ training Workshop at Delhi on 17<sup>th</sup> to 18<sup>th</sup> March 2012 .

#### Awards/Recognitions:

1. Dr.Dilip Kumar Mishra, has been awarded JUA Fellowship in Robotic & Laparoscopic Surgery at Dept.of Urology, Tokyo Medical University Hospital, Tokyo, Japan for the year 2012.
2. Dr.Pritam Sharma has won the Ist Prize in Bijapur Uro Quiz held FRM 3<sup>rd</sup>& 4<sup>th</sup> November 2012at Annual State Urological Conference ( KUACON 2012 ) at Gulbarga .
3. Dr.B.M.Zeeshan Hameed has been awarded Travel Grant Award by UAE Cancer Congress at Dubai, UAE between 11<sup>th</sup> to 13<sup>th</sup> October 2012.

#### Highlight of the activities during 2012 - Nil

#### Placement details:

1. Dr.Padmaraj Hegde, has been awarded the Membership of National Academy of Medical Sciences in the Convocation held at Chennai
2. Dr Joseph Thomas, serving as Editorial Board Member of Indian Journal of Urology
3. Dr.Arun Chawla, serving as Reviewer of Indian Journal of Urology & Urology Annals.

### JOURNAL PUBLICATIONS

#### Year 2013

#### International- Indexed

1. Dr.Padmaraj Hegde,Chhabra S , Singhal P. “ Primary small cell carcinoma of the urinary bladder “ – mini –review of the literature. Asian Pac J Cancer Prev.2012-13 (8)3549-53. PMID 23098433

2. Dr Arun Chawla , Dilip Mishra, Pritam Sharma . “Renal artery aneurysm with an ovarian vein thrombosis “ BMJ Case Rep.2013 doi:10.1136/bcr-2013-201490
3. Dr Arun Chawla, Zeeshan Hameed, Dilip Mishra, Vidya Monappa .Adrenal inflammatory myofibroblastic tumour -Case Report. BMJ Case Rep.2013, doi:10.1136/bcr-2013-010122 .
4. Dr.Arun Chawla, Dilip Mishra, Rolika Bansal, Medha Chundru, “Rare sites of delayed metastasis in renal cell carcinoma – Case Report “” BMJ Case Rep 2013.doi:10.1136/bcr-2013-009971
5. Dr.Sunil Pillai, Dilip Mishra, Venkatesh G, Arun Chawla, Padmaraj Hegde, Joseph Thomas. “Tubeless simultaneous bilateral percutaneous nephrolithotomy: Safety, feasibility and efficacy in an Indian setting”. Int J Urology.2013 Nov.28.doi:10.1111/iju.12352(Epub ahead of print)
6. Dr.Sunil Pillai , Padmaraj Hegde, Giridhar Venkatesh, Bhalaguru Iyyan. “Ureteral injury after posterior lumbar discectomy with interbody screw fixation- Case Report”. BMJ Case Rep 2013.doi:10.1136/bcr-2013-200383 .

#### **National– Indexed**

1. Dr.Pritam Sharma, Bhalaguru Iyyan, Sunil Pillai, Padmaraj Hegde, “Rings at the wrong place : Acute penile incarceration , A case report and review of treatment Options”- Asian Journal of Medical Science, Volume No.4 (2013)

#### **BOOKS, CHAPTERS IN BOOKS- Nil**

#### **Conference Presentations**

##### **International**

##### **Paper**

1. Dr.Padmaraj Hegde, presented 2 papers titled “Management concerns and outcome of Emphysematous Pyelonephritis “ and “Our Initial experience with Manipal Penile clamp for male incontinence “ at the European Urological Association Conference held at Milan, Italy from 14<sup>th</sup> to 20<sup>th</sup> March 2013.
2. Dr.Arun Chawla, presented papers titled “ Percutaneous management of Calyceal diverticulum “ at the European Urological Association Conference held at Milan, Italy from 14<sup>th</sup> to 20<sup>th</sup> March 2013.
3. Dr.Arun Chawla, presented Video on “ Non Transacting techniques in Bulbar strictures “ in the Workshop on “ Urethral Reconstruction “ from 5<sup>th</sup> to 8<sup>th</sup> November 2013 in University College London Hospitals.

### **National**

1. Dr.Dilip Kumar Mishra , presented paper titled “ An innovative method to remove a vesical calculus fixed to bladder wall” under the Category Ideas and Innovation in the KUACON + SZUSICON conference held from 11 – 13<sup>th</sup> July 2013 at Mysore.
2. Dr.Bhalaguru Iyyan, Podium presentation titled “ Safety and Efficacy of Total tubeless percutaneous Nephrolithotomy in 210 patients – Our experience ” in the Urological Society of India Conference held at Pune from 16<sup>th</sup> to 20<sup>th</sup> January 2013.
3. Dr.Pritam Sharma, Podium presentation titled “ Trans Obturator tapes in female stress urinary incontinence ” in the Urological Society of India Conference held at Pune from 16<sup>th</sup> to 20<sup>th</sup> January 2013.
4. Dr.Pritam Sharma, presented a paper in the P G Symposium titled “ Radiotherapy and Hormone therapy in the treatment of Carcinoma prostate ”in the South Zone Urology Conferenceheld at Mysore from 12<sup>th</sup> to 14<sup>th</sup> July 2013.
5. Dr.Praveen Kumar, presented paper titled “ Outcome of different open surgical technique in Vesicovaginal fistula “ in the Urological Society of India National Conference which was held at Pune from 16<sup>th</sup> January to 20<sup>th</sup> January 2013.

### **Guest Lectures / Chairing Sessions / Keynote Address**

1. Dr Padmaraj Hegde, gave a talk “ Urological Problems in Aging Male ”at World Anti aging and Regenerative Conference at Bangkok 5<sup>th</sup> to 7<sup>th</sup> September 2013.

### **List of Conferences / Seminars / Symposia / Workshops ATTENDED:**

#### **International**

1. Dr.Joseph Thomas, attended the Annual Conference of the American Urological Association at San Diego, USA from 3<sup>rd</sup> to 8<sup>th</sup> May 2013.
2. Dr.Pritam Sharma, attended the 11<sup>th</sup> meeting of European Urology Residents Education Programme (EUREP) held from 13<sup>th</sup> – 18<sup>th</sup> September 2013, at Prague, Czech Republic .

#### **National**

1. Dr.Joseph Thomas, attended Urological Society of India National Conference which was held at Pune from 16<sup>th</sup> January to 20<sup>th</sup> January 2013.
2. Dr. Joseph Thomas , attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.

3. Dr. Joseph Thomas, attended the Annual Conference of Federation of Ethics Review Committee of India at PSG Medical College, Coimbatore from 7<sup>th</sup> to 9<sup>th</sup> November 2013 .
4. Dr. Padmaraj Hegde, attended Urological Society of India National Conference which was held at Pune from 16<sup>th</sup> January to 20<sup>th</sup> January 2013.
5. Dr. Padmaraj Hegde, attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal
6. Dr. Arun Chawla, attended & chaired 2 sessions in Endourology and Reconstructive Urology in Urological Society of India National Conference which was held at Pune from 16<sup>th</sup> January to 20<sup>th</sup> January 2013.
7. Dr. Arun Chawla, attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.
8. Dr. Venkatesh attended Urological Society of India National Conference which was held at Pune from 16<sup>th</sup> January to 20<sup>th</sup> January 2013.
9. Dr. Venkatesh attended “Reconstructive Urology Workshop ” on 20 – 21<sup>st</sup> July 2013 at Pune
10. Dr. Venkatesh attended “ Lap Endofusion Workshop ” at Cochin – August 2013
11. Dr. Venkatesh, attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal
12. Dr. Sunil Pillai B, attended USI Annual Conference, 16<sup>th</sup> January to 20<sup>th</sup> January 2013 at Pune.
13. Dr. Sunil Pillai, attended “ The Amrita International CME & Workshop on Uro Oncology” at Uro Oncology Division, Department of Urology, Amrita Institute of Medical Sciences, Kochi, Kerala from 24<sup>th</sup> May 2013 to 26<sup>th</sup> May 2013.
14. Dr. Sunil Pillai, attended the “ KUACON + SZUSICON from 11 – 13<sup>th</sup> July 2013 at Mysore.
15. Dr. Sunil Pillai, attended “ Reconstructive Urology Workshop” by the Society of Genitourinary Reconstructive Surgeons, under the aegis of Urological Society of India, West Zone Chapter from 20 – 21<sup>st</sup> July 2013 at Pune .
16. Dr. Sunil Pillai, attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.
17. Dr. Dilip Kumar Mishra, attended “ The Amrita International CME & Workshop on Uro Oncology” at Uro Oncology Division, Department of Urology, Amrita Institute of Medical Sciences, Kochi, Kerala from 24<sup>th</sup> May 2013 to 26<sup>th</sup> May 2013.



18. Dr.Dilip Kumar Mishra, attended KUACON + SZUSICON from 11 – 13<sup>th</sup> July 2013 at Mysore.
19. Dr.Dilip Kumar, attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.
20. Dr.Bhalaguru Iyyan, attended the “ Reconstructive Urology Workshop” by the Society of Genitourinary Reconstructive Surgeons , under the aegis of Urological Society of India, West Zone Chapter from 20 – 21<sup>st</sup> July 2013 at Pune .
21. Dr. Pritam Sharma, attended the “ Reconstructive Urology Workshop” by the Society of Genitourinary Reconstructive Surgeons , under the aegis of Urological Society of India, West Zone Chapter from 20 – 21<sup>st</sup> July 2013 at Pune.
22. Dr.Pritam Sharma, attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.
23. Dr.Praveen Kumar attended the “ Reconstructive Urology Workshop” by the Society of Genitourinary Reconstructive Surgeons , under the aegis of Urological Society of India, West Zone Chapter from 20 – 21<sup>st</sup> July 2013 at Pune
24. Dr. Praveen Kumar, attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.
25. Dr.Praveen Kumar done 15 days Observorship in Laparoscopic Urology ( Dec..2013)under Prof. George Abraham, Cochin.
26. Dr.Vishal Ratkal, attendedMaster Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.
27. Dr.Avinash U K,attended Master Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.
28. Dr.Nishant K, attendedMaster Class on Urology Armamentarium on 6<sup>th</sup> October 2013 at Manipal.

#### **Awards/Recognitions:**

1. Dr.Arun Chawla, won Ist prize for Video on “ Non Transacting techniques in Bulbar strictures “ in the Workshop on “ Urethral Reconstruction “ from 5<sup>th</sup> to 8<sup>th</sup> November 2013 in University College London Hospitals.
2. Dr.Arun Chawla, won first prize in KUACON Uroquiz at Karnataka Urology Conference held at Mysore June 2013.
3. Dr.Arun Chawla, is Convenor of Subspeciality USI Instructional course on Reconstructive Urology for USICON 2014, at New Delhi
4. Dr.Pritam Sharma, Senior Registrar, awarded “USI Olympus International travelling fellowship ”at the USICON Sept. 2013 held at Pune.

5. Dr.Praveen Kumar, Senior Registrar, has been selected by the Karnataka Urological Association for “Devon Travelling Fellowship ” during South Zone Urology Conference held at Mysore in June 2013.
6. Dr. Praveen Kumar won “ Urology Quiz” conducted by Karnataka Urology Association in Yenapoya Medical College , Mangalore in May 2013.

### **Highlight of the activities during 2013**

Department of Urology has organized **Master Class on Urology Armamentarium** on 6<sup>th</sup> October 2013 at Manipal.

### **Important Visitors / Guest Lectures**

Dr Aneesh Srivasthava, Prof. & Head of Urology, SGPGI, Lucknow, Conducted teaching programme for Urology Registrars in April 2013.

### **Year 2014 - Publications**

#### **International - Indexed**

1. Chawla A. “Refluxing supernumerary kidney : easy to overlook”. BMJ Case Rep.2014 Oct.6;2014. PMID:25287391.
2. Chawla A. Mishra DK . “Secondary Vesical Calculus in Female” .Case Report. Austin Journal of Urology 2014;1(3):2
3. Chawla A.Mishra DK. “Cervical Cancer as a Silent Killer : A rare case report with review of literature “Journal of Cancer Research and Therapeutics. Aug.06,2014.
4. Arun Chawla, Vishal Ratkal, Dilip Kumar Mishra, Suprita Krishna .” Renal replacement lipomatosis of the right kidney “. BMJ Case Rep 2014.doi:10.1136 /bcr-2014-208701
5. Dr.Venkatesh Seetharam, Zeeshan BM Hameed, Shaila Bhat Talengala, Joseph Thomas. “Bilateral cryptorchidism with *bilateral* synchronous abdominal testicular germ cell tumour”. BMJ Case Rep.2014
6. Pillai S, Mishra D, Sharma P, Venkatesh G, Chawla A, Hegde P, Thomas J. “Tubeless simultaneous bilateral percutaneous nephrolithotomy :safety, feasibility and efficacy in an Indian setting”. Int. J Urol. 2014 May,21(5)497-502 doi:10.1111/iju.12352
7. Mishra D, Pillai S . “Response to Editorial Comments to Tubeless simultaneous bilateral percutaneous nephrolithotomy :Safety, feasibility and efficacy in an Indian setting “. Int.J Urol 2014; May 21(5):504

8. Karthickeyan Naganathan, Sunil Bhaskara Pillai . “Whitmore’s disease : an uncommon urological presentation”. BMJ Case Report 2014.doi:10.1136.

## BOOKS, CHAPTERS IN BOOKS: Nil

### Conference Presentations :

#### International

1. Dr.Padmaraj Hegde, Podium presentation titled “ Urological Problems in Aging Male” at the 32<sup>nd</sup> Year International Conference of International Medical Sciences Academy from 11<sup>th</sup> -12<sup>th</sup> October 2014 at Bangkok, Thailand.
2. Dr.Arun Chawla, presented 2 Videos in the conference and chaired the session
3. in the International Conference IMSACON 2014 held at Bangkok on 11<sup>th</sup> & 12<sup>th</sup> October 2014.
4. Dr.Dilip Kumar Mishra, presented paper on “Tubeless percutaneous nephrolithotomy for lower calyceal stones is a cost effective and ideal management in Indian setting – A single centre study” at 2<sup>nd</sup> ESD “Experts in Stone Disease” Conference at Cape Town, South Africa, from 10<sup>th</sup> -13<sup>th</sup> December, 2014

#### National

1. Dr.Dilip Kumar Mishra, presented video on “Modified TVT-O: Short and Midterm results” at USICON 2014, Jan.2014, New Delhi
2. Dr.Arun Chawla, presented a Video on “ Supine PCNL” in South zone USI Conference held at Kochin in the month of August 2014
3. Dr.B M Zeeshan Hameed , paper presentation titled “ Surgical Management and Outcome of Peyronies disease ” at the Urological Society of India Annual Conference held in Delhi from 30<sup>th</sup> January to 2<sup>nd</sup> February 2014.
4. Dr.B M Zeeshan Hameed, paper presentation titled “ Percutaneous Nephrolithotomy Haemorrhagic complications managed by transarterial embolization “ at the Urological Society of India Annual Conference held in Delhi from 30<sup>th</sup> January to 2<sup>nd</sup> February 2014.
5. Dr.N.Karthickeyan, presented the paper titled “ SAFETY AND EFFICACY OF PCNL IN PAEDIATRIC POPULATION-MANIPAL EXPERIENCE “ and Poster on “ Whitmore`s disease –Unusual Urological presentation“ at the Urological Society of India Annual Conference held in Delhi from 30<sup>th</sup> January to 2<sup>nd</sup> February 2014.
6. Dr.N.Karthickeyan, presented Poster -titled “Rare presentation of synchronous metastasis of cancer stomach to bladder ” and Podium titled a) “ Safety , Efficacy &

- cost effectiveness of modified TOT “ b)”Outcome of BMG Urethroplasty in female patients “ at the SZUSICON held at Kochi on 8<sup>th</sup>, 9<sup>th</sup>& 10<sup>th</sup> August 2014.
7. Dr.Vishal C Ratkal , presented the Poster -titled “ Castleman’s disease – A Diagnostic challenge to the Urologist in the Retroperitoneum” at the SZUSICON held at Kochi on 8<sup>th</sup>, 9<sup>th</sup>& 10<sup>th</sup> August 2014.
  8. Dr.Nishant K, presented the Poster -titled “Giant Pseudocyst- Delayed Presentation after Percutaneous Nephrolithotomy ” at the SZUSICON held at Kochi on 8<sup>th</sup>, 9<sup>th</sup>& 10<sup>th</sup> August 2014
  9. Dr.N.Karthickeyan , presented P G Symposium titled “ Evaluation of NMIBC ” at KUACON held at Bangalore on 12<sup>th</sup> to 14<sup>th</sup> September 2014.
  10. Dr.Vishal C Ratkal , presented the Poster ( Podium) titled “ Case of Non-Hodgkins Lymphoma in young male ” at KUACON held at Bangalore on 12<sup>th</sup> to 14<sup>th</sup> September 2014.
  11. Dr.Avinash U K, presented the Paper ( Podium) titled “ Predictors for the successful conservative management in patients with Emphysematous Pyelonephritis ” at KUACON held at Bangalore on 12<sup>th</sup> to 14<sup>th</sup> September 2014

#### **Guest Lectures / Chairing Sessions / Keynote Address**

1. Dr.Venkatesh Krishnamurthy, Prof. & Head of Urology , NU Hospital, Bangalore, - Teaching programme & MCh Mock Exam on 1.6.2014
2. Dr C S Ratkal , Prof. & Head ofUrology , NU (Institute of Nephro Urology) Hospital, Bangalore, - Teaching programme &MCh Mock Exam, 1.6.2014

#### **Conferences / Seminars / Symposia / Workshops attended :**

##### **International**

1. Dr. Joseph Thomas was a Moderator for the American Urological Association Conference held in Orlando, USA between 16<sup>th</sup> to 21<sup>st</sup> May 2014 and chaired a session on 17<sup>th</sup> May 2014.
2. Dr Venkatesh K S, attended AUA Middle East Summit Workshop “Penile Reconstructive Surgery” held at Abudhabi on 17<sup>th</sup>& 18<sup>th</sup> September 2014.
3. Dr.Dilip Kumar Mishra , attended 12th Asian Congress of Urology at Kish Islands, Iran from 5-9 December, 2014.
4. Dr.B M Zeeshan Hameed attended the European Residents education Program - EUREP held from 5<sup>th</sup> – 10<sup>th</sup> September 2014, at Prague, Czech Republic.

## National

1. Dr. Joseph Thomas, attended the National Conference of the Urological Society of India held at New Delhi from 29<sup>th</sup> January 2014 to 2<sup>nd</sup> February 2014.
2. Dr. Padmaraj Hegde, attended the National Conference of the Urological Society of India held at New Delhi from 29<sup>th</sup> January 2014 to 2<sup>nd</sup> February 2014.
3. Dr. Arun Chawla, attended and organized an Instructional course on “Urethral Reconstructive Surgery” at USICON 2014 (30<sup>th</sup> January to 2<sup>nd</sup> February 2014) New Delhi
4. Dr. Venkatesh K S attended USICON 2014 at Delhi from 29<sup>th</sup> January 2014 to 2<sup>nd</sup> February 2014.
5. Dr. Dilip Kumar Mishra, Chaired a podium session on Urolithiasis at USICON 2014, New Delhi, 29<sup>th</sup> January 2014 to 2<sup>nd</sup> February 2014.
6. Dr. Sunil Pillai B, attended Workshop “Key to Keyhole course” at Lakeshore Hospital, Kochi from June 10<sup>th</sup> to 14<sup>th</sup> 2014.
7. Dr. Arun Chawla, Chaired a Prize session on “Ideas and Innovations in South Zone Conference Kochin, Aug. 2014
8. Dr. Arun Chawla, as Guest Faculty for Teaching purpose from 17<sup>th</sup> September to 23<sup>rd</sup> September 2014 at Institute of Health Sciences, Nepal
9. Dr. Arun Chawla, attended KUACON 2014 and chaired Prof. P Venugopal Oration and Mysogus endowment lecture Sept. 2014
10. Dr. Dilip Kumar Mishra, attended KUACON-2014, Karnataka urology association conference held at Bangalore in September 2014.
11. Dr. Sunil Pillai B, attended Workshop “Vascular Access Course” at CEMAST, Mumbai on 6<sup>th</sup> & 7<sup>th</sup> October 2014
12. Dr. Venkatesh K S, attended Robotic Uro Oncology Workshop at Kokila Ben Reliance Hospital, Mumbai on November, 1<sup>st</sup> & 2<sup>nd</sup> 2014.
13. Dr. Dilip Kumar Mishra, attended 2<sup>nd</sup> ESD “Experts in Stone Disease” Conference at Cape Town, South Africa on December 10-13, 2014
14. Dr. B M Zeeshan Hameed, attended USICON 2014 at Delhi from 29<sup>th</sup> January 2014 to 2<sup>nd</sup> February 2014.
15. Dr. N Karthickeyan, attended USI-AUA board review course conducted at Hyderabad Aug. 2014
16. Dr. Nishant K, attended USI-AUA board review course conducted at Hyderabad, Aug. 2014
17. Dr. Avinash U K, attended USI-AUA board review course conducted at Hyderabad, Aug. 2014

18. Dr.Vishal C Ratkal, attended USI-AUA board review course conducted at Hyderabad Aug.2014
19. Dr.Nishant K , attended KUACON held at Bangalore on 12<sup>th</sup> to 14<sup>th</sup> September 2014.
20. Dr.N Karthickeyan, participated in T.S.Jairam CUE 2014 on “BPH & Renal calculi” held in Bangalore on 12<sup>th</sup> September 2014
21. Dr.Nishant K, participated in T.S.Jairam CUE 2014 on “BPH & Renal calculi” held in Bangalore on 12<sup>th</sup> September 2014
22. Dr.Avinash U Kparticipated in T.S.Jairam CUE 2014 on “BPH & Renal calculi” held in Bangalore on 12<sup>th</sup> September 2014
23. Dr.Vishal C Ratkal,participated in T.S.Jairam CUE 2014 on “BPH & Renal calculi” held in Bangalore on 12<sup>th</sup> September 2014

### Academic Awards

1. Dr.Arun Chawla elected as President, KUA , for the year 2015-16
2. Dr Arun Chawla, selected as Ambassador for Australian Award for second consecutive year
3. Dr .Arun Chawla, Won Ist prize in Bijapur Uroquiz during KUACON 2014 at Bangalore in Sept.2014
4. Dr.Arun Chawla, awarded Best Video for “Non Transecting Urethroplasty “at Pen Recon held at Ahmedabad Sept.2014
5. Dr.Arun Chawla, Guest Visiting Teaching Faculty at B P Koirala Institution of Medical Sciences, Sept.2014
6. Dr.Dilip Kumar Mishra, Won 1<sup>st</sup> prize in BijapurUroquizduring KUACON-2014 at Bangalore, Karnataka IN Sept.2014
7. Dr.Dilip Kumar Mishra, Won Manipal Best Published Paper Award for the paper “Tubeless simultaneous bilateral percutaneous nephrolithotomy:Safety, feasibility and efficacy in an Indian setting.International Journal of Urology (2014) 21, 497–502” in KUACON-2014 at Bangalore.
8. Dr.Dilip Kumar Mishra, received theAward of the UAA Youth Section Fellowships for the year 2014and attended the 12<sup>th</sup> Asian Congress of Urology at Kish Islands, Iran from 5-9 December, 2014.
9. Dr.B M Zeeshan Hameed , received Ist Place in Gulbarga MCh Award Paper presentation titled “Uncontrolled Bleeding Following PCNL Managed By Trans-arterial Embolization: The Risk Factors And The Outcome” at 32nd Annual Conference of Karnataka State chapter (KSC Asicon 2014) from 14th -16th February 2014

10. Dr.B M Zeeshan Hameed, was awarded EUREP Travelling Fellowship by European Association of Urology held from 5<sup>th</sup> – 10<sup>th</sup> September 2014, at Prague, Czech Republic.
11. Dr.Vishal C Ratkal Won Best Poster Award for “ Testicular non hodgkin’s Lymphoma in young adult “ held at Bangalore in September 2014

**Ongoing projects : Nil**

## **12. Placement record of the past students and the contribution of the department to aid student placements .**

Nil

## **13. Plan of action of the department for the next five years**

1. To make department one of the finest Teaching and most sought of department for Urological training.
2. To have regular CMEs and Workshops once in six months
3. To plan for Robotic Urology surgery



## NEUROLOGY

### 1. Faculty profile - adequacy and competency of faculty

There are two teaching faculty members who meet the requirements for MBBS, Dental and also for postgraduate training as per the requirements of the regulatory bodies. Dr. Radhakrishnan, who heads the department, is a world renowned neurologist and epileptologist with over three decades of teaching experience, over 300 research publications and more than 5000 citations. All faculty members are competent.

#### Faculty list:

Sl. No.	Name	Qualification	Designation	Teaching Experience in years
1	Dr. K Radhakrishnan	MD, DM, FAMS, FAAN, FANA	Professor & Head	30
2	Dr. Aparna R Pai	MBBS, MD, DM	Assoc. Prof.	10
3	Dr. Amith Sitaram	MBBS, DNB, DM	Asst. Prof.	3
4	Dr. Nimish Vijay Kumar	MBBS, MD	Senior Registrar	-
5	Dr. Vinay Agarwal	MBBS, MD	Senior Registrar	-
6	Dr. Anirudh Kulkarni	MBBS, MD	Itations.	-
7	Dr. Harisuthan T	MBBS, MD	Senior Registrar	-
8	Dr. Aparajita Chatterjee	MBBS, MD	Senior Registrar	-
9	Dr. Radhika Nair	MBBS, MD	Senior Registrar	-

Category	Sanctioned	Filled
Teaching staff	03	03
Senior Registrar	06	06

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 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 in concordance with MCI guidelines and the department strictly complies with the laid down requirement. Periodic modification of curriculum is done by Board of

studies (Board of studies decided to increase the number of theory papers from (a) 3 to 4 and (2) question pattern to 2+1 to 10 short questions).

#### 4. Trends in the success and drop-out rates of students during the past two years

Course	Year	%age	Drop out
D.M. (Neurology)	2012-13	100%	Nil
	2013-14	100%	Nil

#### 5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with over 150 books and online access to most indexed Journals. Computers with internet facility are available to the Postgraduate students in the workplace.

#### 6. Modern teaching methods practiced and use of ICT in teaching – learning

The department extensively uses AV aids like Power Point and multi-media for teaching. In addition the facilities of the clinical skills lab are made use of as and when needed.

#### 7. Participation of teachers in academic and personal counseling of students

PG students have constant access to staff members for personal interaction and mentoring

#### 8. Details of faculty development programmes and teachers who have been benefited during the past three years

1. Dr.Aparna R Pai – Attended summer school of Myology 2012 in Paris.  
Attended and completed botulism toxin training course in August 2012 at Manila, Philippines  
Attended and completed the course on Epilepsy “Indian Epilepsy School in December 2012 at Cochin
2. Dr.VijayChandran – Attended Teaching course in Movement disorder 2012 in Goa.
3. Dr.RohitPai – Observership in Epilepsy at SreeChitraTirunal institute for Medical Sciences and Technology, Trivandrum. Observership in Pediatric Neurology at Trivandrum Medical College

#### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG and PG students. Three articles have been published in the past two years from the department.

### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

The post graduates are posted in Neuropathology postings for final year PGs at NIMHANS, Bengaluru for histopathology, Neurophysiology, Neuro radiology.

Dr. ApoorvaPouranik MD, DM; Professor & Head, Department of Neurology, Mahatma Gandhi Medical College, Indore, MP visited on December 2014 for Speech Conference

Dr. Aparna R Pai - Selected as one of three participants from India to attend Super EMG Tokyo Conference held at Teikyo University, Tokyo, Japan, in July 2013

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

1. Language disturbance in stroke
2. Neurological complications of medical illness like
  - a) Osmotic demyelination
  - b) Reversible posterior leukoencephalopathy
3. Lacunar stroke
4. Late onset epilepsy

#### Ongoing

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	2
PG research projects	0
UG research projects	0

#### Last 3 years (2012-14) :

	2012	2013	2014
Completed funded research projects	0	0	0
Completed non-funded research projects	0	0	2
Completed PhD research projects	0	0	0
Completed PG research projects	0	0	0
Completed UG research projects	0	0	0
Publications			
	International	6	0
			1

	National	1	2	3
Books		0	0	0
Chapters in books		1	0	5
Conference presentations	International	0	0	6
	National	1	1	10

### **Publications:**

#### **2012**

1. Halprashanth DS, Chandran V, Rao SN, Aparna RP. Rapid neurological deterioration in a patient with hepatitis A infection. *JClinNeurosci*. 2012 Aug;19(8):1149; answer 1199.
2. Chandran V, Pal PK. Quality of life and its determinants in essential tremor. *ParkinsonismRelatDisord*. 2013 Jan;19(1):62-5.
3. Saini J, Bagepally BS, Bhatt MD, Chandran V, Bharath RD, Prasad C, Yadav R, Pal PK. Diffusion tensor imaging: tract based spatial statistics study in essential tremor. *ParkinsonismRelatDisord*. 2012 Jun;18(5):477-82.
4. Chandran V, Pal PK. Essential tremor: beyond the motor features. *Parkinsonism Relat Disord*. 2012 Jun;18(5):407-13.
4. Bagepally BS, Bhatt MD, Chandran V, Saini J, Bharath RD, Vasudev MK, Prasad C, Yadav R, Pal PK. Decrease in cerebral and cerebellar gray matter in essential tremor: a voxel-based morphometric analysis under 3T MRI. *J Neuroimaging*. 2012 Jul;22(3):275-8.
5. Gopee Krishnan, ShivaniTiwari, Aparna R. Pai and Surya N. Rao – Variability in aphasia following subcortical hemorrhagic lesion – *Annal of Neurosciences – Vol. 19, No.4, 2012 Oct.12: (2-4)*

#### **PhD Thesis**

1. Dr. Rao S N, Dr. Aparna R Pai - Aim: Estimation of pro inflammatory enzyme chitotriosidase as a novel marker and its correlation with IL-6 and p53 in patients with GuillainBarre Syndrome.
2. Dr. Rao S N – Co guide – Dr. SenthilKumaran D – Effectiveness and feasibility of a task and context based exercise program in stroke patients – a randomized controlled trial

#### **2014**

1. Balan S, Bharathan SP, Vellichiramal NN, Sathyan S, Joseph V, Radhakrishnan K, Benerjee M. Genetic association analysis of ATP binding cassette protein family

reveals a novel association of ABCB1 genetic variants with epilepsy risk, but not with drug-resistance. *PLOS One* 2014;9:e89253.

2. Rathore C, Rao MB, Radhakrishnan K. National epilepsy surgery program: Realistic goals and pragmatic solutions. *Neurol India* 2014;62:124-9.
2. Radhakrishnan K, Rathore C, Rao MB. National epilepsy surgery support activity. *Ann Indian AcadNeurol* 2014;17 (Supplement 1):S132-3
4. Radhakrishnan K. An overview of pre-surgical evaluation. *Ann Indian AcadNeurol* 2014;17 (Supplement 1):S37-9

#### **PhD Thesis:**

- 1) Student: Dr. Radhika Nair; Guides: Dr. K. Radhakrishnan & Dr. AmithSitharam. SERUM ALBUMIN AS A PREDICTOR OF FUNCTIONAL OUTCOMES FOLLOWING ACUTE ISCHEMIC STROKE.
- 2) Student: Dr. AparajithaChatterjee; Guides: Dr. K. Radhakrishnan. CLINICAL, ELECTROGRAPHIC AND NEUROIMAGING CHARACTERISTICS OF A COHORT OF PATIENTS WITH DRUG-RESISTANT EPILEPSIES.

#### **12. Placement record of the past students and the contribution of the department to aid studentplacements**

Nil

#### **13. Plan of action of the department for the next five years**

- a. To develop sub-specialties in Neurology like Epilepsy Stroke, and Movement disorders
- b. To set up a Regional Stroke Registry.
- c. To develop collaborative research and technology development ventures with departments like molecular biology, biomedical engineering and physiology.

## NEUROSURGERY

### 1. Faculty profile –adequacy and competency of faculty

There are four teaching faculty members who meet the requirements for MBBS and Dental and also for postgraduate training as per the requirements of the regulatory bodies. All faculty members are competent.

#### Faculty list

Sl. No.	Name	Qualification	Designation	Teaching Experience in years
1	Dr GirishMenon	MBBS,MS, DNB	Professor and Head	15
2	Dr Sunil Upadhyaya	MBBS, MS, MCh	Assoc.Prof.	4
3	Dr.Vinod Kumar	MBBS, MS, MCh	Assoc.Prof.	4
4	Dr.Lakshmi Prasad	MBBS, MS, MCh	Asst. Prof.	
5	Dr.Pradeep Kumar Tripathi	MBBS, MS	Senior Registrar	
6	Dr.Lakshman I K	MBBS, MS	Senior Registrar	
7	Dr. Rajesh P Nair	MBBS, MS	Senior Registrar	
8	Dr.SibhiGanapathy	MBBS, MS	Senior Registrar	
9	Dr.AjayHegde	MBBS, MS	Senior Registrar	
10	Dr.Anmol N	MBBS, MS	Senior Registrar	

Category	Sanctioned	Filled
Teaching staff	03	04
Senior Registrars	06	06

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure No. HS 1 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 in concordance with MCI guidelines and the department strictly complies with the laid down requirement. Periodic modification of curriculum is done by Board of studies (Board of studies decided to increase the number of theory papers from (a) 3 to 4 and (2) question pattern to Two long essays and 10 short questions).

#### 4. Trends in the success and drop-out rates of students during the past two years

Course	Year	%age	Drop out
M.Ch (Neurosurgery)	2012-13	100%	Nil
	2013-14	100%	Nil

#### 5. Learning resources of the departments – library, computers, laboratories and other resources.

The department has well-equipped library with over 150 books and online access to most indexed Journals. Computers with internet facility are available to the Postgraduate students in the workplace.

#### 6. Modern teaching methods practiced and use of ICT in teaching – learning

The department extensively uses AV aids like Power Point and multi-media for teaching. In addition the facilities of the clinical skills lab are made use of as and when needed.

#### 7. Participation of teachers in academic and personal counseling of students

PG students have constant access to staff members for personal interaction and mentoring

#### 8. Details of faculty development programmes and teachers who have been benefited during the past two years

All faculties regularly attend various scientific programmes like conferences, workshops, CMEs.

#### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG (MBBS, BPT, BOT) and PG students.

#### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

The post graduates are posted in Neurosurgical departments in institutes of international repute as observers during their course. Neuropathology postings for final year PGs at NIMHANS, Bengaluru /Christian Medical College, Vellore for histopathology and hands-on brain dissection is part of the curriculum. PGs are also posted in the department of Neuroradiology for exposure to cutting edge information and procedures in neurodiagnostics and neurointervention.



### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

#### Ongoing :

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	
PG research projects	2
UG research projects	1

#### Last 3 years (2010-12):

		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		0	0	0
Completed UG research projects		0	0	0
Publications	International	1	0	4
	National	1	2	0
Books		0	0	0
Chapters in books		0	0	0
Conference presentations	International	0	3	0
	National	1	0	5

In the past 2years the department has focused on 2 key areas (1) Spinal minimally surgery in particular surgery for CV junction anomalies and spondylolisthesis.(2) Endoscopic cranial dual spinal surgery

Both the above areas have shown rapid advances hence we have been able to perform many procedures which were not being done earlier. Our results in these procedures are comparable with reputed centresworld wide.

New procedures being performed in the last 2 years not being performed earlier.

#### Cranial:

- Supra ciliaryminicraniotomy for clipping of aneurysms and excision of sellar suprasellar lesions
- Microanastomosis for cerebral ischemia

- Surgery for excision of AVMs
- Awake craniotomy for surgery in eloquent areas
- Endoscopic third ventriculostomy
- Endoscopic colloid cyst excision
- Endoscopic decompression of pituitary tumours

#### Spine and Peripheral Nerves

- Endoscopic and microscopic lumbar disc excision
- Transpedicularstabilisation with interbody fusion
- Cervical anterior and transpedicularstabilisation procedures
- Cervical disc replacement
- Cervical laminoplasty
- C1-2 lateral mass – stabilization
- Brachial plexus injury repair

We have established an algorithm for the management of traumatic cervical spine injury which has been accepted and published in the Indian journal of orthopaedics.

We have developed a modification of the axial presacralstabilisation procedure and is awaiting publication.

A proforma to study hypertensive bleeds and the use of ventricular drains and streptokinase in these procedures has been instituted.

### **Publications:**

#### **2012**

1. Dr.ArjunShetty – Management of Traumatic atlanto axial instability – a retrospective study of eight patients – Jan. 2012 – Indian Journal of Orthopaedics – 46(1): 86-91
2. Corynebacteriumminutissimum infecting pseudomeningocele: A rare case.Eshwara VK, Munim F, Shetty A, Gupta A, Nitin J, Mukhopadhyay C. J MicrobiolImmunol Infect. 2012 Sep 22.doi:pii: S1684-1182(12)00158-2.
3. Management of traumatic atlanto-axial instability: A retrospective study of eight cases ArjunShetty, Abhishek Kini,1 A Gupta,2 Anil Kumar,2 and S Upadhyaya2 Indian J Orthop. 2012 Jan-Feb; 46(1): 86–91.,doi: 10.4103/0019-5413.91641 PMCID: PMC3270612
4. Prasad GL, Borkar SA, Subbarao KC, Suri V, Mahapatra AK. Primary spinal cord glioblastomamultiforme: A report of two cases. Neurol India. 2012 May-Jun;60(3):333-5.
5. Singh G, Sharma MC, Agarwal S, Prasad GL, Mishra S, Singh MM, Garg A, Suri V, Sarkar C. Epithelial-myoepithelial carcinoma of the lacrimal gland: a rare case. Ann DiagnPathol. ;16(4):292-7.

6. Prasad GL, Borkar SA, Subbarao KC, Sharma MC, Mahapatra AK. Neurenteric cyst of the ventralcervicomedullary region. J PediatrNeurosci. 2012 Sep;7(3):188-190.
7. Prasad GL, Borkar SA, Satyarthee GD, Mahapatra AK. Split cord malformation with dorsally located bony spur: Report of four cases and review of literature. J PediatrNeurosci. 2012 Sep;7(3):167-70.
8. BahuleyanB ,Menon GR, Sharma M & Nair S Exophytic third nerve schwannoma mimicking a mesial temporal intra-axial lesion: case report Childs NervSyst 2012;28 (3: 481-484
9. Menon G. PatilA,AbrahamM,Nair S Central Neurocytomas – review of an institutional series of 33 cases Neurosurgery Quarterly 22(4):213-219, November 2012.
10. KrishnakumarK, Menon G, Kumar JK, Nair S Supratentorialepidermoid tumors : evaluation of management options and long term outcome. Neurosurgery Quarterly 22(4): 233-244 , 2012

## 2013

1. Sylvian cistern arachnoid cyst - a rare cause of precocious puberty. PediatrNeurosurg  
PediatrNeurosurg 2013 21;49(6):365-8. Epub 2014 Nov 21.  
Sunil Upadhyaya, Rajesh Nair, Vinod Kumar, BhavnaNayal, ArjunShetty  
Department of Neurosurgery, Kasturba Medical College, Manipal University, Manipal, India.
2. Borkar SA, Prasad GL, Subbarao KC, Sharma MC, Mahapatra AK. Giant cell glioblastomain the pediatric age group: report of two cases. J PediatrNeurosci 2013 Jan-Apr;8: 38-40.
3. Borkar SA, LakshmiPrasad G, Sharma BS, Mahapatra AK.  
Remote site intracranial haemorrhage: a clinical series of five patients with review of literature.Br J Neurosurg Dec 2013;27(6):735-738.
4. Borkar SA, Prasad GL, Gupta DK, Sinha S, Mahapatra AK. Compound elevated skull fracture: a clinical series of three patients with a review of the literature. Turk Neurosurg. 2013;23(4):514-7.
5. Prasad GL,Sinha S, Kale SS, Nehra A, Mahapatra AK, Sharma BS. Traumatic brachial plexopathies-Analysis of post surgical functional and psychosocial outcome. Ind J Neurotrauma 2013 Dec;10:72-79.

6. Gopalakrishnan CV, Ansari KA, Nair S, Menon G. Long term outcome in surgically treated posterior fossa epidermoids [ClinNeurolNeurosurg](#). 2014 Feb;117:93-9. doi: 10.1016/j.clineuro.2013.11.025. Epub 2013 Dec 7.
7. Patil A, Menon G, Nair S. Unruptured anterior communicating artery aneurysms presenting as seizures. Report of three cases with review of literature . Asian Journal of Neurosurgery Vol. 8, Issue 3, July-September 2013
8. Gayatri P, Menon G, Suneel PR Effect of operating microscope light on brain temperature during craniotomy. *JNeurosurgAnesthesiol*. 2013 Jul;25(3):267-70. doi:10.1097/ANA.0b013e3182894a01.

## 2014

- 1) Menon G, Jayanand S, Krishnakumar K, Nair S. EC-IC bypass for cavernous carotid aneurysms: An initial experience with twelve patients. *Asian J Neurosurg* 2014;9:82-8.
- 2) G Menon, A Thomas, M Nzey, B Luke Intracerebral aneurysmal bleed presenting as acute subdural haemorrhage *S Afr Med J* 2014;104(1). DOI:10.7196/SAMJ.7737
- 3) Gayatri P, Misra S, Menon G, Arulvelan A, Thulaseedharan J V Transesophageal Echocardiographic Evaluation of Left Ventricular Systolic and Diastolic Function in Response to 20% Mannitol and 3% Hypertonic Saline Infusion in Neurosurgical Patients Undergoing Craniotomy *J NeurosurgAnesthesiol* 2014;26:187–191
4. Endoscopic excision of a lateral ventricular epidermoid-A case report of a novel technique.  
*Int J Surg Case Rep*  
*Int J Surg Case Rep* 2014 18;5(12):1135-8. Epub 2014 Nov 18.  
ArjunShetty, Rajesh Nair, PradeepTripathi, Vinod Kumar, Sunil Upadhyaya
5. Intraspinallydatidosis with retroperitoneal extension: an uncommon location.  
*BMJ Case Rep*  
*BMJ Case Rep* 2014 8;2014. Epub 2014 Sep 8.  
YashdeepSarma, Rajesh Nair, SankalpSiddharth, Vinod Kumar, Sunil Upadhyaya, Arjun Shetty
6. Prasad GL, Kumar R, Suri V. Primary cerebellopontine angle choroid plexus papilloma in a child: a rare occurrence. *Neurology India* 2014 Jul-Aug;62(4):438-9.
7. Prasad GL, Sinha S. Spinal intraduralsubpialangioliipoma. Case report and review of literature. *SurgNeurolInt* 2014 Nov;5:164.

## 12. Placement record of the past students and the contribution of the department to aid student placements

Nil

## 13. Plan of action of the department for the next five years

The department intends to develop into a stand alone Neurosurgical specialty unit which would cater to all subspecialties related to Neurosurgery and integrate the allied specialities as well (Eg: Neuroanaesthesia, Neurophysiotherapy, Neuro Radiology etc).

The departments plan for the future involves progress and development in all three fronts  
A, Patient care and clinical services

B. Research

C. Post graduate training

### **Patient care and clinical services**

Operative procedures being performed have more than doubled over the last 2years. However the department intends to ramp up surgeries being performed to about 120 cases a month over the next 2years

The department envisages a sub specialty oriented development. The thrust areas for the initial two years would be A. surgery for epilepsy B. surgery for stroke C. Spinal instrumentation D. Surgery for Brachial plexus and other peripheral nerve problems and E. Minimally invasive surgery. Junior specialists have been offered the option of undergoing training in specialitycentres to niche areas in neurosurgery. Once trained the surgeon would be allowed to set up independent subspeciality units within the department.

### **Research**

The faculty and residents in the department will develop collaborative research work with other allied department in the institute and seek both intra and extramural funding. The department has already embarked on a project to develop a Traumatic Brain injury registry as well as a Stroke registry.

### **Academics**

The department has a well-established teaching program with regular seminars and clinical teaching sessions. In addition we intend to organize periodic workshops and CMEs . A microsurgery training lab is being planned along with the cadaver lab both for the faculty and the residents.

## NEPHROLOGY

### 1. Faculty profile - adequacy and competency of faculty 4 nos.

There are 3 teaching faculty members and 2 additional non medical teachers for the technical courses. The teaching faculty members are qualified and having adequate experience as required by regulatory bodies all are competent.

#### Faculty List

Sl. No	Name	Qualification	Designation	Teaching experience in years
1	Dr Ravindra Prabhu	MBBS, MD, DM, DNB	Professor & Head	14
2	Dr Shankar Prasad N	MBBS, MD, DNB, DM	Assoc. Prof.	3
3	Dr. Dharshan Rangaswamy	MBBS,MD (Paed) DM (Nephro.)	Asst. Prof.	1
4	Dr. Srinivas Kosuru	MBBS, MD	Senior Registrar	-
5	Dr. Rajeevalochana Parthasarathy	MBBS, MD	Senior Registrar	-
6	Dr. Mohit Madken	MBBS, MD	II year Registrar	-
7	Dr. Aswani Srinivas	MBBS, MD	II Year Registrar	-
8	Dr. Srikant	MBBS, MD	I Year Registrar	-
9	Dr. Sindhu Kazha	MBBS, MD	I Year Registrar	-

Category	Sanctioned	Filled
Teaching staff	03	03
Senior Registrars	06	06

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 for details

### 3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

Course started 3 years back only and curriculum is new.

- Regular Inter departmental exchanges being done.
- Regular evaluation.
- Daily review of histopathology slides.

#### 4. Trends in the success and dropout rates of students during the past two years

Final Examinations are yet to be held for DM course.

#### 5. Learning resources of the departments - library, computers, laboratories and other resources

- Separate ward and OPD for bedside teaching.
- Library 120 books.
- KMC Library – available on computers in department ward, OPD (Total 7 computers).
- LABS – Ward side lab, hemodialysis lab.
- Seminar room – computer, OHP, Projector.
- Microscope, Centrifuge.

Our Department Library has 120 books.

7 computers, 2 laboratories, Seminar room – Microscope and Centrifuge are available.

New research instruments

- ABG & Electrolytes machine.
- NGAL machine
- TRU BP
- 24 hour ambulatory BP machine
- Ultrasound machine (Change in point 6)

#### 6. Modern teaching methods practiced and use of ICT in teaching – learning

Teaching methods – Seminars, case discussion, journal review, bedside rounds, Interdepartmental meets, conference attendance, and presentation of papers.

Supervised learning of procedures under ultrasound guidance.

#### 7. Participation of teachers in academic and personal counseling of students

Day to day interaction with students with supervised learning, guidance for thesis doing ward procedures OPD procedures such as central venous catheters, renal biopsies.

#### 8. Details of faculty development programmes and teachers who have been benefited during the past two years

Medical education programmes attendance, Nephrology conference attended by all teachers

every year. .



### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

Teaching – Lectures, Student Projects, Thesis, Consultancy – OPD Clinics.

Research – Projects.

### 10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

DM Examiner for Maharashtra, Andhra Pradesh. DNB Inspector, Reviewer for International journals–Clinical nephrology, Journal of vector borne disease, Journal of emergencies trauma shock.

Junior faculty are part of International society of Nephrology and European Renal Association young nephrologist program and got travel grants through the same.

### 11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years

#### Ongoing:

Category	Number
Funded research projects	3
Non funded research projects	5
PhD research projects	3 + co-guide for 2
P.G. research projects	6

#### Last 3 years (2012-2014)

		2012	2013	2014
Completed funded research projects		0	1	2
Completed non-funded research projects		1	3	1
Completed PhD research projects		1	0	0
Completed PG research projects		0	0	2
Completed UG research projects		1	1	
Publications	International	2	7	8
	National	2	2	7
Books		0	0	0
Chapters in books		0	0	0
Conference presentations	International	3	5	5
	National	5	2	4

**PhD Thesis:**

- a) Ms. Daisy Josphine Lobo, Reg.No.: 090500002  
 Title of Research: A study to identify the contributing factors of fatigue, find the efficacy of acupressure and difference in the Oxidative Stress Markers (OSM) of patients with end – stage renal disease (ESRD) on Maintenance Hemo dialysis (MHD) in a selected hospital of Udupi District, Karnataka.
- b) Ms. Leena Sequira, Reg. No.: 110500002  
 Title of Research: Reference range of estimated glomerular filtration rate and its implication in disease Management program for chronic kidney disease, Udupi Dist,  
 Co-guide: Ms. Saleena Ummer Velladath, Dept. of MLT, MCOAHS, Manipal.
- c) Mrs. Asha Patil, Reg. No.: 131100004  
 Title of Research: Validity of urinary biomarker uTWEAK with activity and chronicity indices in lupus nephritis in a tertiary care hospital.
- d) Mr. Prasanna Kumar, Reg. No. 120600001  
 Title of Research: ‘A study to assess risk factors associated with sudden death in chronic kidney disease Population on hemodialysis’ Lecturer, Department of Pharmacy Practice, MCOPS, Manipal,
- e) Uday Venkat Mateti  
 Title of Research: Impact of pharmaceutical care plan on health related quality of life and pharmaco-economic studies among chronic kidney disease patients on dialysis, Research Scholar Dept. of Pharmacy Management MCOPS, Manipal, Manipal University

**Publications:**

1. Devi, E.S., et al., 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, 2012. 4(1): p. 15-17.
2. Geetha, V., et al., Decoy cells in urine cytology: A useful clue to post-transplant polyoma virus infection. Journal of cytology/Indian Academy of Cytologists, 2012. 29(2): p. 133.
3. Prabhu, R., et al., 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, 2012. 4(1): p. 15-17.

4. Rama, M., et al., 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): p. 63.
5. Attur, R.P., et al., Acute kidney injury in scrub typhus. *Clinical and experimental nephrology*, 2013. 17(5): p. 725-729.
6. Deshpande, P.R., et al., Acute renal failure and/or rhabdomyolysis due to multiple bee stings: A retrospective study. *North American journal of medical sciences*, 2013. 5(3): p. 235.
7. George, S., L. Acharya, and A. Prabhu, MallayasamyS. Management and treatment outcome of complications of chronic kidney disease patients in a South Indian tertiary care hospital. *Int J Pharmacol and Clin Sci*, 2013. 2: p. 113-20.
8. Kosaraju, K., et al., Hepatitis viruses in hemodialysis patients: an added insult to injury? *Hepatitis research and treatment*, 2013. 2013.
9. Mateti, U.V., et al., Pharmaceutical Care for Dialysis Patients. *Systematic Reviews in Pharmacy*, 2013. 4(1): p. 1.
10. Nayak, D.M., et al., Overestimation of hemoglobin due to paraproteins in myeloma: A case report. *Journal of Chemical, Biological and Physical Sciences*, 2013. 4(1): p. 375-378.
11. Prabhu, A.R., What's new in Emergencies, Trauma and Shock? hematuria in hemodialysis patients. *Journal of Emergencies, Trauma, and Shock*, 2013. 6(4): p. 233.
12. Saravu, K., et al., Spontaneous tumour lysis syndrome in a case of multiple myeloma—A rare occurrence. *The Australasian medical journal*, 2013. 6(3): p. 168.
13. SarithaU, K., et al., Prevalence of Anemia in Patients Undergoing Maintenance Hemodialysis in a Tertiary Care Setting. *International Journal of Clinical and Surgical Advances*, 2013. 1(2): p. 16-21.
14. Bairy, M., et al., The left mediastinal hemodialysis catheter. *The journal of vascular access*, 2014: p. 0-0.
15. Bairy, M., R. Prabhu, and S. Prasad, Hemodialysis catheter-induced stroke. *The journal of vascular access*, 2014. 15(4): p. 325-326.
16. Chakraborty, J., et al., Study of association of angiotensin converting enzyme gene polymorphisms and target organ damage in type 2 diabetes mellitus. *Nephrology Dialysis Transplantation*, 2014. 29(Supl-3): p. 419-433.
17. Karanth, S., et al., Intravenous iron sucrose and oxidative stress in chronic kidney disease stage 4 and 5. *Nephrology Dialysis Transplantation*, 2014. 29(3): p. 145-146.
18. Kumar, P., et al., A Study To Assess Disease Progression To Esrd Within A Year In Patients With Advanced Ckd. *Value in Health*, 2014. 17(7): p. A467.

19. Laxminarayana, S.L.K., et al., Hematopathology: Poster# 200 HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS-AN UNUSUAL PRESENTATION OF TUBERCULOSIS IN HEMODIALYSIS PATIENTS. Pathology-Journal of the RCPA, 2014. 46: p. S101-S102.
20. Mateti, U., et al., Management Of Anemia Among Chronic Kidney Disease Patients On Hemodialysis: A Study Of Cost Of Illness. Value in Health, 2014. 17(3): p. A292-A292.
21. Nagaraju, S.P., et al., Glomerulonephritis with crescents in adults– clinico-pathological characteristics and determinants of outcome. Nephrology Dialysis Transplantation, 2014. (Supl-3): p. 186-200.
22. Prabhu, R.A., S.P. Nagaraju, and K.A. Rao, Retinal Detachment in Autosomal Dominant Polycystic Kidney Disease. American Journal of Kidney Diseases, 2014: p. 1-1.
23. Shastry, I.K., et al., Paraprotein-induced factitious results on an automated haematology analyzer. British Biomedical Bulletin, 2014. 2(1): p. 187-191.
24. Valsaraj, B.P., et al., A Qualitative Research on the Experience of Haemodialysis in South Karnataka: Lived Experience of Persons undergoing Haemodialysis. Journal of Krishna Institute of Medical Sciences University, 2014. 3(2): p. 90-100.
25. Valsaraj, B.P., et al., Development of dietary guidelines for persons undergoing haemodialysis. Education, 2014. 36(14): p. 72.
26. Valsaraj, B.P., et al., Renal Diet for Hemodialysis Patients. IOSR Journal of Nursing and Health Science (IOSR-JNHS), 2014. 3(1): p. 31-35.

### **Conference presentation:**

#### **National:**

- Author - “Clinical profile of membranous Nephropathy “ poster at ISNCON 2013, Gurgaon, India
- Author –“BKV Nephropathy in live related renal transplants in a single center” podium presentation at 10<sup>th</sup> Nephrology Urology and transplant Surgeons of SAARC 2013, Chennai India
- Author – “ Short term fall in GFR in Diabetes Mellitus” Poster in International Non communicable Disease Research meet, Feb 2013, Manipal
- Prevalence of cardiovascular risk factors in diabetic patients with chronic kidney disease – NCD 2013 Manipal, Karnataka.
- Lupus nephritis – Experience from south India – ISNCON 2013 New Delhi.
- Author – “ Atypical Atypical hemolytic syndrome “ poster at IRSTPCON 2014, Mysore, Karnataka

- Author-“Can citrate be used instead of acetate in ICU hemodialysis?” Podium presentation in Nephrology Association of Karnataka Meet, April 2014 **SOUTH ZONE ISNCON 2013**: Poster presentation: Clinical profile of renal failure in multiple myeloma
- **NCD 2013**: Poster presentation: Impact of renal transplant on Body mass Index (BMI)
- **PDSICON 2014**: Poster presentation: Improved outcome in a case of peritoneal dialysis peritonitis associated with intra-abdominal pathology by early explorative laparotomy
- **ISNSCCON 2014 (Feb 14-16): Case series**: Clinicopathological Correlation of IgA Nephropathy in a tertiary care hospital.
- **ISRTPCON 2014 (Aug 1-3): Case report**: Immune mediated Crescentic MPGN secondary to HBV infection: A rare presentation of a common infection.
- **ISNCON 2014 (Dec 18-21): Case series**: Prognostic value of clinical and histopathologic variants of primary Focal Segmental Glomerulosclerosis in adults
- **ISHDCON 2015**: Poster presentation: Clinical profile of Mineral and Bone Disorder (CKD-MBD) in hemodialysis patients at a tertiary care hospital
- **Nephrology association of Karnataka (NAK) 2015**: Platform presentation: Valvular calcification and clinical profile of mineral and bone disorder in hemodialysis patients. (awarded second prize).

### International

1. Study of association of angiotensin converting enzyme gene polymorphisms and target organ damage in type 2 diabetes mellitus DOI: 10.3252/pso.eu.51era.2014 Poster presentation European renal association conference 2014 Amsterdam no. 309—MP
2. Intravenous iron sucrose and oxidative stress in chronic kidney disease stage 4 and 5 DOI: 10.3252/pso.eu.51era.2014 Poster presentation European renal association conference 2014 Amsterdam no. 225—SP
3. Acquired bartter syndrome due to streptomycin DOI: 10.3252/pso.eu.51era.2014 Poster presentation European renal association conference 2014 Amsterdam no. 4—SP
4. Glomerulonephritis with crescents in adults - clinico -pathological characteristics and determinants of outcome DOI: 10.3252/pso.eu.51era.2014 Poster presentation European renal association conference 2014 Amsterdam no. 378—SP
5. – “Heparin free acute hemodialysis in ICU- Does use of citrate based dialysate prevent clotting? “poster At Asia Pacific Congress of Nephrology, Tokyo, Japan
6. Assessment of donor kidney function – Reliability of GFR based predictions equations in Indian population – Asia pacific congress of nephrology, Tokyo 2014.

7. Author – “Can Urine NGAL be used in the prediction of Acute Cardio renal Syndrome?” – poster at World Congress Nephrology ,March 2015, Cape Town, South Africa
8. Effects of citrate acid concentrate on hemodialysis adequacy and quality of life: a prospective randomized cross over trial in an Indian cohort –World congress of nephrology, Cape Town 2015.

#### **P.G. Thesis (DM):**

- Study of clinical profile of lupus nephritis. (Dr. Srinivas)
- Study of clinical profile, risk factors and prognosis of acute cardio renal syndrome and role of Ngal ( Dr. Rajeevalochana)
- Study of Clinical profile of mineral and bone disorders and extraskeletal calcification in chronic kidney disease patients (Dr. Mohit Madken)
- “Clinical profile of biopsy proven nephrotic syndrome in adults”. (Dr. Aswani Srinivas)
- Title: Study of clinical profile of Membranous Nephropathy Dr. Sindhu Kaza)
- Clinical profile of Multiple myeloma –Dr Srikanth Prasad Rao

#### **Projects:**

- Oxidation stress of Intravenous Iron (Dr. Suman Karanth)
- Clinical study of Citrate dialysate . (Dr. Shankar Prasad)
- Study of Lactic Acidosis in CKD diabetic patients on Metformin
- Access, Adherence, and Outcomes of Renal Replacement Treatments at a Tertiary Care Hospital in Coastal Karnataka, India: Implications of Gender and Sex Analysis for Preventing End Stage Renal Disease and Providing Better Health Care Lawrence Martis, PhD Under supervision Dr. Bitzan, MCH, McGill University Shastri Partnership Seed Grant Project (SPSG)

### **12. Placement record of the past students and the contribution of the department to aid student placements**

Nil

### **13. Plan of action of the department for the next five years**

- To develop a viable Cadaver transplant, Satellite dialysis programme.
- Enhance Inter departmental research increased Nephrology service at community level.
- To place the nephrology department in the top 10 in the country

**1. Name of the Department: GASTROENTEROLOGY –KMC- Manipal.**

**2. Faculty profile - adequacy and competency of faculty**

There are 03 teaching faculty, meeting MCI recruitments on training and qualification for PG training. All the faculty members are with post graduate qualification and are competent.

**Faculty List**

Sl.No	Name	Qualification	Designation	Teaching Experience years
1	Dr Ganesh Pai C	MBBS, MD, DM	Professor & Head	22
2	Dr Shiran Shetty	MBBS, MD, DM	Assoc. Prof.	2
3	Dr Girisha B	MBBS, MD, DNB	Asst. Prof.	2
4	Dr Anurag J Shetty	MBBS, MD	DM trainee	<01
5	Dr Harneet Singh	MBBS, MD	DM trainee	<01
6	Dr Abhijith B R	MBBS, MD	DM trainee	<01

Category	Sanctioned	Filled
Teaching staff	03	03
Senior Registrar	02	02

**3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,**

Please refer Annexure no. HS 1 for details.

**4. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes**

Developed curriculum of Dr. Ganesh PaiC

Developed guidelines for registrars by Dr. Ganesh PaiC

Introduced thesis for Registrars - Dr. Ganesh Pai C

**5. Trends in the success and dropout rates of students during the past two years.**

Course	Pass Percentage			Drop outs		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
DM	--	--	100	0	0	0

**6. Learning resources of the department – library, computers, laboratories etc.**

- Library – 149 books



- Computers – 6 Computers and 3 Printers
- Laboratory - Includes well equipped
  - Tali image based cytometer
  - centrifuge
  - cold centrifuge
  - water bath
  - hot air oven
  - fluorescence microscopy
  - pH meter
  - Computer

**7. Modern teaching methods practiced and use of ICT in teaching – learning.**

Developed newer graded techniques for endoscopy training for registrars

**8. Participation of teachers in academic and personal counseling of students**

6 monthly updates for registrars on their performance.

**9. Details of faculty development programmes and the teachers who have been benefited during the past two years.**

Gastroenterology research forum – meets regularly and discuss cutting edge research

**10. Participation / contribution of teachers to the academic activities including teaching consultancy and research.**

The Dept receiving DBT, ICMR and DST grant (1 each) for research project.

**11. Collaboration with other institutions / departments at the state, national and international level and their outcome during the past two years**

Research collaboration with other constituent institutions of the University –School of Life Science Centre, Manipal.

**12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.**

Priority Area for Research: Inflammatory bowel diseases, Pancreatitis, Dyspepsia.

A Snapshot of our research activities and Publication activities is given in the tables below

**Ongoing:**

Category	Number
Funded research projects	2
Non-funded research projects	0
PhD research projects	1

PG research projects	2
UG research projects	--

**Last 3 years (2012-2014):**

		2012	2013	2014
Completed funded research projects		0	1	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	1	0
Completed PG research projects		0	0	1
Completed UG research projects		0	0	0
Publications	International	2	3	7
	National	3	5	5
Books		0	0	0
Chapter in Books		0	0	0
Conference Presentations		--	--	--

**The detailed outline of projects is given below:****Completed funded research projects are:**

Sl.No	Title	Principal Investigator	Funding agency	Total amount received
1.	“Progression of Pancreatitis – a Prospective Follow up of Patients with Chronic, Recurrent Acute and Acute Pancreatitis”	Dr. Ganesh Pai C	DBT	Rs.17,00,000/-
2.	“Identification of Novel molecular approaches to detect idiopathic ulcerative colitis patients at risk of Colo-rectal malignancy”	Dr. Ganesh Pai C	DBT	Rs. 51, 00,000/-
3.	“Staging of Chronic Pancreatitis – Role of Clinical parameters and biomarkers”	Dr. Ganesh Pai C	ICMR	Rs. 5.28 lakhs

**Completed PG research projects are:****Year 2013 - Nil**

**Year 2014**

Sl.No	Title	Name of the student	Guide
1.	Natural History of Ulcerative Colitis with respect to treatment modalities and role of CMV Infection	Dr. Sumit Bhatia	Dr. Ganesh Pai C

**Year 2015**

Sl.No	Title	Name of the student	Guide
1	Spectrum of Dyspepsia in Indian Population	Dr. Anurag J Shetty	Dr. Ganesh Pai C

**Completed UG research projects are:****Year 2012 - Nil****Year 2013 - Nil****Year 2014 - Nil****On- going funded research projects are:**

Sl.No	Title	Principal Investigator	Funding agency	Total amount received
1	“ Differences in T Lymphocytes Apoptosis in the Granulomatous Inflammation in Intestinal Tuberculosis and crohn’s disease- implications to diagnosis and pathogenesis”	Dr. Ganesh Pai C	DST	Rs. 52,00,000/-

**Ongoing PhD research projects are:**

Sl.No	Title	Name of the student	Name of the guide
1.	Laboratory & Immunological differences between intestinal tuberculosis & Crohn’s disease - Role in diagnosis	Ms. Suprabha	Dr. Ganesh Pai C

**Ongoing PG Research projects - Nil**

## JOURNAL PUBLICATIONS – 2012

### International –

1. Kakunje Anil, KanaradiHaridas , Chand Prabat, Podali S.V.N. Sharma, Pai Ganesh, SowmyaPuthran. Personality Profile of Persons with Alcohol Dependence with and without Cirrhosis: A Hospital Based Comparative Study. International Journal of Health and Rehabilitation Sciences 2012;1;2 94-98
2. Shivakumar B M, Kumar B L, Bhat G, et al. Molecular alterations in colitis – associated colorectal neoplasia: Study from a low prevalence area using magnifying chromo colonoscopy. J Crohns Colitis. 2012; 6:647-54.

### National

1. Ganesh Bhat, Deepak Suvarna, C Ganesh Pai – Endoscopic retrieval of Impacted Fish Bone in Esophagus – A New Indication for Argon Plasma Coagulation”. Journal Of Digestive Endoscopy 2012;3(3):63-64
2. Makharia GK, Pai CG, et al. Survey of inflammatory bowel diseases in India. Indian J Gastroenterol. 2012 Dec;31(6):299-306.
3. Ramakrishna, B.S, Pai, C.G. et al. Indian Society of Gastroenterology consensus on ulcerative colitis. Indian Journal of Gastroenterology Volume 31, Issue 6, December 2012, Pages 307-323

## JOURNAL PUBLICATIONS – 2013

### International

1. NayakSuprabha, Ganesh C Pai – “Mesenchymal Stem Cells and Granulomas in Crohn’s Disease and Intestinal Tuberculosis: The Way Forward” - Digestive Diseases and Sciences December 2013, Volume 58, Issue 12, pp 3641-3642
2. Shivakumar BM, Lakshmi Rao, Satyamoorthy K, Ganesh C Pai Synchronous colorectal neoplasms in ulcerative pancolitis of 6 years duration: pathological and molecular heterogeneity. BMJ Case Rep 2013. pp 1-4.
3. BhadravathiMarigowdaShivakumar, BalasubramanianLakshman Kumar, Lakshmi Rao, Ganesh Bhat, Deepak Suvarna, C Ganesh Pai. Colorectal neoplasia in longstanding ulcerative colitis - a prospective study from a low prevalence area. Colorectal Disease Colorectal Dis. 2013 Aug; 15(8):e462-8.

### National Journals

1. Ganesh Bhat, Deepak Suvarna, C Ganesh Pai – “Symptomatic portal biliopathy following cyanoacrylate Injection for a bleeding duodenal varix” - Tropical Gastroenterology 2013;34(2):112-113
2. Ganesh Bhat , K. E. Vandana, Sumit Bhatia, Deepak Suvarna, Cannanore Ganesh Pai - Spontaneous ascitic fluid infection in liver cirrhosis: bacteriological

- profile and response to antibiotic therapy. *Indian J Gastroenterol.* 2013 Sep;32(5):297-301
3. C. Ganesh Pai - Portal hypertensive polyp—what is in a name? *Indian J Gastroenterol.* 2013 May;32(3):163-4
  4. Shetty S, Janarathanan K, Arunachal/.am P. Trichotillomania with gastric trichobezoar. *Ann Gastroenterol.* 2013;26:255
  5. Shetty S, Krishnan M, Janathan K, Leelakrishnan V. Ruptured hydatid cyst of the liver with biliary obstruction - endoultrasound findings. *J Dig Endosc* 2013;4:52-3

## JOURNAL PUBLICATIONS 2014

### International Journals:

1. Nageshkamath, Ashakamath, C Ganesh Pai. Infliximab for moderate to severe ulcerative colitis - the jury isn't in yet. *Gastroenterology* 2014 Volume 147. No.2- Impact factor 12.821
2. HaimavatiRammohan C. Ganesh Pai -“Shrinking Indications for Azathioprine in Crohn’s Disease: A Conclusion to Premature?” *Gastroenterology* Volume 146, Issue 3, March 2014, Pages 866–867
3. Padmalatha S Rai, Ganesh C Pai, Jose F Alvares, RavishankaraBellampalli, Puthiya M Gopinath&KapaettuSatyamoorthy - “ Intraindividual somatic variations in *MTHFR* gene polymorphisms in relation to colon cancer” *Pharmacogenomics* (2014) 15(3), 349–359
4. Shetty S, Rajasekaran S, Venkatakrishnan L. Grave's Disease and Primary Biliary Cirrhosis-An unusual and challenging association. *Journal of Clinical and Experimental Hepatology.* 2014;4(1):66-67.
5. Kamath N, Shetty S. Are current practices for Hepatitis B-positive immigrants reasonable? *Australasian Medical Journal.* 2014; 7(4):196-197
6. Shetty S. Pain in urolithiasis. What is left in the bag? *IntSurg J.* 2014; 1(3): 191
7. Leelakrishnan V, Gopalan R, Shetty S. Hemobilia – a sporadic cause of hematemesis. *Int J Pharmacol and ClinSci* 2014;3:79-82.

### National:

1. Shetty S, Rangasamy S, Janarathanan K, Gopalan R. Abdominal catastrophe in infective endocarditis. *Indian J Gastroenterol.* 2014 Jan;33(1):94-5.
2. Shetty S, Balasundaram P, Muthuraman M, Leelakrishnan V. Jejunal diverticulosis - rare cause of gastrointestinal bleed. *Indian J Surg.* 2014 Feb; 76(1):15-6.
3. Shetty S, Pandey S, Leelakrishnan V. Incidentally detected polycystic kidney and Caroli's disease. *Ann Gastroenterol.* 2014;27(1):75

4. Shetty S, Mambatta AK, Penmatsa KR, Venkatakrisnan L. Ilealmucormycosis: a rare cause of lower gastrointestinal bleeding. Ann Gastroenterol. 2014;27(2):169
5. Talukdar R, Ingale P, Choudhury HP, Dhingra R, Shetty S, Joshi H et al. Antibiotic use in acute pancreatitis: An Indian multicenter observational study. Indian J Gastroenterol. 2014; 33(5):458-465.

### Conference Presentation:

Dr. Ganesh Pai C – Conference presentation **2012**

- “Hepatitis B and C in Inflammatory Bowel Disease” April 21<sup>st</sup>& 22<sup>nd</sup> 2012 Attending Indo-British Health Initiative’s Gastroenterology Conference at MIOT hospitals, Chennai. GIBICON 2012
- 13<sup>th</sup> Annual Meeting of Gastrointestinal Endoscopy of India and annual Meeting of Indian Society of Gastrointestinal (West Bengal chapter) from April 26<sup>th</sup> – April 29<sup>th</sup> 2012 Apollo Gleneagles Hospitals, Kolkata, India
- The IBD Task Force along with a Governing Council meeting of the Indian Society of Gastroenterology in Chennai on May 12th and 13th
- “Pitfalls in endoscopic imaging in IBD” Agenda of the 3<sup>rd</sup> National IBD Meet in the Heritage Manesar, Gurgaon on 29<sup>th</sup> and 30<sup>th</sup> Sept 2012

2014

- 1<sup>st</sup> April 2014 - 9<sup>th</sup> April 2014 - “2<sup>nd</sup> Asian Clinical Congress (ACC2)” in Japan - title - “Outcome of non-surgical therapy for pain of chronic pancreatitis”

### Papers presented at the conference by Post graduates

Dr. Anurag J Shetty

Poster:

1. Pancreatic calculus causing biliary obstruction at the ampulla – endoscopic therapy presented at ISGCON – Ahmadabad November 2013.
2. Quality of life in patients with common causes of dyspepsia a comparative study - ISGCON 2014 – Mumbai – December 2014
3. ACLF due to HEV infection - Hepatology update 2015 – February 2015

Dr. Harneet Singh

Poster:

1. PCC – When surgical therapy fails on is not feasible – ISGCON 2014 Mumbai

Case Presentation:

1. Hepatic amyloidosis and 2. Melioidosis

**13. Placement record of the past students and the contribution of the department to aid student Placements.**

Nil

**14. Plan of action of the department for the next five years.**

Improve clinical care, research, and teaching.



### 1. Name of the Department: HOSPITAL ADMINISTRATION

### 2. Faculty profile - adequacy and competency of faculty

There are 04 teaching faculty meeting MCI requirements on training and qualification for PG training. All faculty are competent.

#### Faculty List:

Sl. No	Name	Qualification	Designation	Teaching experience in years
1	Dr. Somu G	MBBS, MD	Professor & Head	9
2	Dr (Col) M Dayananda	MBBS, MHA	Professor	11
3	Dr Naveen Kumar P	MBBS, MD	Assoc.Prof.	4
4	Dr. Arun Mavaji Seetharam	MBBS	Asst. Prof.	<01
7	Dr. Sujith Kumar M	MBBS	Junior Resident	<01
8	Dr. Charan Tej Koyi	MBBS	Junior Resident	<01
9	Dr. Nagaraj	MBBS	Junior Resident	<01
10	Dr. AkashAnand	MBBS	Junior Resident	<01
11	Dr. Puneeth T	MBBS	Junior Resident	<01
12	Dr. Subhodip Mitra	MBBS	Junior Resident	<01
13	Dr. Pavithra L S	MBBS	Junior Resident	<01
14	Dr. Vignesh R	MBBS	Junior Resident	<01
15	Dr. Amitha Shetty	MBBS	Junior Resident	<01

Category	Sanctioned	Filled
Teaching staff	03	04
Junior Residents	09	09

### 3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 for details

### 4. Changes made in the courses or programmers during the past two years and the contribution offaculty to those changes.

The academic curriculum is renewal once in 10years and before implementation it is passed through The Board of studies meeting. The last academic renewal took place in the 2008 during which Dr. Anil Gomes (In-charge HOD) had presented the MD

Teaching curriculum with proposed revisions and additions to the existing curriculum at the curriculum renewal committee which met in New Delhi.

More recently Dr. Somu G HOD has under taken the following measures that have been incorporated to strengthen the PG teaching. This includes Manager on duties for Postgraduate students on rotation. This activity requires the student to monitor the functioning of the hospital throughout the day and night and take appropriate measures in solving the issues that arise during the days functioning. The action is taken in consultation with the Medical Superintendent and operation team.

The Postgraduate students are assigned short projects related to Hospital Operations. This activity helps the students to take active part in Managing and running of the hospitals.

The PG academic program is included with two grand seminars in a month and also case study discussions in additions to the existing curriculum with Journals/Seminars/Area presentations.

Each postgraduate student is encouraged to participate and make atleast one poster/paper presentations at the National/International conference during their three year program.

Each postgraduate student is encouraged to publish at least one paper in indexed journals in the field of Hospital Administration.

There is a monthly department meeting attended by all students and faculty during which the academic program is reviewed. This also forms a part of ISO and NABH requirement.

The course is regulated by MCI and the department strictly complies with the laid down requirement.

## 5. Trends in the success and dropout rates of students during the past two years.

Course	Pass Percentage			Dropout Rate		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
MD	100	100	100	0	0	0

## 6. Learning resources of the departments - library, computers, laboratories and other resources.

The department is equipped with a good number of books on general management, books related to hospital & healthcare management, public health and marketing, Hospital planning etc. The library also has journals, Journal of Academy of Hospital Administration, Hospital Administration, Indian Journal of Public Health, Express Healthcare, Modern Medicare, Indian Management, Vikalpa. The department library has approximately 170 books

The department is well equipped with postgraduate teaching facilities, a seminar room with a LCD Projector and other audio visual facilities, a computer room with internet facility and an office room.

**7. Modern teaching methods practiced and use of ICT in teaching – learning.**

The department extensively uses AV aids like OHP and LCD projector and multi-media for teaching. Department has monthly area postings and block postings in all departments of the hospital in rotation. In addition students make seminar and postings presentations in the department amidst all faculty members. Discussions on Journals related to healthcare field are undertaken during journal club presentations held once a week. Case study discussions are also undertaken.

**8. Participation of teachers in academic and personal counseling of students.**

The faculty are involved in taking lecture class once a week. In addition they also participate in the Journal/Seminar/Area presentation held during the week. In addition faculties also discuss and clarify the doubt about in students on and when they ask. As the number of postgraduate students is few there is a one to one interaction between the faculty and students for personal interaction and mentoring

**9. Details of faculty development programmes and teachers who have been benefited during the past two years.**

All faculty attend ‘faculty development programmes organized by Medical Education Department, Manipal as and when they are organized. Some of the sessions include Pedagogic, Teacher as leader, sessions on leadership, management, and time management to mention a few.

In addition all faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 15 such programmes.

**10. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

All the faculty are actively involved in teaching PG students in the field of hospital and healthcare management. Faculty are involved in guiding students, Faculty are also given freedom to suggest new books /Journal to keep in department library which is central procurement through proper channel and maintain in Health Science library.

**11. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past 3years (2010-14).**

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## 12. Priority areas for Research and details of the ongoing projects, important and noteworthy

### Publications of the faculty, during past 3 years (2010-14).

Research areas include application of management principles and Operations Research (OR) techniques in hospital operations and healthcare. Making statistical analysis in planning, controlling and decision making process

#### Ongoing:

Category	Number
Funded research Projects	0
Non-funded research Projects	8
PhD research projects	0
PG research projects	09
UG Research projects	NA

#### Last 5 years (2010-14)

	2012	2013	2014	
Completed Funded research projects	0	0		
Completed Non-funded research Project	4	8	22	
Completed PhD research projects	0	0	0	
Completed PG research projects MD	1	1	2	
Completed UG research projects	0	0	0	
Publications	International	4	0	8
	National	0	4	1
Books	0	0	0	
Chapters in book	0	0	0	
Conference presentations	International	5	2	3
	National	6	6	8

The detailed outline of projects is given below:

Ongoing funded research projects are:**Nil**

Ongoing non- funded research projects are:**8**

Ongoing PhD research projects are:**Nil**

**Ongoing PG Research Projects are:**

Sl No	Title	Name of student	Name of guide
1.	Study of Quality in CCU	Dr. Sujith	Dr. (Col) M Dayananda
2.	A study of assisted reproductive technology centre in a tertiary care hospital with special reference to its economics	Dr. CharanTejKoyi	Dr. Somu G
3.	Impact of tertiary care hospital in maternal and child health (MCH) services in Udupi District	Dr. Nagaraj	Dr. (Col) M Dayananda
4.	Study the feasibility of telemedicine facility in a tertiary care hospital	Dr. AkashAnand	Dr. (Col) M Dayananda
5.	A study of medical tourism in a tertiary care hospital	Dr. Puneeth T	Dr. Somu G
6.	Study impact of accreditation on patient safety in a tertiary care hospital	Dr. SubhodipMitra	Dr. Somu G
7.	Cost Consequences in implementing quality management system in a tertiary care hospital	Dr. Pavithra L S	Dr. (Col) M Dayananda
8.	Study on cost analysis of IP services in a tertiary care hospital	Dr. Vignesh R	Dr. Somu G
9.	Study on utilization of emergency department	Dr. AmithaShetty	Dr. (Col) M Dayananda

Ongoing UG research projects are: NA

Completed PG research Projects are:

**Year 2012:**

Sl No.	Title	Name of student	Name of guide
1	Evaluation of OPD services at Kasturba hospital	Dr. Ashwini Nayak	Dr. R. K. Bhaskar

**Year 2013:**

Sl No.	Title	Name of student	Name of guide
1	Evaluation of Laboratory services at Kasturba hospital	Dr. Aadithya Sirohi	Dr. R. K. Bhaskar

**Year 2014:**

Sl No.	Title	Name of student	Name of guide
1	Operational & Financial feasibility of PET/CT Scanner at tertiary care teaching hospital	Dr. Arun M S	Dr. (Col) M Dayananda
2	A study to evaluate patient safety in a tertiary care hospital	Dr. Rekha Subramaniyam	Dr. Somu G

**The details of publications described below:****Year 2012:****National:**

1. Somu G. (2012), Marketing strategies in Healthcare. Intl Journal of Research in Commerce and Management. . 3(6), Page No. 76
2. MeenaKumari K., Somu G, Amberkar Mohan, Nandit PB, (2012), Response to Waiting time in an OP Pharmacy at a tertiary care hospital, Applied Pharmaceutical Sciences, 2(10), Page No. 90-93

**International:**

1. Naveen Kumar, Swapna BV: Computerized Physician Order entry system – Impact of Technology in reducing medication errors in a tertiary care hospital, International Journal of Technology & Business Management, 2012; 1 (2), ISSN No. 2319-6815.

**Year 2013:****National:**

1. Kumar PN, Hoovayya KP: Impact of medical record audit on quality of healthcare delivery – a corporate hospital experience: Int J of Health Sciences & Research 2013, 3 (10): Page 66-74.
2. N. Kumar, Hoovayya KP, C. T. Koyi: Study on workload analysis of staff nurses in a tertiary care teaching hospital, J of Academy of Hospital Administration, Vol 25, 2, July-Dec' 2013.
3. MavajiArunSeetharam, KantipudiSudhakar, Somu G, Jibu (2013) Innovative methods to improve hospital efficiency – study of Pneumatic Transport systems in healthcare, IOSR-Journal of Business and Management, 9(6), Page 10-15.

4. RekhaSubramaniam, Somu G, Role of Laboratory information system in patient safety, Journal of Academy of hospital Administration, 25(1), 2013, Page no 52-55.

**International: Nil**

**Year 2014:**

**National:**

1. SmithaNayak, VinodNayak, Somu G, Shankar B, Knowledge and attitude of Nurses on Biomedical waste management – A cross sectional study, Journal of Pharmaceutical and Biomedical sciences, 2014 4(8), 733-736

**International:**

1. Kumar Naveen, Hoovayya KP, Ahmed SA: Study on Health information seeking behaviour among inpatients in a tertiary Care Hospital, Int J of Health Sci Res. 2014;4(3):198-209.
2. P Naveen Kumar, Anil Jacob, SmruthiThota: Impact of Healthcare Marketing & branding on hospital services, Intl J of Res Foundation of Hosp& Healthcare Admin. Jan-June 2014, 2(1), Page 19-24.
3. P Naveen Kumar: Break-even analysis of CT scan facility at a multi-specialty hospital, IntJof Scientific Res. April 2014, 3(4), ISSN No. 2277-8179.
4. P Naveen Kumar: Utilisation study of CT Scan in a multi-specialty hospital, Int J of Scientific Res. July 2014, 3(7), ISSN No. 2277-8179.
5. Kumar PN, Sharma S. Study on Cost-benefit analysis of ComputerisedTomography(CT) Scan. Int J Health Sci Res. 2014;4(8):205-211.
6. Pera N K, Kaur A, Rao R: Perception of Electronic Medical Records by Nursing staff in teaching hospital in India, Inl J Advanced Medical & Health Res, Dec' 2014.
7. P Naveen Kumar, DnyataPandit: Study on Awareness of occupational hazards among nurses, Int J of Scientific Res. March 2015, 4(3), ISSN No. 2277-8179.
8. Dr ArunMavajiSeetharam, Dr PriyaRathi,DrSomuG,Dr.Varun N, Impact of Social Marketing on Maternal and Child Health: Study of RMCW Home attached to a Manipal UniversityIOSR Journal Of Humanities And Social Science (IOSR-JHSS) Volume 19, Issue 11, Ver. V (Nov. 2014), PP 47-50\

**Report Submitted:**

1. Dr. Somu.G, Dr. R K Bhaskar, Dr. AadityaSirohi published a report titled ‘ Hospital Role in Facing Pandemic situation 2009 H1Ni Swine flu in IHF website.

[http://www.ihf-fih.org/Publications/Reports/H1N1-and-the-Hospital/\(book\)/true#/0](http://www.ihf-fih.org/Publications/Reports/H1N1-and-the-Hospital/(book)/true#/0)



The details of books published by our faculty are given below:

Sl.No	Title	Name of the faculty	Publisher
1	Financial Management for Hospital Administration	Dr. Libert Anil Gomes	Jaypee New Delhi
2	Legal Aspects in Healthcare	Dr. Somu G	SMU, Manipal
3	Hospital Planning and Organization	Dr. Somu G	SMU, Manipal

The details of our conference presentations have been listed below:

**Year 2012:**

**International:**

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Ensuring safety in healthcare: Does HR department have a role?	Dr. Somu G	International conference IJKEM-2012 organized by Academy of Human resource management at Istanbul, Turkey between 07-10 Nov 2012.
2	Biomedical Waste Management Practices in Dental Clinics	Dr. Naveen Kumar P	International conference at Hong Kong on 29 August 2012
3	Impact of facility and equipment management on patient safety	Dr. Arun M S, Dr. Naveen Kumar P	2nd International Congress on Patient Safety Hyderabad international convention center, Hyderabad, on 1st & 2nd September 2012
4	Role of laboratory information system on patient safety	Dr. Rekha, Dr. Somu.G	2nd International Congress on Patient Safety Hyderabad international convention center, Hyderabad, on 1st & 2nd September 2012
5	Impact of accreditation on patient safety	Dr. Charan, Dr. Purshottam	2nd International Congress on Patient Safety Hyderabad international convention center, Hyderabad, on 1st & 2nd September 2012

**National**

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Marketing Strategies in Healthcare	Dr. Somu G	National conference PINACLE-2012 organized by SB Jain Institute, Nagpur on 28 <sup>th</sup> Jan 2012
2	Need for	Dr.	National conference, organized by Dept.

	Knowledge Management among clinical practitioner for collaborative learning	Purshottam K H	of Computer Science, AIIMS- New Delhi, at Delhi from 3 <sup>rd</sup> February to 5 <sup>th</sup> Feb2012
3	Impact of Social Marketing on Maternal and Child health: a study at RMCW homes attached to the medical institution	Dr. Arun M.S, Dr. Somu G	National Conference Horizon 2012 organized by Father Muller Medical College Mangalore on 24th and 25th August 2012.
4	E-marketing in Healthcare	Dr.CharanTej Koyi Dr. Purshottam KH	National Conference Horizon 2012 organized by Father Muller Medical College Mangalore on 24th and 25th August 2012.
5	Social Media Marketing in Healthcare	Dr. Arun M S, Dr. Somu G	National Conference Horizon 2012 organized by Father Muller Medical College Mangalore on 24th and 25th August 2012.
6	Word of mouth marketing in healthcare	Dr. Rekha S, Dr. Naveen Kumar P	National Conference Horizon 2012 organized by Father Muller Medical College Mangalore on 24th and 25th August 2012.
7	E-marketing in healthcare	Dr. Charan Tej Koyi Dr. Somu G	National Conference: HORIZON 2012 – “A Tale of successful Marketing” held on 24th & 25th August 2012 by Father Muller Medical College at Mangalore

**Year 2013:****National:**

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Engaging Patient Outcome	Dr.Sujith Dr. Somu	Prism 2013, National Conference, Aravind Eye Care Hospital Madurai, “Hand Hygiene Compliance: study at a large tertiary hospital” Safetycon 2014, National Conference, Cmc Vellore

2	Role of Medical Records in Quality Care	Dr. Sujith Dr. Somu	Hosprec 2013, National Conference Goa Medical College.
3	Quality Excellence Model: Experience of a Tertiary Care Hospital	Dr. Charan Tej Koyi Dr. Somu G	8th Annual National Conference “PRISM 2013 –The Healthcare Management Spectrum” held on 23rd & 24th March by LAICO, Aravind Eye Hospital at Madurai
5	Health Insurance: A solution for Healthcare financing for people in future	Dr. Nagaraj Dr. Somu G	National Conference, Prism 2013 – “The Healthcare management Spectrum” held at LAICO, Aravind Eye Hospital, Madurai on March 23-24,2013
6	Emphasis of Good Medical Practices in Tertiary care Hospital	Dr. Nagaraj Dr. Somu G	National Conference, Prism 2013 – “The Healthcare management Spectrum” held at LAICO, Aravind Eye Hospital, Madurai on March 23-24,2013
7	ABC analysis of HLA typing in Pathology	Dr. Akash Dr. Somu G	NASHCAM, Manipal

#### International:

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Comprehensive patient care in post-operative recovery.	Dr. Naveen Kumar P	OMICS group 2 <sup>nd</sup> International Surgery-Anesthesia Conference, September 2013, Las Vegas, USA
2	Use of continual quality improvement (CQI) : an effort towards achieving sustainable outcomes in health care delivery	Dr. Somu G	5th international conference on Health GIS 2013, organized by AgIT in association with ASIA Institute of Technology, Thailand. August 21-22, 2013

**Year 2014:**

**National:**

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Impact of accreditation on patient safety: Role of Hospital Committees	Dr. Charan Tej Koyi Dr. Somu G	1st National Conference on “Hospital Safety and Occupational Health” held on 24th & 25th January 2014 at Christian Medical College, Vellore
2	Impact of Facility Management and Equipment on Patient Safety	Dr. Nagaraj Dr. Somu G	A Study at a large Tertiary care Hospital” in the 1 <sup>st</sup> National Conference on “Hospital Safety and Occupational Health” held on 24 <sup>th</sup> & 25 <sup>th</sup> January 2014 at the Christian Medical College, Vellore
3	Good clinical practices in safe blood transfusion development of checklist & work instruction for blood transfusion	Dr. Akash Dr. Somu	SASH Bangalore
4	The impact of accreditation on patient safety in a tertiary care hospital	Dr. Subhodip Dr. Somu G	HADFACON, Lucknow
5	Healthcare infrastructure nad Equipment management	Dr. Somu.G	HORIZON 2014 – FMMC, Mangalore
6	E registrar – An innovation in a tertiary care centre	Dr. Puneeth Dr. Somu	HORIZON 2014 – FMMC, Mangalore
7	Role of LIS in patient safety	Dr. Puneeth Dr. Somu	SAFETYCON CMC Vellore
8	Sustainable Health care: A coordinated care approach	Dr. Arun	SASH 2014

**International:**

Sl.No	Title of the presentation	Name of the faculty	Details of conference
1	Feasibility of Fixed partial dentures	Dr. Naveen Kumar P	2014 - AEEDC Dubai, Feb'
2	Biomedical Waste Management Practices in Dental Clinics	Dr. Naveen Kumar P	2014 - Poster presentation in Greater New York Dental Meeting 2014, New York, Nov'
3	Depending on protocol in Mass casualty incident – Experience of a tertiary care hospital	Dr. Somu G	1st IALFS – TIAFT middle east congress Dubai UAE – April 1-3, 2014

### 13. Placement record of the past students and the contribution of the department to aid student Placements.

MD Hospital Administration:

All students who successfully completed 3 year academic program are absorbed into healthcare industry. All students are given an opportunity to work in the group institutions like Kasturba Hospital Manipal, Manipal Hospital Bangalore etc. The students also get placed in top corporate hospital like DM health care, Apollo hospitals. The department through its strong alumni network enables placement of all the students.

### 13. Plan of action of the department for the next five years.

The department has the following objective which is set to be achieved in the next five years.

1. To strengthen the PG academic program by introducing more Guest lecturers from people actively involved in the healthcare field.
2. More active involvement of the Post graduates in Hospital Activities
3. To take up funded research projects for faculty and PGs.
4. To motivate faculty to make at least 2 publications and participate in 2 conferences on yearly basis.
5. To strengthen the teaching faculty position in accordance to MCI norms.
6. To conduct workshops/conferences at the state and National level with a frequency of at least one per year.

## IMMUNOHAMEATOLOGY & BLOOD TRANSFUSION

### 1. Faculty profile - adequacy and competency of faculty.

The department has three teaching faculties, which meets the postgraduate training program as required by the regulatory authority and also the Drugs Controllers requirements. All faculties are competent and well trained.

#### Faculty List

Sl.No	Name	Qualification	Designation	Teaching Experience in years
1	Dr.ShameeShastry	MBBS, MD	Professor & Head	9
2	Dr.Poornima B Baliga	MBBS, MD	Professor	25
3	Dr Brij Mohan Singh	MBBS, MD	Asst Prof.	2

Category	Sanctioned	Filled
Teaching	03	03
Tutor	02	02

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 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 postgraduate course was started in the year 2012, permitted by MCI, and the department strictly complies with the laid down requirement. The curriculum for the postgraduate course includes posting in various section of blood banking and six month of peripheral postings covering hematology, microbiology, clinical postings within the institution and stem cell, cord blood transplantation outside the institution. In addition to our academic seminars, the department faculty conducts practical seminars and clinical case discussion daily. These initiatives increase the student's interest in their subject and to perform well in their exit exams.

We have a plan to send the students to the industrial visits for the observation of plasma fractionation and manufacturing of the blood collection bags. Students are sent to cancer and research center of TATA memorial Hospital, Mumbai for learning the technique of BMT

#### 4. Trends in the success and dropout rates of students during the past two years.

100% results for the first batch of PGs

#### 5. Learning resources of the departments - library, computers, laboratories and other resources.

The department is proud to possess state of art blood bank. The departmental library has adequate reference books for the use of faculty and PG students. The department has online subscription for most of the journals available in the Transfusion Medicine field. The faculties were provided with laptops by the university. The department has adequate desktop computers with internet and intranet facilities for students.

The department has a seminar room with audio-visual systems. The students were provided with a rest room and lockers.

The department laboratories were equipped with the latest instruments in adequate numbers. The department is also in process of implementing molecular laboratory for testing donor blood.

The list of online journals related to the transfusion medicine

Sl.No	Name of the journal
1	Asian Journal of Transfusion Science Publisher: Medknow Publications
2	Transfusion Publisher: Wiley-Blackwell
3	Transfusion Medicine Publisher: Wiley-Blackwell
4	Transfusion Medicine and Hemotherapy Publisher: Pubmed Central
5	Transfusion Medicine Reviews Publisher: Science Direct
6	VoxSanguinis Publisher: Wiley-Blackwell

#### 6. Modern teaching methods practiced and use of ICT in teaching – learning.

Teaching and learning methods used are

- Case discussions
- Question of the day
- Practical seminars
- Journal club



### 7. Participation of teachers in academic and personal counseling of students.

All faculty of the department are actively involved in teaching postgraduates. The faculties also involve in orientation programme for undergraduates and interns. The faculties have made efforts to create a student friendly environment within the department. Since the department has limited students, each student is given adequate care and students have the privilege of clarifying their doubts as and when required. The PG students were given adequate training to carry out therapeutic procedures and laboratory works under the supervision of the faculties. The PG students undergo their dissertation work under the guidance of the guide and also do research projects along with the faculty. The students are encouraged to present papers and posters in national and international conference. Special trainings were also given to them to participate in the quiz competition in national conference.

### 8. Details of faculty development programmes and teachers who have been benefited during the past two years.

Faculties regularly attend faculty development programmes with regard to research methodology, ethics and programmes pertaining to teaching, learning and evaluation. All faculties regularly attend scientific sessions like conference, workshop and CME. The faculty also organizes CME in Transfusion Medicine regularly for the medical officers, students and technicians.

The details of the number of CMEs and workshops attended by the faculties of the department.

	2013	2014
FDP	1	1
CME attended	4	3
Workshop attended	4	2
National conference	2	1

### 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

All faculties actively participate in the departmental research activities. The department helps the other departmental students and faculty in carrying out their dissertation and research works. The department has also applied for ICMR grants for research projects. The faculty had created in-house system for irradiation of blood components that was published in indexed journal and appreciated by the fellow members of the country.

### 10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.

The department actively participates with inter-departmental research and dissertation projects. The faculty also collaborated with other institutions at the national level in carrying out multi-centric study.

### 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 are: Transfusion transmissible infections, Auditing on the use of blood components, Rational use of component therapy, Antibody screening and identification.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	0
Non-funded research projects	5
PhD research projects	0
PG research projects	6
UG research projects	0

#### Last 3 years (2010-2012):

		2013	2014	2012
Completed funded research projects		0	0	0
Completed non-funded research projects		0	1	1
Completed PhD research projects		0	0	0
Completed PG research projects		0	2	0
Completed UG research projects		0	0	0
Publications	International		2	1
	National	0	0	1
Books		0	0	0
Chapters in books		0	0	1
Conference presentations	International	0	0	0
	National	2	2	

## Publications

Sl.No	Title	Name of the staff
1	Study of PTS for transport of blood components	Dr. ShameeShastry
2	Application of sensitive screening technique for donor antibody screening	Dr. ShameeShastry

1	2012	Severe hemolytic disease of new born in a Rh D Positive mother: Time to mandate the antenatal antibody screening. ShastryShamee, BhatSudha	Journal of obstetrics and gynaecology of India	Indexed	National
2	2013	Linear accelerator: A reproducible, efficacious and cost effective alternative for blood irradiation. ShastryShamee, Ramya B, BhatSudha	Transfusion and apheresis science	Indexed	International
3	2013	A rare case of hemolytic disease of new born with Bombay phenotype mother. ShameeShastry, Leslie Lewis, SudhaBhat	Asian journal of transfusion science	Indexed	International
4	2014	Mixed field agglutination: Unusual Causes and Serological Approach ShameeShastry, MohandossMurugesan, SudhaBhat	Asian Journal of Transfusion Science	Indexed	International

**List of Completed non-funded Research Projects****List of Ongoing Non-funded Research Projects**

Sl.No	Title	Name of the staff
1	Comparison of 3 <sup>rd</sup> generation and 4 <sup>th</sup> generation ELISA for donor screening	Dr. ShameeShastry
2	Blood donor deferral causes and pattern	Dr. Poornima B Baliga
3	Comparison of cross-match results of mono-specific Vs poly-specific AHG cards	Dr. ShameeShastry

**List of Ongoing PG research Projects****Year 2014**

Sl.No	Title	Name of the student	Guide
1	Audit of platelet concentrate usage	Dr. Deepika Chenna	Dr. Poornima Baliga
2	Antenatal antibody screening and its importance	Dr. Soumya Das	Dr. Shamee Shastry
3	Serological characterization of Rh D variants	Dr. Sreelekshmi	Dr. Poornima Baliga
4	Development of a predictive scoring system in cardiothoracic surgery patients and stratifying them according to their need for allogenic blood transfusion;	Dr. Karishma Doshi	Dr. Shamee Shastry

**12. Placement record of the past students and the contribution of the department to aid student placements.**

Nil

**13. Plan of action of the department for the next five years.**

- To strengthen the curriculum by implementing problem based learning and latest methods of teaching.
- To increase the research activities and publications in national and international indexed journals.

- To develop molecular laboratory and to start genotyping of blood donors.
- To create a rare blood donor programme in our country.
- To improve interdepartmental research projects.
- To initiate regular workshop on blood banking for medical officers and technicians within the state.
- To conduct CME once a year and to organize national/state conference.

**1. Name of the Department: MEDICAL GENETICS –KMC-Manipal**

**2. Faculty profile - adequacy and competency of faculty**

There are 2 teaching faculty meeting MCI requirements for training UGs &PGs.All thefaculties are competent.

**Faculty details:**

S.No.	Name	Qualification	Designation	Teaching experience in years
1	Dr Girisha K M	MBBS, MD, DM	Professor	15
2	Dr Anju Shukla	MBBS, MD, DM	Asst. Prof.	7

Category	Sanctioned	Filled
Teaching staff	2	2

**3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.-**

Entry level competency for MSc (Genetic Counseling) is Bachelor’s degree in genetics, biology, medicine or dentistry.

**4. Changes made in the courses or programmes during the past two years and the contribution of thefaculty to those changes.**

New course MSc (Genetic Counseling) introduced from 2014

**5. Trends in the success and dropout rates of students during the past two years-**

Not applicable

**6. Learning resources of the departments - library, computers, laboratories and other resources-**

- Health sciences library
- Laboratory facilities
- List of all equipment (Annexure I)

**7. Modern teaching methods practiced and use of ICT in teaching – learning –**

Power point presentations and webinars

### 8. Participation of teachers in academic and personal counseling of students-

Not applicable

### 9. Details of faculty development programmes and teachers who have been benefited during the past two years

None

### 10. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

- Dr Girisha is an Expert, ICMR National Task Force on Lysosomal Storage Diseases
- Dr Girisha is an Advisor, National Advisory Committee, Genetics India
- Dr Girisha is a Member, Organization for Rare Diseases India (ORDI)

### 11. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years.

Sl. No	Name	Institute	Outcome
1.	Prof. Uwe Kornak	Institute of Medical Genetics and Human Genetics, Charité-Universitaetsmedizin Berlin, Augustenburger Platz 1, 13353 Berlin, Germany	One publication and a joint research grant
2.	Prof. Dr. rer. nat. Kerstin Kutsche	Institut für Humangenetik, Universitätsklinikum Hamburg-Eppendorf Campus Forschung, Martinstraße 52 D-20246 Hamburg, Germany	Four publications
3.	Dr Alex R Paciorewski	Paciorkowski Lab, Center for Neural Development & Disease University of Rochester Medical Center, 601 Elmwood Avenue, Room 1-9838, Rochester, NY 14642	-
4.	Dr Geert R Mortier	Department of Medical Genetics, Antwerp University Hospital and University of Antwerp, Antwerp, Belgium	One publication
5.	Dr Stephanie Bielas	3703 Medical Science II, Department of Human Genetics, University of Michigan Medical School, Ann Arbor, MI 48109-	One joint research grant



		1621	
6.	Dr Shubha R Phadke	Professor and Head, Department of Medical Genetics, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow - 226 014	20 joint publications
7.	Dr Ashwin Dalal	Dr Ashwin Dalal, Head, Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics, 4-1-714, Tuljaguda Complex Mozamzahi Road, Nampally, Hyderabad, Andhra Pradesh – 500 001	Several publications and a joint grant
8.	Dr Madhulika Kabra	Department of Pediatrics, Division of Genetics, All India Institute of Medical Science, New Delhi, India	Several joint publications

## 12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years –

### Priority areas:

- Skeletal dysplasia
- Neurodevelopmental disorders
- Prenatal and postnatal malformations

A snapshot of our research activities and publication activities is given in the tables below.

### Ongoing:

Category	Number
Funded research projects	03
Non-funded research projects	Nil
PhD research projects	05
PG research projects	Not Applicable
UG research projects	Not Applicable

### Last 2years (2013-2014):

	2013	2014
Completed funded research projects	01	01
Completed non-funded research projects	Not Applicable	Not Applicable
Completed PhD research projects	Nil	Nil

Completed PG research projects		Not Applicable	Not Applicable
Completed UG research projects		Not Applicable	Not Applicable
Publications	International	05	13
	National	02	02
Books		Nil	Nil
Chapters in books		02	Nil
Conference presentations	International	1	3
	National	10	17

**Our on- going funded research projects are:**

Sl. No	Title	Principal Investigator	Funding agency	Duration	Total amount received
1.	Clinical and molecular evaluation of inherited arthropathies and multiple vertebral segmentation defects	Dr Girisha KM	Indian Council of Medical Research (No. 54/2/2013 – HUM – BMS)	3 Years	8,50,000
2.	Multicentric Collaborative Study of the Clinical, Biochemical and Molecular Characterization of Lysosomal Storage Disorders in India: The Initiative for Research in Lysosomal Storage Disorders	Dr Girisha KM	Indian Council of Medical Research (IRIS ID No.TF-LSD/1/2010-BMS)	3 years	3,79,680
3.	Evaluation of multiplex ligation dependent probe amplification (MLPA) for diagnosis and carrier detection in families with a dystrophinopathy	Dr Girisha KM	Science and Engineering Research Board (No. SERC/LS-0178/2010)	3 years	18, 00,000

4.	Molecular Analysis of Filamin B related Disorders	Mr Abdul Mueed Bidchol	Indian Council of Medical Research (45/10/2013-CMB/BMS)	3 Years	2,68,400
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**Our ongoing PhD research projects are:**

Sl#	Title	Name of student	Name of the guide
1.	Clinical and Molecular Characterization of Indian Patients with Morquio Syndrome	Mr. Abdul Mueed Bidchol	Dr. Girisha K M
2.	Value of fetal autopsy and establishment of normal fetal radiologic anatomy	Ms. Shalini S. Nayak	Dr. Girisha K M
3.	Clinical and molecular evaluation of inherited arthropathies	Ms. Sri Lakshmi Bhavani G	Dr. Girisha K M
4.	Analysis of genes involved in Notch signaling pathway in multiple vertebral segmentation defects	Ms. Smriti	Dr. Girisha K M
5.	Clinical and molecular investigations into developmental abnormalities of corpus callosum	Ms. Malavika Hebbar	Dr. Anju Shukla

**The details of our publications are described below:**

1. Rajasimha HK, Shirol PB, Ramamoorthy P, Hegde M, Barde S, Chandru V, Ravinandan ME, Ramchandran R, Haldar K, Lin JC, Babar IA, **Girisha KM**, Srinivasan S, Navaneetham D, Battu R, Devarakonda R, Kini U, Vijayachandra K, Verma IC. Organization for rare diseases India (ORDI) - addressing the challenges and opportunities for the Indian rare diseases' community. *Genet Res (Camb)*. 2014 Aug 13; 96:e009. doi: 10.1017/S0016672314000111. PubMed PMID: 25579084.
2. Stephen J, Girisha KM, Dalal A, Shukla A, Shah H, Srivastava P, Kornak U, Phadke SR. Mutations in patients with osteogenesis imperfecta from consanguineous Indian families. *Eur J Med Genet*. 2015 Jan; 58(1):21-7. doi: 10.1016/j.ejmg.2014.10.001. Epub 2014 Oct 24. PubMed PMID: 25450603.
3. Agarwal D, Nayak SS, Adiga PK, Phadke SR, Girisha KM. Symmetrical terminal transverse limb deficiencies. *Indian J Pediatr*. 2015 May; 82(5):478-9. doi: 10.1007/s12098-014-1569-2. Epub 2014 Nov 5. PubMed PMID: 25366287.
4. Daly SB, Shah H, O'Sullivan J, Anderson B, Bhaskar S, Williams S, Al-Sheqaih N, Mueed Bidchol A, Banka S, Newman WG, Girisha KM. Exome Sequencing

- Identifies a Dominant TNNT3 Mutation in a Large Family with Distal Arthrogryposis. *Mol Syndromol.* 2014 Aug; 5(5):218-28. doi: 10.1159/000365057. Epub 2014 Jul 8. PubMed PMID: 25337069; PubMed Central PMCID: PMC4188168.
5. 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. GALNS mutations in Indian patients with mucopolysaccharidosis IVA. *Am J Med Genet A.* 2014 Nov; 164A (11):2793-801. doi: 10.1002/ajmg.a.36735. Epub 2014 Sep 22. PubMed PMID: 25252036.
  6. Ansari M, Poke G, Ferry Q, Williamson K, Aldridge R, Meynert AM, Bengani H, Chan CY, Kayserili H, Avci S, Hennekam RC, Lampe AK, Redeker E, Homfray T, Ross A, Falkenberg Smeland M, Mansour S, Parker MJ, Cook JA, Splitt M, Fisher RB, Fryer A, Magee AC, Wilkie A, Barnicoat A, Brady AF, Cooper NS, Mercer C, Deshpande C, Bennett CP, Pilz DT, Ruddy D, Cilliers D, Johnson DS, Josifova D, Rosser E, Thompson EM, Wakeling E, Kinning E, Stewart F, Flinter F, Girisha KM, Cox H, Firth HV, Kingston H, Wee JS, Hurst JA, Clayton-Smith J, Tolmie J, Vogt J, Tatton-Brown K, Chandler K, Prescott K, Wilson L, Behnam M, McEntagart M, Davidson R, Lynch SA, Sisodiya S, Mehta SG, McKee SA, Mohammed S, Holden S, Park SM, Holder SE, Harrison V, McConnell V, Lam WK, Green AJ, Donnai D, Bitner-Glindzicz M, Donnelly DE, Nellåker C, Taylor MS, FitzPatrick DR. Genetic heterogeneity in Cornelia de Lange syndrome (CdLS) and CdLS-like phenotypes with observed and predicted levels of mosaicism. *J Med Genet.* 2014 Oct; 51(10):659-68. doi: 10.1136/jmedgenet-2014-102573. Epub 2014 Aug 14. PubMed PMID: 25125236; PubMed Central PMCID: PMC4173748.
  7. Nayak SS, Kadavigere R, Mathew M, Kumar P, Hall JG, Girisha KM. Fetal akinesia deformation sequence: expanding the phenotypic spectrum. *Am J Med Genet A.* 2014 Oct; 164A (10):2643-8. doi: 10.1002/ajmg.a.36673. Epub 2014 Jul 8. PubMed PMID: 25045026.
  8. Nampoothiri S, Yesodharan D, Sainulabdin G, Narayanan D, Padmanabhan L, Girisha KM, Cathey SS, De Paepe A, Malfait F, Syx D, Hennekam RC, Bonafe L, Unger S, Superti-Furga A. Eight years' experience from a skeletal dysplasia referral center in a tertiary hospital in Southern India: a model for the diagnosis and treatment of rare diseases in a developing country. *Am J Med Genet A.* 2014 Sep; 164A (9):2317-23. doi: 10.1002/ajmg.a.36668. Epub 2014 Jul 14. PubMed PMID: 25044831.
  9. Girisha KM. CFTR mutations in India: need to do more!: geneticist's perspective. *Indian Pediatr.* 2014 Mar; 51(3):177-8. PubMed PMID: 24736905.

10. Schepers D, Doyle AJ, Oswald G, Sparks E, Myers L, Willems PJ, Mansour S, Simpson MA, Frysira H, Maat-Kievit A, Van Minkelen R, Hoogeboom JM, Mortier GR, Titheradge H, Brueton L, Starr L, Stark Z, Ockeloen C, Lourenco CM, Blair E, Hobson E, Hurst J, Maystadt I, Destrée A, Girisha KM, Miller M, Dietz HC, Loeys B, Van Laer L. The SMAD-binding domain of SKI: a hotspot for de novo mutations causing Shprintzen-Goldberg syndrome. *Eur J Hum Genet.* 2015 Feb; 23(2):224-8. doi:10.1038/ejhg.2014.61. Epub 2014 Apr 16. PubMed PMID: 24736733; PubMed Central PMCID: PMC4297897.
11. Stephen J, Shukla A, Dalal A, Girisha KM, Shah H, Gupta N, Kabra M, Dabadghao P, Phadke SR. Mutation spectrum of COL1A1 and COL1A2 genes in Indian patients with osteogenesis imperfecta. *Am J Med Genet A.* 2014 Jun; 164A (6):1482-9. doi:10.1002/ajmg.a.36481. Epub 2014 Mar 25. PubMed PMID: 24668929.
12. Girisha KM, Bidchol AM, Kamath PS, Shah KH, Mortier GR, Mundlos S, Shah H. A novel mutation (g.106737G>T) in zone of polarizing activity regulatory sequence (ZRS) causes variable limb phenotypes in Werner mesomelia. *Am J Med Genet A.* 2014 Apr; 164A (4):898-906. doi: 10.1002/ajmg.a.36367. Epub 2014 Jan 29. PubMed PMID: 24478176.
13. Girisha KM, Abdollahpour H, Shah H, Bhavani GS, Graham JM Jr, Boggula VR, Phadke SR, Kutsche K. A syndrome of facial dysmorphism, cubital pterygium, short distal phalanges, swan neck deformity of fingers, and scoliosis. *Am J Med Genet A.* 2014 Apr; 164A (4):1035-40. doi: 10.1002/ajmg.a.36381. Epub 2014 Jan 23. PubMed PMID: 24458843.
14. Lohan S, Spielmann M, Doelken SC, Flöttmann R, Muhammad F, Baig SM, Wajid M, Hülsemann W, Habenicht R, Kjaer KW, Patil SJ, Girisha KM, Abarca-Barriga HH, Mundlos S, Klopocki E. Microduplications encompassing the Sonic hedgehog limb enhancer ZRS are associated with Haas-type polysyndactyly and Laurin-Sandrow syndrome. *Clin Genet.* 2014 Oct; 86(4):318-25. doi: 10.1111/cge.12352. Epub 2014 Feb 17. PubMed PMID: 24456159.
15. Shah KH, Shailaja S, Girisha KM. Is coloboma a feature of fetal valproate syndrome? *Clin Dysmorphol.* 2014 Jan; 23(1):24-5. doi:10.1097/MCD.000000000000018. PubMed PMID: 24263622.
16. Girisha KM, Bidchol AM, Sarpangala MK, Satyamoorthy K. A novel frameshift mutation in TWIST2 gene causing Setleis syndrome. *Indian J Pediatr.* 2014 Mar; 81(3):302-4. doi: 10.1007/s12098-013-1253-y. Epub 2013 Oct 15. PubMed PMID: 24127007.
17. Dimopoulou A, Fischer B, Gardeitchik T, Schröter P, Kayserili H, Schlack C, Li Y, Brum JM, Barisic I, Castori M, Spaich C, Fletcher E, Mahayri Z, Bhat M, Girisha KM, Lachlan K, Johnson D, Phadke S, Gupta N, Simandlova M, Kabra M, David A, Nijtmans L, Chitayat D, Tuysuz B, Brancati F, Mundlos S,

- Van Maldergem L, Morava E, Wollnik B, Kornak U. Genotype-phenotype spectrum of PYCR1-related autosomal recessive cutis laxa. *Mol Genet Metab*. 2013 Nov; 110(3):352-61. doi:10.1016/j.ymgme.2013.08.009. Epub 2013 Aug 24. PubMed PMID: 24035636.
18. John N, Rajasekhar M, Girisha KM, Sharma PS, Gopinath PM. Multiplex ligation-dependant probe amplification study of children with idiopathic mental retardation in South India. *Indian J Hum Genet*. 2013 Apr; 19(2):165-70. doi:10.4103/0971-6866.116115. PubMed PMID: 24019617; PubMed Central PMCID: PMC3758722.
  19. Girisha KM, Nayak SS, Rawal A, Roopa PS, Shetty J. Jejunal atresia and postaxial polydactyly: a newly recognized phenotype. *Clin Dysmorphol*. 2013 Jul; 22(3):121-3. doi: 10.1097/MCD.0b013e32836303a7. PubMed PMID: 23722701.
  20. Travaglini L, Brancati F, Silhavy J, Iannicelli M, Nickerson E, Elkhartoufi N, Scott E, Spencer E, Gabriel S, Thomas S, Ben-Zeev B, Bertini E, Boltshauser E, Chaouch M, Cilio MR, de Jong MM, Kayserili H, Ogur G, Poretti A, Signorini S, Uziel G, Zaki MS; International JSRD Study Group, Johnson C, Attié-Bitach T, Gleeson JG, Valente EM. Phenotypic spectrum and prevalence of INPP5E mutations in Joubert syndrome and related disorders. *Eur J Hum Genet*. 2013 Oct; 21(10):1074-8. doi: 10.1038/ejhg.2012.305. Epub 2013 Feb 6. PubMed PMID: 23386033; PubMed Central PMCID: PMC3778343.
  21. Vivek G, Shetty RK, Nayak SS, Girisha KM, Naha K. Prenatal diagnosis of absent pulmonary valve confirmed by autopsy. *BMJ Case Rep*. 2013 Jan 30; 2013. pii: bcr2012007997. doi: 10.1136/bcr-2012-007997. PubMed PMID: 23371040; PubMed Central PMCID: PMC3618538.
  22. Bierhals T, Maddukuri SB, Kutsche K, Girisha KM. Expanding the phenotype associated with 17q12 duplication: case report and review of the literature. *Am J Med Genet A*. 2013 Feb; 161A(2):352-9. doi: 10.1002/ajmg.a.35730. Epub 2013 Jan 10. Review. PubMed PMID: 23307502.

### Chapters in Book:

Sl#	Title	Name of the faculty	Book	Publisher
1	Galactosemia	Dr Girish K M	Treatment & Prognosis in Pediatrics	Jaypee Brothers, New Delhi
2	Gaucher Disease	Dr Girish K M	Treatment & Prognosis in Pediatrics	Jaypee Brothers, New Delhi

**13. Placement record of the past students and the contribution of the department to aid student placements.**

Three clinicians have completed advanced training program in clinical genetics and are now consultants

**14. Plan of action of the department for the next five years.**

- To provide state of art diagnostic services to patients with genetic disorders
- To have research collaborations with internationally reputed scientists and universities



**1. Name of the Department: MEDICAL ONCOLOGY- KMC-Manipal.**

**2. Faculty Profile – adequacy & competency of Faculty:**

It provides an idea to undergraduate and medical post graduate students in the management of malignances. This department does not run any courses. There are two faculty members involved in Medical Oncology related patient care. They are competent.

**Faculty list**

Sl. No.	Name	Designation	Qualification	Teaching experience in years
1	Dr. Joseph Thomas	Professor	MBBS, MD	23
2.	Dr. Karthik S. Udupa	Asst. Prof.	MBBS, MD, DM	1

Category	Sanctioned	Filled
Teaching staff	02	02

**3. Student profile – entry level competencies, socioeconomic status, language Proficiency etc.**

Please refer Annexure No. HS 1 for details

**4. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.**

NotApplicable

**5. Trends in the success and drop- out rates of students during the past two years**

NotApplicable

**6. Learning resources of the departments - library, computers, laboratories and other resources**

- 3 desktops +2 laptops with multi functioning printers
- Textbooks of oncology in the department
- Online Library access through the intranet

**7. Modern teaching methods practiced and use of ICT in teaching – learning:**

- Interactive discussions during the postgraduate clinical postings
- Demonstrations during grounds for the postgraduates

**8. Participation of teachers in academic and personal counseling of students:**

Postgraduate teaching during the clinical postings

**9. Details of faculty development programmes and teachers who have benefited during the past two years**

Not applicable

**10. Participation / contribution of teachers to the academic activities including teaching, consultancy and research**

- Monthly multidisciplinary tumor boards
- Active participation in multi-disciplinary seminars
- Teaching postgraduate students
- Guide postgraduate students for dissertations.

**11. Collaboration with other departments/institutions, at the State, National and International levels and their outcome during the past two years.**

Not applicable

**12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:**

Priority areas: neoadjuvant chemotherapy in breast cancer

**Ongoing:**

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	0
PG research projects	1
UG research projects	0

**Last 2 years (2013-2014):**

		2013	2014
Completed funded research projects		0	0
Completed non-funded research projects		0	0
Completed PhD research projects		0	0
Completed PG research projects		1	0
Completed UG research projects		0	0
Publications	International	3	0
	National	1	1
Books		0	0

Chapters in books		0	0
Conference presentations	International	0	0
	National	0	0

### Completed PG research projects

#### Year 2012

Sl. No.	Title	Name of the Student	Guide/ Co-investigator
1.	Clinical profile of hyponatremia	Dr. Vasudha Jain	Dr. Joseph Thomas

#### Year 2013

Sl. No.	Title	Name of the Student	Guide/ Co-investigator
1.	Clinical profile of high risk febrile Neutropenia	Dr. Mohan	Dr. Joseph Thomas

### Ongoing PG research projects – Nil (2013)

The details of our publications are described below:

#### Year 2012

##### International:

1. Hulikal, Narendra; Ray, Satadru; Thomas, Joseph; Fernandes, Donald J. Second Primary Malignant Neoplasms: A Clinicopathological Analysis from a Cancer Centre in India. *Asian Pacific J Cancer Prev*, 13(12), 6087-6091

##### National: Nil

#### Year 2013

##### International:

2. Hulikal, Narendra; Ray, Satadru; Thomas Joseph; Fernandes Donald J., Second Primary Malignant Neoplasms: A Clinicopathological Analysis from a Cancer Centre in India. *Asian Pacific J Cancer Prev*, 13(12), 6087-6091.
3. Narendra Hulikal, Joseph Thomas, Donald J Fernandes, Satadru Ray. Factors that predict pathologic complete response in patient receiving neoadjuvant chemotherapy for locally advanced breast cancer. *J. Clin Oncol* 31, 2013 (suppl; abstract 11588).
4. Spontaneous regression of primary progressive Hodgkin's lymphoma in a pediatric patient: A case report and review of literature. Udupa K., Philip A, Rajendranath R. Sagar T, Majhi U. *Hematol Oncol Stem Cell Ther*. 2013 Sept. – Dec. 6 (3-4): 112-6. doi:10.1016/j.hemonc.2103.06.004. Epub 2013 Oct 9.

**Year 2013****National:**

1. H. Narendra&RohanVinayak& Joseph Thomas, incidental intraoperative discovery of Colonic Growth in a patient with Esophageal Carcinoma – Lessons Learnt ! Indian J Surg (June 2013) 75 Suppl 1): S310-S312.

**Year 2014****National:**

1. Multiple myeloma presenting as mediastinal mass: A case report. Soumya Panda, KarthikUdupa, PrasanthGanesan, VandanaMahajan. J Cancer Res Ther. 2014 Apr-June;10(2):446-8. doi: 10.4103/0973-1482.136686(nat)

**International – Nil****Conference presentation:****Year 2012**

Sl. No.	Name of the faculty	Title of presentation	Co-Author	Details of conference
1.	Dr. Narendra	Timing of surgery in locally advanced breast cancer	Dr. Joseph Thomas	Annual conference of Surgical Oncologist of India, December,

**Year 2013 – Nil.**

Dr. Joseph Thomas

**Research publications 2012 :**

1. Incidental Intra operative discovery of colonic growth in a patient with esophageal carcinoma lesions learnt, Indian Journal of surgery 2012, DOI 10.1007/s-12262-012-0687-1, H.Narendra, RohanVinayak, Joseph Thomas.

Dr. Karthik S. Udupa

**Research publications 2012 :**

1. Leukemic Infiltration of Lung Mimicking Fungal Pneumonia. Basawantrao Malipatil, Prasanth Ganesan, Urmila Majhi, Udupa Karthik, T. G. Sagar; Indian J. Hematol. blood trans. 2012; 30: 65-69.
2. Favourable outcome in a patient with vulvar mucormycosis during acute myeloid leukaemia induction with medical management alone. Udupa K, Ganesan P, Majhi U, Rajendranath R, Sagar TG; Hematol Oncol Stem Cell Ther. 2012; 5(2): 125-65.

3. Unusual involvement of cervix and vulva in a case of chronic lymphocytic leukaemia. K. Udupa, P Ganesan, U Majhi; J Gynecol Oncol. 2012 July; 23(3): 205–206.

**12. Placement record of the past students & the contribution of the department to aid**

**Student Placements.**

Nil

**13. Plan of action of the department for the next five years:**

Not applicable

## PAEDIATRIC SURGERY

### 1. Faculty profile - adequacy and competency of faculty.

There are 3 teaching faculty members in the department, which meets the requirement for both undergraduate and postgraduate training in Paediatric surgery as per the regulatory body. All are well qualified and competent.

Sl.No	Name	Qualification	Designation	Teaching experience in years
1	Dr. Vijay Kumar	MBBS, MS, MCh	Professor & Head	17
2	Dr. P SantoshPrabhu	MBBS, DNB	Assoc. Prof.	8
3	Dr. Sundeep P T	MBBS, MS, MCh	Assoc. Prof.	7
4	Dr. Sijo K John	MBBS, MS	Registrar	-
5	Dr. HarshaAcharya	MBBS, MS.	Registrar	-

Category	Sanctioned	Filled
Teaching staff	3	3
Registrar	1	1
2012-2013		
2013-2014	1	0
2014-2015	1	1

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure No. HS 1 for details.

### 3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

Necessary changes have been made in the curriculum of M.Ch course to comply with regulatory body requirements.

From the academic year 2014-15, M.Ch students are required to submit a thesis on any relevant subject topic under the guidance of a professor in the department.

Students are posted in neonatal ICU to get exposed to neonatal ventilation management and other critical care management in newborns. Students are encouraged to start inter

departmental case discussions with department of Paediatrics, Radiology, Oncology, and Nuclear Medicine etc. Eminent surgeons from other centres are invited as guest faculty to conduct academic sessions, perform complex surgeries and share their experiences providing a wider platform for the students.

#### 4. Trends in the success and dropout rates of students during the past two years.

Sl.No	Registrar	Year	Success Rate	Drop Out
1	M.Ch. Paed.Surgery	2011-12	100%	nil
2	-do-	2012-13	100%	nil
3	-do-	2013-14	100%	nil

#### 5. Learning resources of the departments - Library, Computers, Laboratories and Other resources

Department has a library with more than 200 books in Paediatric Surgery and subscription to 4 journals in Paediatric Surgery. There are 4 desktop computers in the department with printing facilities. All the teaching faculty and M.Ch students have laptop computers with Wi-Fi enabled at the workplace provided by the university. Further online access to various journals and books is enabled via the KMC central library. This can be accessed not only in the department but also at various points in the hospital with internet access. Department has a class room which is equipped with audio visual aids like PowerPoint and multimedia presentation for teaching. There is a CD library containing different surgeries of Paediatric surgery for PG teaching programme.

#### 6. Modern teaching methods practiced and use of ICT in teaching – learning.

The training for MCh students aims to equip the students with up-to-date clinical and practical skills. This is achieved by self study and hands on training in the ward and operation theatres under the active supervision of the faculty members. This is supplemented by academic discussions/seminars, clinical case presentation, journal clubs, bedside teaching and interdepartmental seminars. Students are required to participate in clinical audits and research. They are also encouraged to publish academic papers or present at regional and international conferences, attend skills workshops. The department is equipped with air conditioned classrooms with modern audio-visual units. Computers with internet access is available for the students. Students have online access to many books and journals via the KMC library.

The department also has a collection of instructive master videos of various paediatric surgical procedures performed by faculty and other eminent national and international



surgeons. The department also maintains a digital collection of photographs, radiology images of various paediatric surgical clinical conditions.

#### **7. Participation of teachers in academic and personal counselling of students.**

The teaching faculty actively participates in teaching undergraduate medical students, postgraduate students of general surgery and M.Ch(paediatric surgery) students. For undergraduate students, faculty undertake theory classes as well as bedside clinical teaching. The postgraduate students (General surgery and Paediatric Surgery) work in the hospital under the supervision of the faculty. The teachers also moderate and counsel the M.Ch students in the conduct of seminars, case discussions and journal clubs. Students are encouraged to participate in workshop, present scientific papers in conferences and publish quality papers in the indexed journals. Students are encouraged to maintain a log book for the recordings of 3 year academic activities. Post graduate students are also counselled regarding a career in Paediatric Surgery.

#### **8. Details of faculty development programmes and teachers who have been benefited during the past two years.**

All the faculty members have attended teaching learning programmes conducted by the medical education department as part of faculty development programme. One of the faculty attended research methodology programme conducted by the statistics department. All faculties regularly attend various skills workshops conducted nationally and internationally to get updated on latest surgical management of particular diseases. Faculty also regularly participate in various CMEs, conferences and symposia regionally and internationally.

#### **9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

All the teaching faculties actively participate in the teaching as per the regulatory body requirements. As per the department protocol it includes undergraduates (theory and bedside clinical case discussion), M.S(general surgery) and M.Ch students (seminars, journal club, clinical case discussion and surgical training in the operation theatre). The faculty guides students for their research programme. The department is involved with research projects along with researchers of other department at national and international level.

#### **10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.**

Department has research collaboration with other departments like department of neonatology, general surgery, clinical embryology, college of nursing, clinical

psychology, respiratory therapy, biomedical engineering etc. The faculties jointly with other departments have published articles in national and international journals. The department has participated in a retrospective surveillance study with a national level biotechnology company. The department has collaboration with the international organization like Xerox research institute for ongoing projects.

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Research activities and publication details for the last Two years.

Category	Completed	ongoing
Funded research projects	0	3
Non Funded research projects	1	0
PhD research projects	0	1
UG research projects	4	3
P.G. research projects	0	0

#### Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		1	0	1
Completed PhD research projects		0	0	1
Completed PG research projects		0	0	0
Completed UG research projects		3	0	0
Publications	International	2	0	4
	National	1	0	1
Books		0	0	0
Chapters in books		0	0	0
Conference presentations	International	1	2	1
	National	9	4	2

### Ongoing funded research programme

Sl.No	Title	Investigator	Funding Agency	Amount
1	Cyber vitals for neonatal ICU	Dr Vijay Kumar	Xerox Research Center, Webster,USA	60,000 US \$
2	Spectral Modeling Of Blood Glucose and Biochemicals	Dr Vijay Kumar	Xerox Research Center, Webster,USA	38,000 US \$
3	Evaluation of thermographic and/or hyperspectral imaging modality for screening breast cancer	Dr Vijay Kumar	Xerox Research Center, Webster,USA	50,000 US \$

### Non funded research programme –completed

**Title:** Retrospective surveillance for Intussusception in children aged less than 5 years old in India

**Agency:**Shantha A sanofi company

### Ongoing PhD research projects:

Sl.no	Title	Name of the student	Guide/Co-Guide
1	Effectiveness of Indian classical music therapy on developmental responses of preterm infants admitted to tertiary level neonatal intensive care unit(NICU) of Kasturba Hospital, Manipal.	Sonia R.B D'Souza	Dr Vijay Kumar-Guide

### UG Research Projects

Sl.no	Title	Students	Completed/ Ongoing
1	Chronic Pancreatitis- An institutional review	Manini Tripta	Completed
2	Distal Vaginal agenesis with congenital vesico-vaginal fistula	MedhaChunduru	Completed
3	Intussusception – Pathological lead point and clinical review	VarshaTotadri	Completed
4	Sodium tetradecyl sulfate sclerotherapy in the treatment of rectal prolapse in children	Chandni	completed
5	Has high frequency ventilation made a difference in survival in congenital diaphragmatic hernia	Rishika	ongoing
6	Conservative management of solid organ injury in blunt abdominal trauma in children	Navdeep	ongoing
7	Outcome after splenectomy in Thalessemia	Abhishek	ongoing
8	Esophageal strictures in children. A clinical study	Rupa	Ongoing
9.	Utility of ultrasounds in determingvesicoureteric reflux.	AraniSen	Ongoing
10.	Neutrophil to lymphocyte ratio as a predictor of acute appendicitis.	Samarth Virmani	Ongoing.

#### Details of publication:

1. Neonatal gastric teratoma : A rare entity. BikramKharga, Vijay Kumar, SantoshPrabhu, Sundeep P T, Sijo K John. J ClinDiagn Res. 2014 Jan; 8(1): 185–186
2. Intervention to improve quality of care in Pediatric Surgery. MamathaShivanandaPai, Vijay Kumar;Oman Medical Journal, 27(1),94, 2012.
3. Non-functional adrenocortical carcinoma with foci of osseous metaplasia in a young girl. .Srilatha P S, Alfred, Vijay Kumar ;Iranian journal of pathology. (2012)7 (2), 130 -134

4. Sonographic diagnosis of Fetal suprarenal Masses – A report of two cases :Rajeshwari G Bhat, Vijay Kumar, RanjaniKudva, Parvati V Bhat; Genetic clinics 2012, Volume 5, Issue 3.
5. Effects of surgical stress on early non specific immune response in children.  
 P Santosh Prabhu, S Sridhara, S. Ramesh.  
 Accepted for publications in Indian Journal of Surgery in May 2012 – Published in online on 17<sup>th</sup> June 2012.

#### **Details of Conference Presentation:**

1. Rahulavekar. Longterm outcome after primary ASARP: our experience. Presented at Karnataka State conference of IAPS, Jan – 2010
2. Rahulavekar. Longterm outcome after primary ASARP: our experience. Presented at World congress of paediatric surgery and national conference of Indian association of Paediatric surgery – March 2010 held at AIIMS, Delhi.
3. KanthilathaPai:Glial heterotopias : As a Poster, NUHS Anderson pathology update held at National university, Singapore on Oct. 2011
4. Sonia D'souza:Effectiveness of Indian classical instrumental music on weight gain of preterm infants.International nursing conference – Innovations in nuring education and practice leading to quality care, 28 Nov , 2011 ,held at Muscat.
5. Priyadarshini: Etiology of primary amenorrhea – an audit  
 Poster presentation at advanced infertility management conference, 25 Nov, 2011held at Mumbai.
6. Vijay Kumar: Chronic pancreatitis in children Presented at Karnataka state conference of Indian association of Paediatric Surgery held at Mysore, Jan 2012.
7. Vijay Kumar :Uncommon Duodenal obstruction: Presented at Karnataka state conference of Indian association of Paediatric surgery held at Mysore, Jan 2012
8. MedhaChunduru:Rectovaginal fistula – Post Duhamel complication.  
 Presented at Karnataka state conference of Indian association of Paediatric Surgeryheld at Mysore, Jan 2012.
9. MedhaChunduru: Distal Vaginal agenesis with congenital vesico vaginal fistula:  
 Presented at Karnataka state conference of Indian association of Paediatric surgery held at Mysore, Jan 2012.
10. MamathaPai: Intervention to improve quality of care in Pediatric Surgery  
 3rd international conference of quality management in "health care" Feb 6-8,2012 at Sultan Qaboos University, Oman.
11. MamathaPai:Understanding the domains of parenting stress.  
 Presented at“International Conference on Environmental and Occupational health”.December , 2012. Department of Public Health.Manipal University

12. Sijo K. John: Reoperations following pull-through surgery for Hirschsprung disease and their Outcome Annual Conference of the Indian Association of Pediatric Surgeons –  
Karnataka State Chapter. December, 2012. St. John's Medical College, Bangalore.
13. Sijo K. John :Sequential presentation of bilateral Congenital Eventration of Diaphragm  
Presented as poster at Annual Conference of the Indian Association of Pediatric Surgeons –Karnataka State Chapter. December, 2012. St. John's Medical College, Bangalore
14. BikramKharga:Challenging Cases in Paediatric Urology.  
Presented at Annual Conference of the Indian Association of Pediatric Surgeons – Karnataka State Chapter. December, 2012. St. John's Medical College, Bangalore.
15. BikramKharga: Rare case of Gastric Teratoma  
Presented as poster at Annual Conference of the Indian Association of Pediatric Surgeons –Karnataka State Chapter. December, 2012. St. John's Medical College, Bangalore.

## **12. Placement record of the past students and the contribution of the department to aid student Placements.**

Students after their MCh training have either joined medical colleges or working as consultant paediatric surgeon in private sector. Many are heading Paediatric surgery department in different medical colleges in the different part of India. Couple of them joined for fellowship at Australia and pursuing their carrier there after their fellowship. Couple of them joined corporate hospitals as consultants. Almost all of them are well placed in the society as Paediatric surgeons.

## **13. Plan of action of the department for the next five years.**

1. To improve upon the publication in national and international indexed journals
2. To explore the means to expose students to specialized area of training like advanced laparoscopy, Robotic surgery etc
3. Inviting more guest faculties to talk about their special interest areas in Paediatric surgery
4. To improve upon the collaboration with other department for research activities.
5. To motivate the faculty to get trained in special areas of Paediatric surgery to improve the patient management and student training
6. To maintain research activities and attract more external grants for the research projects.

## PLASTIC SURGERY

### 1. Faculty profile - adequacy and competency of faculty.

There are two teaching faculty which meets the requirement for MBBS and Dental and also for post graduate training as per the regulatory body requirements. The above faculty is competent.

#### Faculty List :

Sl.No.	Name	Qualification	Designation	Total teaching Experience in years
1	Dr. N.C SreeKumar	MBBS, MCh	Professor &Head	1
2	Dr. Thushara K.R	MBBS, MCh	Asst. Prof.	<01

Category	Sanctioned	Filled
Teaching staff	01	01

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Nil

### 3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

Nil

### 4. Trends in the success and dropout rates of students during the past two years.

Nil

### 5. Learning resources of the departments - library, computers, laboratories and other resources.

Recreation room cum museum in Burns Ward.

5 computers, laser all in one printers, 2 inkjet printers, one minor OT and Laser Clinic.

### 6. Modern teaching methods practiced and use of ICT in teaching – learning.

PowerPoint presentations being done.

### 7. Participation of teachers in academic and personal counseling of students.

Done regularly, bedside teaching, hands on operative training.



**8. Details of faculty development programmes and teachers who have been benefited during the past two years.**

Nil

**9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research.**

Nil

**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.**

**Priority areas: WOUND CARE**

INTERDEPARTMENTAL WORK –Ph.D(Thesis) of various departments done under Dr.(Prof.) Pramod Kumar (dept of biochemistry, anatomy etc.)

**12. Placement record of the past students and the contribution of the department to aid student Placements.**

Nil

**13. Plan of action of the department for the next five years.**

- Regularly perform Microsurgery (Free flaps)
- Various areas of research (Stem cell, Wound Healing, Lasers etc.,)

### DEPT. OF SURGICAL ONCOLOGY

#### 1. Faculty Profile – adequacy & competency of Faculty:

It provides an idea to undergraduate & surgical post graduate students in the management malignancies. It does not run any courses. There is one faculty and one Senior Resident involved in Surgical Oncology related patient care.

#### Faculty list

Sl. No	Name	Qualification	Designation	Teaching Experience in years
1	Dr.Satadru Ray	MBBS, MS, MCh (Surg.Onco.)	Professor & Head	17
2	Dr. VarunPatnam	MBBS, MS	Senior Resident	<01

Category	Sanctioned	Filled
Teaching staff	02	02

#### 2. Student profile – entry level competencies, socioeconomic status, language Proficiency etc.

Please refer Annexure No. HS 1 for details

#### 3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

Not applicable

#### 4. Trends in the success and drop- out rates of students during the past two years

Not applicable

#### 5. Learning resources of the departments - library, computers, laboratories and other resources

The department has 4 desktop computers connected with internet. The university has also provided the faculty members with laptops Wi-Fi enabled within the campus. The university digital library with multiple e-books & e-journals can be accessed from the department.

It has a minor – OT which caters for doing minor procedure like biopsy, secondary suturing etc.

## 6. Modern teaching methods practiced and use of ICT in teaching – learning:

Though the department does not conduct any courses. Medical undergraduate students, General Surgery, OBG, Oral surgery & Oral Medicine & Radiology Post graduate students learn/ visit/work in our department on rotation basis for short period. We also provide an idea regarding the complex surgeries performed & Peri operative care to be given to the patients of nursing & physiotherapy students.

- We teach the above students with lecture classes.
- Student active participation is necessary in the learning process, hence we give home work to the students to learn.
- In lecture classes we use A-V aids, show students clinical & operative photographs, Pictorial diagrams operative video clips. This makes them understand the subject better.
- Bed side clinical discussion is done routinely which makes students understand & think regarding the disease process & its management.
- Small project works / case report writing are given to interested students to encourage the aptitude for research & scientific writing.

The teaching – learning methods used are

1. Interactive lectures
2. Clinical Demonstration
3. Bed-side Discussion
4. Operative Demonstration

## 7. Participation of teachers in academic and personal counseling of students:

Not Applicable

## 8. Details of faculty development programmes and teachers who have been benefited during the past two years

The faculty members have attended programmes pertaining to teaching – learning, evaluation & research methodologies in the past two years, conducted by the university.

The faculty members have attend CME's, conferences & workshops in the past two years.

## 9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are involved in teaching UG/PG students.

We participate in research work.

### 10. Collaboration with other departments / institutions, at the State, National and International levels and their outcome during the past two years

The department has joined hands with “Center for LASER spectroscopy”, Manipal Life Sciences campus, Manipal to study about the LASER signature patterns of Tumors, particularly breast and oral cancer.

We have also collaborated with “AMBRYX Bio technology, California, USA” to study the role of milk proteins in reducing inflammatory burden in head & neck malignancies.

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

#### Head & Neck Cancer, Breast Cancer & Ovarian Malignancies.

A snapshot of our research activities and publication activities is given in the tables below.

#### Ongoing:

Category	Number
Funded research projects	1
Non-funded research projects	0
Ph.D. research projects	0
PG research projects	0
UG research projects	0

#### Last 2 years (2013-2014):

		2013	2014
Completed funded research projects		0	0
Completed non-funded research projects		0	0
Completed PhD research projects		0	0
Completed PG research projects		0	0
Completed UG research projects		0	0
Publications	International	0	0
	National	0	0
Books		0	0
Chapters in books		0	0
Conference presentations	International	0	0
	National	0	0

**Ongoing projects:**

Sl.No.	Title	Name of Student	Guide / Co-investigator
1	Pulsed laser induced photo acoustic spectroscopy (PLPAS) study of the changes in breast tumor microenvironment and tumor growth : An Ex-Vivo Experimental study	Mallika Priya	Dr.Satadru Ray
2	A double blind placebocontrolled crossover clinical observational study to assess the health benefits of a dietary supplement AX – 3 on patients with chronic inflammation and oxidative stress.	-	Dr.Satadru Ray

The details of our publications are described below:

**International/national:**

Year 2013 : Nil

**International/national:**

Year 2014 : Nil

## 12.Placement record of the past students & the contribution of the department to aid Student Placements.

Nil

## 13. Plan of action of the department for the next five years:

1. To improve teaching in a more interactive manner to guide students.
2. Assigning small research project work to students.
3. To improve patient care by extending the facilities such as Isolated limb perfusion, Scintigraphicsentinel lymph node mapping, hyper thermic intra peritoneal chemotherapy.

**1. Name of the Department: CLINICAL EMBRYOLOGY, KMC – Manipal.**

**2. Faculty Profile - adequacy and competency of faculty**

The Department has five competent faculty to meet the under graduate, Postgraduate (M.Sc. and Certificate program in Clinical Embryology), PhD and other allied health sciences teaching/training as per regulatory body requirements. In addition to this adjunct faculties from Italy are invited to teach research.

**Faculty List**

Sl No.	Name	Qualification	Designation	Teaching experience in years
1	Dr. Satish Kumar Adiga	PhD	Professor & Head	18
2	Dr. Guruprasad Kalthur	PhD	Assoc. Prof.	10
3	Ms. Shubhashree Uppangala	MSc	Lecturer	3
4	Ms. Sandhya Kumar M V	MSc	Lecturer	3
5	Mr. Vikram Jeet Singh	MSc	Lecturer	1

Category	Sanctioned	Filled
Teaching staff	5	5

**3. Student profile – entry level competencies, socioeconomic status, language proficiency etc....**

MSc and PhD in Clinical Embryology: Admission for MSc Clinical Embryology is conducted through University screening / entrance test. Six students are released per year for the MSc Clinical Embryology program with good undergraduate academic record from recognized universities. The number of PhD admissions depends on the availability of openings under the university recognized PhD guides. PhD students are selected based on interview by the selection committee. Most of the students here belong to the upper middle or upper socioeconomic strata. Usually their parents are professionals themselves. Our medium of instruction and communication is English and all of our students have good command over the language.

**4. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes**

**A. Undergraduate teaching:**

**MBBS teaching:**

- Learning objectives for practical were made
- Understanding clinical significance of semen analysis/reporting and documenting the observation made during their posting.

**B. Postgraduate teaching:****MSc and PhD in Clinical Embryology:**

- The 2 year M.Sc. program is designed with a curriculum to facilitate comprehensive understanding of all aspects of Clinical Embryology and Assisted Reproductive Technology (ART). During the course tenure the students are exposed to extensive practical training alongside interactive class room sessions to solidify their basic understanding of the subject. The students are also encouraged to give a number of seminars and journal presentations to help improve their communication and presentation skills. The research driven curriculum aims to inspire in the students to an awareness of the practical applications of current breakthroughs in the field.
- The PhD program aims to generate scientists for a career in academia as well as industry.
- **The learning methods used are:**
  - Interactive lectures
  - Small group learning
  - Seminars/assignments
  - Demonstration
  - Laboratory rotations
  - Post-graduate research dissertation.
  - Two weeks advance international training in ART for outstanding students.
  - One to one training
  - Students here are encouraged to maintain a record book where they write down various laboratory findings
  - Students are encouraged to present their research work in forms of oral and poster presentations in national and international conferences.
- Teaching faculty meetings are conducted weekly once to discuss and streamline to UG and PG training. In addition to the regular classes an integrated teaching program is introduced where in teachers give a problem asserted approach to a particular topic.

**Certificate program in Clinical Embryology:**

Launched in 2014

Four week-long training program is designed to provide both theoretical understanding and practical training in various aspects of Clinical Embryology.

Training program consists of didactic lectures, discussions with experts, hands on training and exposure to various practical procedures used in an assisted reproductive



technology (ART)laboratory. Successful candidates will be awarded a Certificate of Training in Clinical Embryology by Kasturba Medical College, Manipal.

#### 5. Trends in the success and dropout rates of students during the past two years.

Course	Pass Percentage		Drop Outs	
	2012-13	2013-14	2012-13	2013-14
MSc Clinical Embryology	100%	100%	0	0

No drop out

#### 6. Learning resources of the departments - library, computers, laboratories and other resources

- Department has a library of its own, situated within the department for the convenience of faculty and postgraduates so that books are available for quick reference. Books are regularly updated so that the most recent editions are available for reference and the new releases are added up periodically.
- Internet terminals connected through network are available for the students to access online journals/text books from KMC Health Science Library.
- Laboratories are well-equipped for research and training. Students are well trained in Andrology, In vitro fertilization, Intra cytoplasmic sperm injection (ICSI), Laser assisted hatching, Embryo and gamete cryopreservation. We also have centralized university animal facility for various research activities.
- For imparting theoretical knowledge a prescheduled teaching program is made on module basis to include case discussions, seminars, journal clubs, panel discussions, guest lectures and staff lectures. For all these activities a teaching faculty is assigned as a moderator to guide the students and facilitate supervised learning.
- Representative from the students is made to solve the difficulties they experience during their academic training.
- The PhD laboratory supports about PhD scholars and is well equipped with the state of the ARTequipments.

#### 7. Modern teaching methods practiced and use of ICT in teaching – learning

##### **Clinical Embryology:**

All learning methods used are: interactive lectures, seminars/assignments, demonstration, and laboratory rotations.

- Teaching faculty extensively uses Audio visual aids like Power Point and multi-media for teaching.
- Students are encouraged to perform research. During study period every student enrolled student has to perform clinically relevant research work which is compiled and submitted before the final examination. The experimental prospective research is carried out under the guidance of faculty. Students are encouraged to present their findings at various national and regional conferences. Student participation in all postgraduate activities such as Seminars, Group discussion, Journal club is mandatory and provides extensive training to the students in oral communication skills.
- Feedback about progress in learning is given to students through documented sessional examinations and practical examinations.

### 8. Participation of teachers in academic and personal counseling of students

**Clinical Embryology:** All faculties are engaged actively in the postgraduate teaching and research. Every attempt is made to make the topic simple and interesting. Students are encouraged to clarify their doubts during the lecture or later. The postgraduate students carry out regular laboratory work under supervision of faculty member. The postgraduates undertake the prescribed dissertation work under the guidance of their allotted guide and also do voluntary researches work under suitable faculty. Students are encouraged to present paper/poster during national and International conference. Students are guided by faculty to publish their research findings in international indexed journals.

Teaching and training method is on one to one basis which provides individual attention to the students in enhancing their skill and knowledge. Slow learners are given special attention to overcome their learning difficulties. Every effort is made to provide them additional opportunities for improvement by personal discussion and relevant explanations.

### 9. Details of faculty development programs and teachers who have been benefited during the past three years.

#### Fellowships/Observer ship

#### Academic awards received in the year 2012

Sl. No.	Recipient	Award	Awarding Society	Topic
1	Dr. Satish Kumar Adiga	Dr.TMA Pai endowment chair (2012)	Manipal University	Human Fertility & Clinical Embryology

2	Dr. Satish Kumar Adiga	Humboldt Foundation Alumni Fellowship (Germany)	Humboldt Foundation, Germany	Research collaboration with University of Muenster
3	Dr. Satish Kumar Adiga	Visiting professorship at Max Delbrück Center (MDC) Berlin, Germany From 1 <sup>st</sup> April to 1 <sup>st</sup> June 2012	Berlin, Germany	Take up joint research in the area of molecular embryology
4	Dr. Satish Kumar Adiga	Best research award (2012)	Vision Group on Science and Technology Government of Karnataka	Transgenerational changes in somatic and germ line genetic integrity of first-generation offspring derived from the DNA damaged sperm
5	Dr. Guruprasad Kalthur	CREST (Cutting-edge Research Enhancement and Training Technology) fellowship	Department of Biotechnology, Govt. of India	Telomerase activity in oocytes and early embryos
6	Dr. Guruprasad Kalthur	Visiting professorship	Department of Physiology, National University of Singapore, Singapore.	
7	Mr Dayanidhi Kumar	Dr. TMA Pai Gold Medal for excellence in Medical Research	Manipal University	Ejaculate fractions of asthenozoospermic and teratozoospermic patients have differences in the sperm DNA integrity

**Academic awards received in the year 2013**

Sl. No.	Recipient	Award	Awarding Society	Topic
1	Dr. Satish Kumar Adiga	UICC – International Cancer Technology Transfer Fellowship-2013	Switzerland - to undergo Oncofertility training at Karolinska Institute, Sweden in October 2013.	Oncofertility
2.	Dr. Satish Kumar Adiga	Visiting Scientist to Karolinska Institute, Stockholm, Sweden	Stockholm, Sweden	To work on a research project entitled “Fertility preservation in cancer affected prepubertal boys” (October 2013)
3.	Dr. Satish Kumar Adiga	Dr TMA Pai Endowment Chair in Human fertility and Clinical Embryology (2013)	Manipal University	
4.	Dr. Satish Kumar Adiga	Award of appreciation for research publications (2013)	Kasturba Medical College, Manipal University	
5.	Dr. Satish Kumar Adiga	Sir CV Raman Young Scientist’s State Award – 2012	Government of Karnataka for the year 2012.	For excellence in Medical Research
6.	Dr .Guruprasad Kalthur	Distinguish alumni award	Kasturba Medical College, Manipal University	For research publications – 2013
7.	Dr. Guruprasad Kalthur	Award of appreciation		for research publications - 2013

8.	Dr. Guruprasad Kalthur	Visiting Scientist to University of Naples, Italy	University of Naples, Italy	To work on a research project entitled “Fertility preservation in cancer affected prepubertal boys” (December 1 – 12, 2013)
9.	Dr. Guruprasad Kalthur	Award for research publication (ARP)	Vision Group on Science and Technology (VGST), Department of IT, BT, Science and Technology, Govt. of Karnataka.	For the year 2012-13 and 2013-14
10.	Ms. Shubhashree Uppangala	Dr TMA Pai gold medal	Kasturba Medical College, Manipal University	For excellence in Medical Research for the year – 2013
11.	Ms. Shubhashree Uppangala	ICMR Travel award	To attend International Conference at Berlin, Germany March 21-23, 2013	For the research paper “PVP based sperm immobilization medium induces in situ DNA fragmentation in frozen thawed spermatozoa during ICSI”
12.	Ms Shubhashree Uppangala	Technology transfer fellowship by Dr TMA Pai Endowment Chair	Manipal University	Oncofertility training at Karolinska Institute, Stockholm, Sweden

**Academic awards received in the year 2014**

Sl.No.	Recipient	Award	Awarding Society	Topic
1.	Dr. Satish Kumar Adiga	Dr TMA Pai Endowment Chair in Human fertility and Clinical Embryology (2014-15)	Manipal University	
2.	Dr. Satish Kumar Adiga	Felicitation for outstanding work in the field of embryology	Academy of Clinical Embryologist (ACE) during International Conference in Indore on 8 <sup>th</sup> August 2014	
3.	Dr. Satish Kumar Adiga	Germany Research Foundation (DAAD), Germany	Research Ambassador (German Academic Exchange Service, DAAD)	
4.	Dr. Guruprasad Kalthur	3 <sup>rd</sup> prize for paper presented on “Effect of repeated superovulation on the developmental potential of mouse embryos in vitro”	10 <sup>th</sup> Annual National Conference of Indian Fertility Society at Pune December 19 – 21, 2014	
5.	Ms. Shubhashree Uppangala	First Prize for oral presentation under health science category	Manipal Research Colloquium Manipal University April 11 & 12, 2014	For the research paper “Use of NMR technology in analyzing embryo metabolism.”
6.	M.s Shubhashree Uppangala	First prize for paper presentation	3 <sup>rd</sup> International conference of Academy of Clinical Embryologists (ACE 2014) held at Indore	For the research paper “Influence of sperm DNA fragmentation on human

				preimplantation embryo metabolism”
7.	Mr. Vikram Jeet Singh	Dr TMA Pai gold medal	Kasturba Medical College, Manipal University	For excellence in Medical Research for the year - 2014

**10. Participation / contribution of teachers to the academic activities including teaching , consultancy and research**

**11. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years**

**Inter-institutional:**

Sl. No.	Collaboration with	Our faculty	Project
1	Centre for Molecular Physics (CAMP)	Dr. Satish Kumar Adiga	Metabolmics
2	Manipal College of Pharmaceutical Sciences	Dr. Guruprasad Kalthur	

**National/Collaborators (Clinical Embryology):**

Sl. No	Name of collaborators	Address	Project details
1	Dr. Hanudatta S. Atreya	Indian Institute of Sciences, Bangalore	Influence of various infertility conditions on pre-implantation embryo metabolism: NMR based non-invasive approach to assess embryo quality
2	Dr. Prashanth Naik	Department of Bioscience, Mangalore University	Effect of 4-Amino-1,2,4-triazin-5-ones and its derivatives on spermatogenesis of Swiss albino mice
3	Dr. Jagadeesh Prasad Dasappa	Department of Chemistry, Mangalore University	Effect of 4-Amino-1,2,4-triazin-5-ones and its derivatives on spermatogenesis of Swiss albino mice



4	Dr. Srinivas Mutalik	Manipal college of pharmacological Sciences, Manipal University	Fertility preservation using Moringa oleifera Leaf extract in Mice treated with Chemotherapeutic Agents and its Mechanism of Action
5	Dr. H Krishnamoorthy	National Center of Biological research (NCBS), Bangalore	Effect of occupational radiation exposure on semen characteristics and DNA integrity in radiation

#### International collaborators (Clinical Embryology):

Sl. No	Name of collaborators	Address	Project details
1	Prof Dr. Stefan Schlatt	Centre for Reproductive Medicine and Andrology, University of Muenster, Germany	Male oncofertility
2	Prof Ricardo Talevi	University of Naples Federico, Italy	Ovarian biology and Postgraduate training program
3	Dr. Sjoerd Repping	Amsterdam Medical Centre, Amsterdam	Postgraduate training program
4	Dr Jan Stukenborg	Karolinska Institute 171 76 Stockholm	Collaborative research
5	Dr. Prakash Hande	National University of Singapore, Singapore	Cellular changes in oocytes and somatic cells subjected to superovulation
6	Dr. Sjoerd Repping	Amsterdam Medical Centre, Amsterdam	Postgraduate training program
7	Dr. Maria Koeftter	University of Bonn, Germany	Postgraduate training program
8	Dr Lalit Kumar	Department of Woman and Child Health, Karolinska Institute 171 76 Stockholm	Modulation of fertility by cytokines- Using an <i>in vitro</i> human embryos model

## 8. 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: Andrology, Onco-fertility, Reproductive biology, Gynecological Oncology, embryo metabolomics, cryopreservation and reproductive toxicology,
- Snap shot of research activities

### Ongoing:

Category	Number
Funded research projects	7
Non-funded research projects	0
PhD research projects	5
PG research projects	12
UG research projects	0

### Last 3 years (2012-2014)

Category		2012	2013	2014
Completed funded research projects		2	2	0
Completed Non-funded research projects		0	0	0
Completed PhD research projects		0	0	1
Completed PG research projects		6	6	6
Completed UG research projects		0	0	2
Publications	National	0	0	3
	International	8	5	9
Books		0	0	0
Chapters in books		2	2	2
Conference presentations	National	14	6	11
	International	4	14	8

The detailed outline of projects is given below:

Ongoing funded research projects:

Sl. No.	Title	Principal Investigator	Funding Agency	Total amount received
1	Evaluation of Laser manipulated embryos for their hatching potential, metabolic changes and laser induced effects	Dr. Satish Kumar Adiga	ICMR	25,00,000
2	Optimizing noninvasive markers for embryo selection	Dr Satish Kumar Adiga	ICMR	7,32,000
3	Intermediates of calcium signal process as oocytes activating agents and development an optimum culture medium for mouse parthenotes	Dr. Guruprasad Kalthur	DBT	10,00,000
4	Fertility preservation using Moringa oleifera leaf extract in mice treated with Chemotherapeutic agents and its mechanism	Dr. Guruprasad Kalthur	ICMR	18,00,000
5	Effect of biotin supplementation to sperm wash media on the enhancement of sperm function and pregnancy outcome in intrauterine insemination programme	Dr. Guruprasad Kalthur	ICMR	18,00,000
6	Effect of antituberculosis drugs on the gamete functional physiology, fertility potential and pre-implantation embryo developmental potential in mouse	Dr. Guruprasad Kalthur	ICMR	20,00,000
7	Repeated superovulation induced changes in the oocytes, embryos and somatic cells	Dr. Guruprasad Kalthur	SERB	23,00,000

**Ongoing non funded research projects:****Completed funded research projects:**

Sl. No.	Title	Principal Investigator	Funding Agency	Total amount received
1	Evaluation of sperm chromatin modification, sperm methylation errors, and reproductive toxicity in radiation health workers.	Dr. Satish Kumar Adiga	ICMR	15,00,000
2	AVH equipment grant Germany	Dr. Satish Kumar Adiga	AVH foundation Germany	12,00,000
3	The Impact of Sperm DNA Damage on the Embryonic Genomic Instability and Reproductive Outcome in Infertile patients	Dr. Satish Kumar Adiga	ICMR	4,00,000
4	The impact of chromosomal and sub-Chromosomal sperm abnormalities on the embryonic development and assisted reproductive treatment (ART) outcome	Dr. Satish Kumar Adiga	DST	35,00,000
5	Intermediates of calcium signal process as oocytes activating agents and development of an optimum culture medium for parthenotes	Dr. Guruprasad Kalthur	DBT	10,00,000

**Our ongoing PG (MSc Clinical Embryology) research projects: Year 2013**

Sl. No	Thesis Title	Name of the student	Guide
1.	Effect of ejaculatory abstinence on semen quality and sperm functional characteristics	Antony Tobin Thomas	Dr Satish Kumar Adiga
2.	Influence of protein supplementation in sperm wash medium on functional and genetic integrity of spermatozoa	Sooryagayathri N	Dr Satish Kumar Adiga
3.	Optimizing prepubertal testicular tissue cryopreservation	Bageshree Jhala	Dr Satish Kumar Adiga

4.	Effect of Zinc oxide nanoparticle on gamete function and embryo development	Deepak Raj Urs	Dr Guruprasad Kalthur
5.	Morin as human sperm function enhancer	Harshith	Dr Guruprasad Kalthur
6.	Effect of metformin on early embryo development	Pooja Agarwal	Dr Guruprasad Kalthur

#### Our ongoing PG (MSc Clinical Embryology) research projects: Year 2014

Sl. No	Title	Name of the student	Guide
1.	Impact of diet on seminal anti-oxidants and sperm functional characteristics	Ashok Kumar Jha	Dr. Satish Kumar Adiga
2.	Impact of vitrification on the functional competence of IVM oocytes from pre pubertal mice	Sharma Kashish	Dr. Satish Kumar Adiga
3.	Impact of vitrification on the apoptotic response of IVM	Gail Marjorie Fernandes	Dr. Satish Kumar Adiga
4.	Application of zinc nanoparticles in cryopreservation of human spermatozoa	Ann Vazhamvelil Isaac	Dr. Guruprasad Kalthur
5.	Effect of repeated superovulation on DNA integrity of mouse bone marrow	Supreet Pal Singh Kumar	Dr. Guruprasad Kalthur
6.	Effect of epigallocatechin-3-gallate (EGCG) on methyl parathion	Rhea Dee Rasquinha	Dr. Guruprasad Kalthur

#### Our completed PG (MSc Clinical Embryology) research projects: Year 2012

Sl. No	Thesis Title	Name of the student	Guide
1	Comparison of ovarian tissue slow freezing and vitrification on oocyte structural and DNA integrity	Freya Mathias	Dr. Satish Kumar Adiga
2	Comparison of double and multiple density gradients for recovery of healthy sperm fraction	Shirish Kalia	Dr. Satish Kumar Adiga
3	Evaluation of sperm viability assays in normal and abnormal ejaculates	Yuvarajsinh G. Thakore	Dr. Satish Kumar Adiga

4	Effect of biotin and pentoxifylline on pre-implantation embryo development in vitro	Shruthi R	Dr. Guruprasad Kalthur
5	Effect of methyl parathion on female gametes of Swiss albino mice	Vikram Jeet Singh	Dr. Guruprasad Kalthur
6	Effect of zinc supplementation to human ejaculate prior to cryopreservation on sperm function and DNA integrity	Aditi Kotdawala	Dr. Guruprasad Kalthur
7	Effect of platelet activating factor on in vitro maturation of mouse oocytes	Carol Rubina D'Souza	Dr. Guruprasad Kalthur

### Our completed PG (MSc Clinical Embryology) research projects: Year 2013

Sl. No	Thesis Title	Name of the student	Guide
1.	Liposomes of soy lecithin & cholesterol as extender in cryopreservation of testicular spermatozoa	Sonu T. Lukose	Dr. Guruprasad Kalthur
2.	Influence of gum Arabic on in vitro maturation of Mouse oocytes	Jency Mathew	Dr. Guruprasad Kalthur
3.	Biotin enhances sperm motility in asthenozoospermic semen sample and developmental potential of mouse embryos	Sandesh Kumar Patil	Dr. Guruprasad Kalthur
4.	Effect of various concentrations of human serum albumin (HSA ) supplementation to sperm preparation media on sperm characteristics	Pallavi Menon	Dr. Satish Kumar Adiga
5.	Effect of therapeutic viability assays on heat shock proteins expression and DNA integrity of fresh & frozen human spermatozoa	Yamini Asokan	Dr. Satish Kumar Adiga
6.	Influence of ovarian tissue slow freezing & vitrification protocols on the functional competence and DNA integrity of oocytes	Sam Sudhakaran	Dr. Satish Kumar Adiga

### Our completed PG (MSc Clinical Embryology) research projects: Year 2014

Sl. No	Thesis Title	Name of the student	Guide
1.	Effect of sperm derived factors on the developmental dynamics of parthenogenetically derived embryos	Shahin Aboobacker	Dr. Guruprasad Kalthur
2.	Association between serum estradiol level and expression of HSP's and OGG1 genes in granulosa cells of patients undergoing ART.	Anusha Shenoy	Dr. Guruprasad Kalthur
3.	Application of hydroxypropyl methylcellulose (HPMC) in human semen cryopreservation	Yashaswini Shenoy	Dr. Guruprasad Kalthur
4.	Effect of Moringa oliefera leaf extract on the fertility potential of male mice treated with anticancer agent cyclophosphamide	Aarti Vadinkar	Dr. Guruprasad Kalthur
5.	Effect of intracytoplasmic sperm injection on the functional and genetic integrity of oocytes	Shilly R Dhiman	Dr. Satish Kumar Adiga
6.	Effect of ejaculatory abstinence period on sperm genetic and epigenetic integrity	Sherine Eleza Mathai	Dr. Satish Kumar Adiga

### Completed PhD research projects are:

Sl. No	Thesis Title	Name of the student	Guide
1.	Effect of occupational radiation exposure on semen characteristics and DNA integrity in radiation health Workers.	Mr. Dayanidhi Sharma	Dr. Satish Kumar Adiga

### Ongoing PhD research projects are:

Sl. No	Thesis Title	Name of the student	Guide
1	Influence of various infertility conditions on pre-implantation embryo metabolism : NMR based	Ms. Shubhashree Uppangala	Dr. Satish Kumar Adiga



	non-invasive approach to assess embryo quality		
2	Optimizing non-invasive markers for embryo selection	Ms. Fiona Olivitta D'Souza	Dr. Satish Kumar Adiga
3	Effect of assisted hatching on developmental potential of the embryo and reproductive outcome	Mr. Sachin D Honguntikar	Dr. Satish Kumar Adiga
4	Use of calcium signaling molecules in artificial oocyte activation and understanding the early developmental dynamics of parthenotes	Ms. Ramya Nair M.T.	Dr. Guruprasad Kalthur

**PG (MSc Clinical Embryology) Conference presentation guided by faculty: 2013**

Sl.No	Title(Paper/poster)	Conference detail	PG student/ faculty
1	Poster: Effect of different ovarian tissue cryopreservation protocols on the functional competence of oocytes and their DNA integrity	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa February 16-18, 2013	Mr Sam Sudhakaran co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
2	Poster: Influence of ovarian tissue slow freezing and vitrification protocols on the functional competence and DNA integrity of oocytes	Mini Symposium on "Testicular Research: From Laboratory to Clinic" at Manipal April 13, 2013	Mr Sam Sudhakaran co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
3	Poster: Influence of ovarian tissue slow freezing and vitrification protocols on the functional competence and DNA integrity of oocytes	International Humboldt Kolleg on Bench to Bedside Translational	Mr Sam Sudhakaran co-authored by Dr Satish Kumar Adiga, Dr

		Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013	Guruprasad Kalthur, Ms Shubhashree Uppangala
4	Poster: Effect of therapeutic viability assays on heat shock proteins expression and DNA integrity of fresh and frozen human spermatozoa	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa February 16-18, 2013	Ms Yamini Asokan co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
5	Poster: Effect of therapeutic viability assays on heat shock proteins expression and DNA integrity of fresh and frozen human spermatozoa	Mini Symposium on “Testicular Research: From Laboratory to Clinic” at Manipal April 13, 2013	Ms Yamini Asokan co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
6	Poster: Effect of Gum Arabic and Lipoic acid on in vitro maturation and developmental potential of mouse oocytes.	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa February 16-18, 2013	Ms Jency Mathew co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur
7	Poster: Effect of Gum Arabic and Lipoic acid on in vitro maturation and developmental potential of mouse oocytes.	Mini Symposium on “Testicular Research: From Laboratory to Clinic” at Manipal April 13, 2013	Ms Jency Mathew co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur
8	Poster: Liposomes of soy lecithin and cholesterol as extender in cryopreservation of testicular sperm	Indian society of Assisted Reproduction	Mr Sonu T Lukose co-authored by Dr Satish Kumar

		(ISAR) at Rourkela, Orissa February 16-18, 2013	Adiga, Dr Guruprasad Kalthur
9	Poster: Biotin enhances sperm motility in asthenozoospermic semen sample and developmental potential of mouse embryos.	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa February 16-18, 2013	Mr Sandesh Patel co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur
10	Poster: Biotin enhances sperm motility in asthenozoospermic semen sample and developmental potential of mouse embryos	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013	Mr Sandesh Patel co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur
11	Poster: Effect of various concentrations of human serum albumin (HSA) supplementation in sperm preparation media on sperm characteristics.	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa February 16-18, 2013	Ms Pallavi Menon co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
12	Poster: Effect of intracytoplasmic sperm injection (ICSI) on the genetic and functional integrity of oocytes.	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits	Ms Shilly R Dhiman co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree

		of interdisciplinary collaboration” at Manipal November 15-17, 2013	Uppangala
13	Poster: Application of Hydroxypropyl Methylcellulose (HPMC) in human semen cryopreservat	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013	Ms Yashaswini Shenoy co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur
14	Poster: Association between HSP70 expression in granulosa cells and human embryonic development in patients undergoing ART	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013	Ms Anusha Shenoy co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
15	Poster: Effect of ejaculatory abstinence on human sperm genetic and epigenetic integrity	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of	Ms Sherine Eleza Mathai co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree

		interdisciplinary collaboration” at Manipal November 15-17, 2013	Uppangala
16	Poster: Effect of Cyclophosphamide on fertility potential of male mouse	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013	Ms Aarti Vadinkar co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
17	Poster : Effect of sperm derived factors on the developmental dynamics of parthenogenetically derived embryos.	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013	Mr Shahin Aboobacker co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala

**PG (MSc Clinical Embryology) Conference presentation guided by faculty :  
2014**

Sl.No	Title(Paper/poster)	Conference detail	PG student/ faculty
1	Poster: Effect of intracytoplasmic sperm injection (ICSI) on the genetic and functional integrity of oocytes.	19 <sup>th</sup> National Conference of Indian Society for Assisted Reproduction at Ahmedabad from 14 <sup>th</sup> to 16 <sup>th</sup> February 2014	Ms Shilly R Dhiman co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
2	Poster: Application of Hydroxypropyl Methylcellulose (HPMC) on human cryopreservation	19 <sup>th</sup> National Conference of Indian Society for Assisted Reproduction at Ahmedabad from 14 <sup>th</sup> to 16 <sup>th</sup> February 2014	Ms Yashaswini Shenoy co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur
3	Poster: Association between serum estradiol level and expression of HSP70 and OGG1 genes in granulosa cells of patients undergoing ART.	19 <sup>th</sup> National Conference of Indian Society for Assisted Reproduction at Ahmedabad from 14 <sup>th</sup> to 16 <sup>th</sup> February 2014	Ms Anusha Shenoy co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
4	Poster: Effect of ejaculatory abstinence on human sperm genetic and epigenetic integrity	19 <sup>th</sup> National Conference of Indian Society for Assisted Reproduction at Ahmedabad from 14 <sup>th</sup> to 16 <sup>th</sup> February 2014	Ms Sherine Eleza Mathai co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur, Ms Shubhashree Uppangala
5	Poster: Trans-generational genomic instability induced by anticancer agent Cyclophosphamide.	19 <sup>th</sup> National Conference of Indian Society for Assisted Reproduction at Ahmedabad	Ms Aarti Vadinkar co-authored by Dr Satish Kumar Adiga, Dr

		from 14 <sup>th</sup> to 16 <sup>th</sup> February 2014	Guruprasad Kalthur
6	Poster : Effect of sperm derived factors on the developmental dynamics of parthenogenetically derived embryos.	19 <sup>th</sup> National Conference of Indian Society for Assisted Reproduction Ahmedabad from 14 <sup>th</sup> to 16 <sup>th</sup> February 2014	Mr Shahin Aboobacker co-authored by Dr Satish Kumar Adiga, Dr Guruprasad Kalthur

### PG (MSc Clinical Embryology)

#### Awards received in the year 2012

Sl. No.	Recipient	Award	Awarding Society	Topic
1.	Ms. Aditi Kotdwala	Dr. Poornima Nadakarni award for second best oral paper	Indian Society of Assisted Reproduction (ISAR), Raipur, Chhattisgarh 1 <sup>st</sup> to 4 <sup>th</sup> March (2012)	Effect of Zinc supplementation to human ejaculate prior to cryopreservation on sperm function competence
2.	Ms. Shruthi R Gowda	Dr. Poornima Nadakarni award for best poster presentation	Indian Society of Assisted Reproduction (ISAR), Raipur, Chhattisgarh 1 <sup>st</sup> to 4 <sup>th</sup> March (2012)	Effect of biotin and pentoxifylline on preimplantation embryonic development
3.	Mr. Vikram Jeet Singh	Dr. Asha Rao award for second best poster presentation	Indian Society of Assisted Reproduction (ISAR), Raipur, Chhattisgarh 1 <sup>st</sup> to 4 <sup>th</sup> March (2012)	Effect of metacid-50 on ovarian physiology, structure and function of oocytes



4.	Ms. Freya Mathias	Dr. Asha Rao award for best oral paper	Indian Society of Assisted Reproduction (ISAR), Raipur, Chhattisgarh 1 <sup>st</sup> to 4 <sup>th</sup> March (2012)	Comparison of ovarian tissue slow freezing and vitrification on oocyte structural and DNA integrity
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**PG (MSc Clinical Embryology)**

**Academic awards received in the year 2013**

Sl. No.	Recipient	Award	Awarding Society	Topic
1.	Mr. Sam Sudhakaran	Dr. Asha Rao award	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa February 16-18, 2013	Oral paper - Effect of different ovarian tissue cryopreservation methods on oocyte methylation status".
2.	Mr. Sandesh Patel	Dr. Poornima Nadakarni award	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa February 16-18, 2013	Paper presentation: "Biotin enhances sperm motility in asthenozoospermic subjects and developmental potential of embryos".
3.	Mr. Sonu T Lukose	Dr. Asha Rao award	Indian society of Assisted Reproduction (ISAR) at Rourkela, Orissa	Second best poster presentation: "Liposomes of soya lecithin and

			February 16-18, 2013	cholesterol as extenders in cryopreservation of testicular sperm”.
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### Journal Publications – 2012

#### International Indexed:

1. Shivananda N Kalludi, Guruprasad Kalthur, Susan Benjamin, Pratap Kumar, Satish Kumar Adiga. Controlled cooling versus rapid freezing of teratozoospermic semen samples: Impact on sperm chromatin integrity. *Journal of Human Reproductive Sciences*. Vol.4. No.3:121-124: January 2012
2. Jayaraman V, Upadhya D, Narayan PK, Adiga SK. Sperm processing by swim-up and density gradient is effective in elimination of sperm with DNA damage. *J Assist Reprod Genet*. 2012; 29(6): 557-563.
3. Kalthur G, Salian SR, Keyvanifard F, Sreedharan S, Thomas JS, Kumar P, Adiga SK. Supplementation of biotin to sperm preparation medium increases the motility and longevity in cryopreserved human spermatozoa. *J Assist Reprod Genet*. 2012; 29(7); 631-5.
4. Salian SR, Kalthur G, Uppangala S, Kumar P, Adiga SK. Frozen-thawed spermatozoa from oligozoospermic ejaculates are susceptible to *in situ* DNA fragmentation in polyvinylpyrrolidone-based sperm-immobilization medium. *Fertil Steril*. 2012; 98(2); 321-5.
5. Aik Kia Khaw, Jacklyn Wei Yan Yong, Guruprasad Kalthur and M. Prakash Hande. Genistein Induces Growth Arrest and Suppresses Telomerase Activity in Brain Tumor Cells. *Genes Chromosomes Cancer*. 2012; 51(10); 961-74.
6. Aditi P. Kotdawala, Sangeetha Kumar, Sujith R. Salian, Prashanth Thankachan, Kaushik Govindraj, Pratap Kumar, Guruprasad Kalthur, Satish K. Adiga. Addition of zinc to human ejaculate prior to cryopreservation prevents freeze-thaw-induced DNA damage and preserves sperm. *J Assist Reprod Genet*. 2012; 29(12): 1447-53.
7. Rohini Bose, Satish K. Adiga, Fiona D’Souza, Sujith R. Salian, Shubhashree Uppangala, Guruprasad Kalthur, Navya Jain, Raghu A. Radhakrishnan, Nalini Bhat, Hanumantappa Krishnamurthy, Pratap Kumar. Germ cell abnormalities in streptozotocin induced diabetic mice do not correlate with blood glucose level. *J Assist Reprod Genet*. 2012; 29(12): 1405-13.

8. Varshini J, Srinag BS, Kalthur G, Krishnamurthy H, Kumar P, Rao SB, Adiga SK. Poor sperm quality and advancing age are associated with increased sperm DNA damage in infertile men. *Andrologia*. 2012;44: 642-9

### Journal Publications – 2013

#### International Indexed:

1. Dayanidhi Kumar, Sujith Raj Salian, Guruprasad Kalthur, Shubhashree Uppangala, Sandhya Kumari, Srinivas Challapalli, Srinidhi Gururajarao Chandraguthi Hanumanthappa Krishnamurthy, Navya Jain, Pratap Kumar, Satish Kumar Adiga. Semen abnormalities, sperm DNA damage and global hypermethylation in healthworkers occupationally exposed to ionizing radiation. *PLOS one*. July 2013; Vol.8(7):1-8.
2. Aik Kia Khaw, M. Pradeepa Hande, Guruprasad Kalthur, M. Prakash Hande. Curcumin inhibits telomerase and induces telomere shortening and apoptosis in brain tumour cells. *Journal of Cellular Biochemistry*. Vol.114 (6):1257-1270;2013.
3. Dayanidhi Kumar, Dinesh Upadhya, Shubhashree Uppangala, Sujit Raj Salian, Guruprasad Kalthur & Satish Kumar Adiga. Nuclear DNA fragmentation negatively affects zona binding competence of Y bearing mouse spermatozoa. *J Assist Reprod Genet*. 2013;30(12) :1611-1615.
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5. Dayanidhi Kumar, Dinesh Upadhya, Sujit Raj Salian, Satish B S Rao, Guruprasad Kalthur, Pratap Kumar, Satish K Adiga. The extent of paternal sperm DNA damage influences early post-natal survival of first generation mouse offspring. *European Journal of Obstetrics & Gynaecology and Reproductive Biology*. 166 (2013) 164-167.

**Journal Publications - 2014****International Indexed:**

1. Y Ashokan, S D Honguntikar, S Uppangala, S R Salian, D Kumar, G. Kalthur & S. K. Adiga. In situ viability detection assays induce heat-shock protein 70 expression in spermatozoa without affecting the chromatin integrity. *First International Journal of Andrology*. 2014 October;1-8.
2. Nair R, Singh VJ, Salian SR, Kalthur SG, D'Souza AS, Shetty PK, Mutalik S, Kalthur G, Adiga SK. Methyl parathion inhibits the nuclear maturation, decreases the cytoplasmic quality in oocytes and alters the developmental potential of embryos of Swiss albino mice. *Toxicol Appl Pharmacol*. 2014 Jul 16;279(3):338-350
3. Prakash Anil Castelino, Prashantha Naik, Jagadeesh Prasad Dasappa, R S Sujayraj,  
K Sharath Chandra, Kumara Chaluvaiiah, Ramya Nair, M V Sandhya Kumari, Guruprasad Kalthur, Satish Kumar Adiga. Synthesis of novel thiadiazolotriazin-4-ones and study of their mosquito-larvicidal and antibacterial properties. *European Journal of Medicinal Chemistry*. 2014 Jul; 84:194-199.
4. Sam Sudhakaran, Shubhashree Uppangala, Sujith Raj Salian, Sachin D Honguntikar, Ramya Nair, Guruprasad Kalthur, and Satish Kumar Adiga. Oocyte recovered after ovarian tissue slow freezing have impaired H2AX phosphorylation and functional competence.
5. Shivanand M Pudakalakatti, Abinay Dubey, Garima Jaipuria, U Shubhashree, Satish Kumar Adiga, Detlef Moskau, Hanudatta S. Atreya. A fast NMR method for resonance assignments: application to metabolomics. *Journal of Biomol NMR*. (doi:10.1007/s 10858-014-9814-6)
6. Srinivas Mutalik, Sujith Raj Salian, Kiran Avadhani, Jyothsna Menon, Haritima Joshi, Aswathi Raju Hegde, Pratap Kumar, Guruprasad Kalthur, Satish Kumar Adiga. Liposome encapsulated soy lecithin and cholesterol can efficiently replace chicken egg yolk in human semen cryopreservation medium. *Journal of Systems Biology in Reproductive Medicine*. DOI: 10.3109/19396368.2014.902521 (March 2014) – Indexed International
7. Dayanidhi Kumar, Sujith Raj Salian, Guruprasad Kalthur, Shubhashree Uppangala,  
Sandhya Kumari, Srinivas Challapalli, Shrinidhi Gururajaro Chandraguthi, Navya Jain, Hanumanthappa Krishnamurthy, Pratap Kumar N, Satish Kumar Adiga. Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation. *Journal of Environmental Research*. Vol 132;297-304:2014.

8. Freya Jothsna Mathias, Fiona D'souza, Shubhashree Uppangala, Sujith Raj Salian, Guruprasad Kalthur and Satish Kumar Adiga. Ovarian tissue vitrification is more efficient than slow freezing in protecting oocyte and granulose cell DNA integrity. *Systems Biology in Reproductive Medicine*. 1-6:June 2014.

### Journal Publications - 2014

#### National Indexed:

1. Deepika Pratap, Pratap Kumar, Satish Kumar Adiga. Advancing or postponing the day of human chorionic gonadotropin does not matter for the outcome in assisted reproductive technology. *Journal of Human Reproductive Sciences*. Vol 7(2); 107-110: April-June 2014.
2. Veena Bhaskar S Gowda, Sharmila Upadhya, Pratap Kumar N, Satish Kumar Adiga, Bhaskar Hebbani Nagaiah, Sudhir Kumar Ambati. Evaluation of oxidative stress and antioxidants in serum and follicular fluid of women undergoing invitro fertilization. Vol 2(2);1-10:April 2014 (ISSN [Online]:2320-513X). (International Indexed).
3. Amar Ramachandran, Kshitij Jamdade, Pratap Kumar, Satish Kumar Adiga, Rajeshwari G Bhat, Sinatra R Ferrao. Is there a need for luteinizing hormone (LH) estimation in patients undergoing ovarian stimulation with gonadotropin-releasing hormone antagonists and recombinant follicle-stimulating hormone? *Journal of Clinical and Diagnostic Research*. Vol 8(1);90-92:Jan 2014.

**Book Edited:** Nil

**Chapter in the Book:** Nil

### CONFERENCES

#### International (Poster/Paper/Guest lecture/key notes) : 2012

Sl.no	Title of presentation	Faculty	Detail of the conference
1	Non-invasive embryo selection: recent advancements, pre-congress course on Embryo transfer	Dr Satish Kumar Adiga	1st Indonesian Association of <i>In Vitro</i> Fertilization (IAIVF) Congress - Jakarta, Indonesia, 13 - 15 February 2012
2	Clinical Utility of Sperm DNA integrity testing	Dr Satish Kumar Adiga	1st Indonesian Association of <i>In Vitro</i> Fertilization (IAIVF) Congress - Jakarta, Indonesia, 13 - 15 February 2012

3	Paper : Cellular changes in somatic cells and oocytes of Swiss albino mice subjected to repeated superovulation	Dr Guruprasad Kalthur	ASPIRE, Osaka, Japan 1 <sup>st</sup> September 2012
4	Paper : Evaluation of sperm chromatin modification, sperm methylation errors and reproductive toxicity in radiation health workers	Mr Dayanidhi Kumar	ASPIRE, Osaka, Japan 1 <sup>st</sup> September 2012

## CONFERENCES

### National (Poster/Paper/Guest lecture/key notes) : 2012

Sl.no	Title of presentation	Faculty	Detail of the conference
1	Effect of controlled ovarian stimulation on oocyte and embryo quality	Dr Satish Kumar Adiga	KISAR congress, Bangalore, 4-5 February 2012.
2	Paper : Influence of antioxidant concentration and reactive oxygen species on post-thaw survival and DNA integrity of spermatozoa in split ejaculate	Mr Dayanidhi Kumar	Indian society of Assisted Reproduction (ISAR) Raipur, Chhattisgarh 1 <sup>st</sup> to 4 <sup>th</sup> March 2012
3	Invited talk on “Assisted Reproductive Technology: Embryological aspects	Dr Satish Kumar Adiga	Workshop organized by the Department of Anatomy, KMC Manipal. 28 <sup>th</sup> July 2012
4	Techniques of sperm DNA damage detection & practical demonstration	Dr Guruprasad Kalthur	2 <sup>nd</sup> Annual workshop on Micromanipulation techniques at Manipal July 23 to August 4, 2012
5	Practical demonstration	Mr Dayanidhi Kumar	2 <sup>nd</sup> Annual workshop on Micromanipulation techniques at Manipal July 23 to August 4, 2012
6	Practical demonstration	Ms Shubhashree Uppangala	2 <sup>nd</sup> Annual workshop on Micromanipulation techniques at Manipal July 23 to August 4, 2012

7	Invited talk on “Use of Lasers in Assisted Reproductive Technology	Dr Satish Kumar Adiga	National Workshop on Photonics in biomedicine, Manipal. 21 <sup>st</sup> August 2012
8	Lecture on “Value of sperm quality on ART outcome”.	Dr Satish Kumar Adiga	KSOGA conference, Belgaum 19-21 October 2012
9	Embryologist’s perspective on sperm DNA fragmentation	Dr Satish Kumar Adiga	National Symposium & Workshop on Best practices in Clinical Embryology held on Manipal, Karnataka December 1 & 2 2012
10	Techniques of sperm DNA damage detection	Dr Guruprasad Kalthur	National Symposium & Workshop on Best practices in Clinical Embryology held on Manipal, Karnataka December 1 & 2 2012
11	Poster: Effect of occupational radiation exposure on semen characteristics and DNA integrity in radiation health workers	Mr Dayanidhi Kumar	National Symposium & Workshop on Best practices in Clinical Embryology held on Manipal, Karnataka December 1 & 2 2012
12	A new NMR based biomarker for assessment of embryo implantation potential in ART	Ms Shubhashree Uppangala	National Symposium & Workshop on Best practices in Clinical Embryology held on Manipal, Karnataka December 1 & 2 2012
13	Changes in pyruvate uptake by the laser hatched human embryos	Ms Shubhashree Uppangala	National Symposium & Workshop on Best practices in Clinical Embryology held on Manipal, Karnataka December 1 & 2 2012
14		Ms Sandhya Kumari M V	National Symposium & Workshop on Best practices in Clinical Embryology held on Manipal, Karnataka December 1 & 2 2012



## CONFERENCES

### International (Poster/Paper/Guest lecture/key notes): 2013

Sl.No.	Title of presentation	Faculty	Detail of the conference
1	Effect of therapeutic viability assays on Heat shock Protein Expression (Hsp) and DNA integrity of fresh and frozen thawed spermatozoa	Dr Satish Kumar Adiga	3 <sup>rd</sup> International Congress on Controversies in Cryopreservation of Stem Cells, Reproductive cells, Tissue and Organs (CRYO) at Berlin, Germany. March 21-23, 2013
2	Cryopreservation of oocytes & outcomes: Do we damage the DNA?	Dr Satish Kumar Adiga	3 <sup>rd</sup> Malaysian Reproductive Medicine Congress at Kuala Lumpur, Malaysia April 17-19, 2013
3	Sperm selection for ICSI – Have the newer techniques made a difference	Dr Satish Kumar Adiga	Inaugural conference of South Asian Society for Sexual Medicine (SASSM) at Bangalore March 29 – 31, 2013.
4	Addition of Zinc to Human ejaculate prior to cryopreservation prevents the loss of sperm function & DNA integrity	Dr Guruprasad Kalthur	3 <sup>rd</sup> International Congress on Controversies in cryopreservation of Stem Cells, Reproductive cells, Tissue and Organs (CRYO) at Berlin, Germany March 21-23, 2013

5	Functional and developmental competence of oocytes from Swiss albino mice subjected to repeated superovulation	Dr Guruprasad Kalthur	International conference on REPRODICS-OMICS in Reproduction at Trivandrum February 7-10, 2013
6	Effect of occupational radiation exposure on semen characteristics and DNA integrity in radiation health workers	Mr Dayanidhi Kumar	3 <sup>rd</sup> Malaysian Reproductive Medicine Congress - Kuala Lumpur, Malaysia - April 17-19, 2013
7	PVP based sperm immobilization medium induces in situ DNA fragmentation	Ms Shubhashree Uppangala	3 <sup>rd</sup> International Congress on Controversies in Cryopreservation of Stem Cells, Reproductive cells, Tissue and Organs (CRYO) at Berlin, Germany March 21-23, 2013
8	A new NMR based biomarker for assessment of embryo implantation potential in ART	Ms Shubhashree Uppangala	International conference on REPRODICS-OMICS in Reproduction at Trivandrum February 7-10, 2013
9	Guest lecture on “Embryo culture system”	Dr Satish Kumar Adiga	2 <sup>nd</sup> International Conference of Academy of Clinical Embryologists 2013 at Bangalore August 9 -11, 2013
10	Guest lecture on “Biotin as sperm function enhancer – a safe alternate to pentoxifylline ?”	Dr Guruprasad Kalthur	2 <sup>nd</sup> International Conference of Academy of

			Clinical Embryologists 2013 at Bangalore August 9 -11, 2013
11	Guest lecture on “Use of NMR technology in analyzing embryo metabolism	Ms Shubhashree Uppangala	2 <sup>nd</sup> International Conference of Academy of Clinical Embryologists 2013 at Bangalore August 9 -11, 2013
12	Poster presented on “Metacid – 50 induced toxicity on female reproductive system	Dr Guruprasad Kalthur	27 <sup>th</sup> Scientific Meeting of Malaysian Society of Pharmacology and Physiology (MSPP) 2013 September 6 <sup>th</sup> to 8 <sup>th</sup> 2013 in Kuantan, Pahang, Malaysia
13	Invited faculty for Post-graduate course – “Late effects of childhood cancer treatments: Sub- and infertility”  Guest lecture on “Influence of testicular irradiation on embryonic response and trans-generational effects”.	Dr Satish Kumar Adiga	Karolinska Institute and University Hospital, Sweden 14 <sup>th</sup> to 15 <sup>th</sup> October 2013.
14	Guest Lecture: Female reproductive toxicity assessment, Our experimental approach.	Dr Guruprasad Kalthur	University of Naples, Italy, 10-12-2013
15	Poster: Paternal DNA damage Influences pyruvate uptake in humanpreimplantation embryos	Ms Shubhashree Uppngala	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013

16	Poster: Effect of occupational radiation exposure on semen characteristics and DNA integrity in radiation health workers	Mr Dayanidhi Kumar	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013
17	Effect of propolis on Mitomycin-C induced DNA damage in somatic cells of adult female mice	Ms Sandhya Kumari M V	International Humboldt Kolleg on “Bench to Bedside Translational Research – potential benefits of interdisciplinary collaboration” at Manipal November 15-17, 2013

**National/ Regional (Poster/Paper/Guest lecture/key notes) : 2013**

Sl.no.	Title of presentation	Faculty	Detail of the conference
1	Effect of occupational radiation exposure on semen characteristics and DNA integrity in radiation health workers	Mr Dayanidhi Kumar	Mini Symposium on “Testicular Research: From Laboratory to Clinic” at Manipal April 13, 2013
2	NMR based profiling of spent embryo culture media: a non-invasive tool to study the embryo metabolism	Ms Shubhashree Uppangala	Mini Symposium on “Testicular Research: From Laboratory to Clinic” at Manipal April 13, 2013
3	Poster : “Leaf extract of Moringa oleifera enhances the human sperm function in vitro and prolongs the survival”	Ms Sandhya Kumari M V	Mini Symposium on “Testicular Research: From Laboratory to

			Clinic” at Manipal April 13, 2013
4	Ethics in Assisted Reproductive Technology	Dr Satish Kumar Adiga	Organized by the Department of Hospital Administration & Centre for Personal Development, Manipal University, Manipal, May 27, 2013
5	Assisted Reproductive Technology	Dr Satish Kumar Adiga	Organized by Directorate of Research, Manipal University June 3 – July 2 – 2013
6	- Guest lecture: on "Research avenues in clinical embryology" in “Experience the Advances in Teaching and Research in Embryology	Dr Guruprasad Kalthur	CME held in KMC Mangalore on 5th October 2013.
7	Guest Lecture: Embryo Biopsy and preimplantation genetic diagnosis. NUS-VIT symposium on Genes, Environment and disease	Dr Guruprasad Kalthur	Vellore Institute of Technology (VIT), Vellore, 19-12- 2013.
8	Paper : “Leaf extract of Moringa oleifera enhances the human sperm function in vitro and prolongs the survival”	Ms Sandhya Kumari M V	18 th national Congress on Assisted Reproductive Technology & advances in Infertility Management , 2013, Rourkela

## CONFERENCES

### International (Poster/Paper/Guest lecture/key notes) : 2014

Sl.no	Title of presentation	Faculty	Detail of the conference
1.	Paper presented on “Laser assisted hatching of cleavage stage mouse embryos impairs development potential and increases genetic instability in blastocysts	Dr Satish Kumar Adiga	30 <sup>th</sup> Annual Meeting of European Society for Human Reproduction” in Munich, Germany from 29 <sup>th</sup> June to 2 <sup>nd</sup> July 2014.
2	Guest lecture on “Best ways to deal with high sperm DNA fragmentation in ART”,	Dr Satish Kumar Adiga	3 <sup>rd</sup> International Conference of Academy of Clinical Embryologists (ACE-2014) in Indore (MP) from August 8 <sup>th</sup> to 10 <sup>th</sup> 2014
3	Paper presented on “Influence of sperm DNA fragmentation on human preimplantation embryo metabolism	Ms Shubhashree Uppangala	3 <sup>rd</sup> International Conference of Academy of Clinical Embryologists (ACE-2014) in Indore (MP) from August 8 <sup>th</sup> to 10 <sup>th</sup> 2014
4	Paper presented on “Ovarian tissue vitrification is more efficient than slow freezing in protecting oocyte and granulosa cell DNA integrity”.	Dr Satish Kumar Adiga	Oncofertility conference held in Chicago, USA on September 22-23,2014
5	Poster presented on “Effect of two different ovarian tissue cryopreservation methods on the functional competence and genetic integrity of oocytes”	Ms Shubhashree Uppangala	“Bench to Bedside: Oncofertility Advances in Males and Females” held at Chicago, USA on September 22-23, 2014

6	Paper presented on “Effect of repeated superovulation on female gamete function” for presentation”	Dr Guruprasad Kalthur	International symposium on Genetic Analysis: Translational and Developmental (NSGTD) held at University of Burdwan, West Bengal on 21-23 November 2014.
7	Oral presentation on “ <i>Moringaoleifera</i> leaf extract protects the male germ cells from cyclophosphamide-induced damage”	Dr Guruprasad Kalthur	1st International conference on Pharmaceutics and pharmaceutical Sciences, 14-15 November 2014, Surabaya, Indonesia.
8	Poster presentation on “Protective Effect of Indian Propolis Against Mitomycin C Induced Gonadotoxicity”.	Mrs Sandhya Kumari M V	International symposium on Genetic Analysis: Translational and Developmental (NSGTD) held at University of Burdwan, West Bengal on 21-23 November 2014.

**NATIONAL/ REGIONAL (Poster/Paper/Guest lecture/key notes) : 2014**

S.No	Title of presentation	Faculty	Detail of the conference
1	Guest lecture on “Liposome based cryopreservation medium for human spermatozoa” in Nanomedicines: Risk and Benefit ratio	Dr Guruprasad Kalthur	AICTE sponsored National Seminar, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal, between 24 <sup>th</sup> and 25 <sup>th</sup> Jan 2014



2	Guest lecture on “Clinical relevance and diagnosis of abnormal sperm parameters”	Dr Satish Kumar Adiga	Miracles Endo-Fertility Conference at Gurgaon on 9 <sup>th</sup> February 2014
3	Plenary lecture on “ Effect of sperm DNA damage on the reproductive outcome	Dr Satish Kumar Adiga	Manipal Research Colloquium 2014 at Manipal University on April 11 <sup>th</sup> & 12 <sup>th</sup> 2014
4	Guest lecture on “Comet Assay for Genotoxicity and Carcinogenicity”	Dr Guruprasad Kalthur	Organized by the Department of Biosciences, Mangalore University, Mangalagangothri on 27 <sup>th</sup> March 2014.
5	Oral presentation on “Use of NMR technology in analyzing embryo metabolism”	Ms Shubhashree Uppangala	Manipal Research Colloquium- 2014 at Manipal University on April 11 <sup>th</sup> & 12 <sup>th</sup> 2014.
6	Poster presentation on “Zinc nanoparticles impairs the motility but stabilizes the DNA of human spermatozoa”	Dr Guruprasad Kalthur	National conference: “Present scenario of chemical sciences and its technological perspectives- 2014”- Karnataka Science College, Dharwad University, Dharwad- October 10, 11
7	<u>Guest lectures on:</u> a. LAH – current modifications b. Preventing infections in the lab – A comprehensive approach c. Changing criteria for embryo selection - Identifying those that will implant	Dr Satish Kumar Adiga	LIFE conference 2014 at Bangalore October 31 & November 1, 2014

8	Guest lectures on: a. Tricks of the trade – Techniques to improve embryo quality b. Best practices to prevent lab errors	Dr Guruprasad Kalthur	LIFE conference 2014 at Bangalore October 31 & November 1, 2014
9	Presented a paper on "Developing potential biomarkers for the selection of in vitro derived human preimplantation embryos: NMR based approach	Ms Shubhashree Uppangala	Ranbaxy Science Foundation Science scholar award meeting at Delhi, November 2014
10	Presented a paper on "Effect of repeated superovulation on the developmental potential of mouse embryos in vitro"	Dr Guruprasad Kalthur	10 <sup>th</sup> Annual National Conference of Indian Fertility Society at Pune December 19 – 21, 2014
11	Presented a paper on "Hydroalcoholic extract of Indian propolis mitigates the mitomycin C induced testicular dysfunction	Mrs Sandhya Kumari M V	10 <sup>th</sup> Annual National Conference of Indian Fertility Society at Pune December 19 – 21, 2014

## 12. Placement record of the past students and the contribution of the department to aid student placements

Department has 100% placements till date with students absorbed in IVF centers as Clinical embryologists. Two students are pursuing their higher studies to do PhD in Canada and Italy. Department helps in finding suitable job or research positions by arranging campus recruitment with reputed IVF companies and also encouraging the students to write competitive examinations such as CSIR-NET, ICMR JRF examinations etc.

## 13. Plan of action of the department for the next five years: In next five years the aim of our department is to excel in all the three basic themes

**A. Teaching:** We intend to improve our undergraduate as well as postgraduate teaching with incorporation of latest technologies. More emphases will be given to integrated teaching programs with the aid of audiovisuals and models. To provide wide exposure to the students, exchange visits with reputed institution and IVF centers are being planned.

**B. Research:** As the global demand is increasing we are planning to put more thoughts and efforts in research in times to come. We are planning to extend our collaboration with national and international agencies for research, wherein we would like to involve our students too. We are also exploring new avenues of training and fellowships in clinical and basic research for students. Establishing Centre of excellence in different areas of embryology will be the future plan.

**1. Name of the Department: CARDIOVASCULAR & THORACIC SURGERY- KMC Manipal.**

**2. Faculty profile - adequacy and competency of faculty**

There are four teaching faculty who are competent and have the required qualification according to regulatory bodies. All have completed their MCh degrees and are registered with the Karnataka Medical Council. There are two MCh registrars and the senior faculty is qualified for post graduate MCh teaching.

**Faculty list**

Sl. No.	Name	Qualification	Designation	Teaching experience in years
1	Dr. S Ganesh Kamath	MBBS, MS, MCh	Professor & Head	22
2	Dr. Vasudev B Pai	MBBS, MS, MCh, DNB	Assoc. Prof.	3
3	Dr. Sunitha Dinkar	MBBS, MS, MCh	Asst. Prof.	2
4	Dr. Kapil Minocha	MBBS, MS, MCh	Asst. Prof.	<01
5	Dr. Sambhram Shetty	MBBS, MS	Senior Registrar	<01
6	Dr. Guruprasad Rai	MBBS, MS	Senior Registrar	<01

Category	Sanctioned	Filled
Teaching staff	03	04
MCh candidate		

**3. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,**

Please refer Annexure No. HS 1 for details

**4. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.**

The Cardiovascular-Thoracic Surgery course is recognized by the MCI. The Manipal University had changed the Theory exam pattern for the Cardiovascular-Thoracic Surgery University examination through the Board of Studies recommending four theory papers instead of three and ten questions of equal marks instead of the older pattern.

### 5. Trends in the success and dropout rates of students during the past two years.

Course	Year	Pass percentage	Drop out rates
MCH	2013	-	-
	2014	100%	NIL

### 6. Learning resources of the departments - library, computers, laboratories and other resources.

#### Department Library

Has a total of 100 Standard books of Cardiac , Thoracic & Vascular Surgery. Manipal University building has an fully air conditioned KMC Health Science Library, which has another 100 books of our section with three journals. 6 more journals related to our branch are available free and can be assessed on the Intranet.

#### Internet facilities for staff & students

All Faculty and students provide with Free laptops

Wi-fi connection available in the OPD, OT, ICU& classroom

Desktop Computers available in the OPD, ICU and wards.

Lab and procedure room: Air conditioned procedure room in the opd for minor procedures

Cardiac rehabilitation center in the OPD for post operativeCardiac Surgery cases.

### 7. Modern teaching methods practiced and use of ICT in teaching – learning.

#### Courses trained under the department:

- Postgraduate- MCh in Cardiovascular-Thoracic Surgery.

Teaching Methods Adopted

#### Postgraduates- MCh

All learning process done through modern teaching learning equipment's

- Interactive Lectures
- PG seminars and Journal reviews
- Case presentations and discussions
- Practical Teaching in OT
- Graded and gradual progression of the student to higher responsibility and independent surgeries.
- Regular appraisal of the MCh students

### 8. Participation of teachers in academic and personal counseling of students.

All postgraduates work under the supervision of the staff and gradual independence and higher responsibility is given, depending on the competence. They are trained to attend chest trauma, vascular, thoracic and cardiac emergencies, evaluate patient in the

opd and post op intensive care monitoring. Operative training depends on the ability of the candidate handle tissues with care, proper technique of knotting and full knowledge of the operative steps.

#### 9. Details of faculty development programmes and teachers who have been benefited during the past two years.

It is mandatory for every faculty to participate in the faculty development programme pertaining to teaching and learning, research methodology and usage of computer software in statistics.

#### 10. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

All faculty are involved in teaching and imparting the skills necessary for the student to become a successful surgeon. The training is day to day basis and starts from the out patient department to admission and then surgery, postop care and discharge.

#### 11. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.

Faculty have published scientific articles in collaboration with Dept of Cardiology and Dept of Tuberculosis & Respiratory diseases. Interdepartmental collaboration with Dept of Gen Surgery, for PG thesis and Dept of Biomedical Engineering.

#### 12. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past three years.

##### Ongoing

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	0
PG research projects	0
UG research projects	0

##### Last 2 years (2013-2014)

	2013	2014
Completed funded research projects	0	0
Completed non-funded research projects	0	0
Completed PhD research projects	0	0
Completed PG research projects	0	0
Completed UG research projects	0	0

Publications	International	3	6
	National	0	0
Books		0	0
Chapters in books		0	0
Conference presentations	International	0	0
	National	1	4

### **Publications:**

#### **International:**

1. Myocarditis after thymoma resection, with left ventricular hypokinesia mimicking acute coronary syndrome., Letter to the Editor. John George Karippacheril, Ranjan Shetty, Sunil C. V. Sagar, S. Ganesh Kamath., J Anesth., DOI 10.1007/s00540-013-1590-z, Feb 2013.
2. S.M. Abdul Khader, Raghuvir Pai B, Anurag Ayachit, K.A. Ahmed, V.R.K Rao, S. Ganesh Kamath, (2013), Patient specific Fluid-Structure Interaction study of cerebral aneurysm, International Journal of Earth Sciences and Engineering, Vol.6, No.4(01), pp:826-831.
3. S.M. Abdul Khader, Raghuvir Pai B, Anurag Ayachit, K.A. Ahmed, V.R.K Rao, S. Ganesh Kamath, (2013), Comparative study of blood flow through normal and stenosed common carotid artery using Fluid-Structure Interaction, International Journal of Earth Sciences and Engineering, Vol.6, No.4(01), pp:866-871.
4. Ganesh Kamath, Ravikiran Naalla, Vasudev Baburaya Pai, Ramakrishna Narayanan., Left maxillary artery pseudoaneurysm: a rare and late postoperative complication after head and neck cancer treatment. BMJ Case Reports 2014; doi:10.1136/bcr-2013-203078.
5. Nikhil Gulavani, Gabriel Rodrigues, Raghunath Prabhu, Ganesh Kamath, Lavanya Rai, Laxmi Rao., Case report: Non Functioning Aortocaval Paraganglioma Masquerading as Celiac Lymphnodal Metastasis. The Eurasian Journal of Medicine, 2014: 46: 53-6.
6. Effect of postural changes on normal and stenosed common carotid artery using FSI., B. Raghuvir Pai, Anurag Ayachit, S. M. Abdul Khader, K. A. Ahmed, V. R.K. Rao, S. Ganesh Kamath, P. D. Gupta. Australas Phys Eng Sci Med (2014) 37:139–152. DOI 10.1007/s13246-014-0246-0.
7. A giant ‘sausage’ thrombus in the left ventricle in a patient with preserved ventricular function Hashir Kareem, Tom Devasia, Vasudev Baburaya Pai, Kapil Minocha, BMJ Case Reports 2014:published online 8 May 2014, doi:10.1136/bcr-2014-204362.
8. Nayak, Dipak Ranjan and Bhandarkar, Ajay M and Kamath, Ganesh S and Nayak, Ramya and Gudiseva, Amrutha and Thomas, Susan A, May (2014) Tracheo-Innominate artery fistula – A surgical and hemodynamic emergency. International Journal of Scientific Research, 3 (5). pp. 493-494. ISSN 2277 – 8179.



9. Acute kidney injury in post cardiac surgery - An evaluation with eGFR (Estimated glomerular filtration rate) and akin Criteria. John Mathew R, Raj N, Raghavan V, Kamath G, Kamath A, Velladath SU, 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):WMC004745

#### **Conference Presentations:**

1. The 59th Annual Conference of Indian Association Of Cardiovascular Thoracic Surgeons will be held on Feb 14-17th 2013 at Mumbai , Renaissance Mumbai Convention Centre Hotel. Standard Transperitoneal Approach for Juxta Renal complete occlusion of Infra renal Aorta. SG Kamath, Kapil M, Sambhram Shetty
2. 32 nd Annual Conference of Associations of Surgeons of India, Karnataka State chapter Manipal- 14-16th Feb 2014 Chairperson for free paper session Dr. S. Ganesh Kamath: 15/02/14
3. 60th Annual Conference of Indian Association of Cardiovascular-Thoracic Surgeons. Kovalum, Tiruvanthapuram, Kerala 20-23 Feb.2014. Papers 1) Use of Mediastinoscopy in the Era of latest imaging modalities, 2) Rare case of Askins tumor of the 6th rib.& 3) Mammary Spur.

#### **13. Placement record of the past students and the contribution of the department to aid student Placements.**

Nil

#### **14. Plan of action of the department for the next five years.**

1. Promote the Dept as an excellent tertiary referral center for Cardiac and Thoracic Surgeries.
2. To motivate the faculty to present more papers in national and international conference and conduct research.
3. To enhance knowledge of recent advances in surgical techniques by attending workshops, national and international.
4. Fine tune the training programme to produce a specialist who is empathetic and provides a rational approach towards patient care and has good surgical skills for treating Cardiac Thoracic and vascular Surgeries.
5. Systemic and regular assessment and appraisal of the students and frequent evaluation exams.
6. Faculty encouraged to publish more papers with emphasis on original work and research.

1. **Name of the Department:** AYURVEDA, KMC – Manipal.

2. **Faculty profile - adequacy and competency of faculty**

There are 5 teaching faculty in the dept. which is adequate for the regular activities of the dept. All the faculty members are Post graduate qualification holders and fully competent in teaching and clinical work. Some faculty members are regularly engaged in research activities also.

**Faculty list**

SI #	Name	Qualification	Designation	Teaching Experience in years
1	Dr. Krishna J. Malagi	BSAM,MD	Prof & Head	14
2	Dr. BasavarajHadapad	BAMS,MD,MBA-HCS	Assoc. Prof.	14
3	Dr. Kamath Madhusudhana	BAMS,MD,Pharm , MBA, PGDTQM,FAGE	Assoc. Prof.	7
4	Dr. H. ShripathiAdiga	BAMS,MD	Assoc. Prof.	6
5	Dr. Anupama V Nayak	BAMS, PGDPK MSc (Yoga)	Lecturer	12

Category	Sanctioned	Filled
Teaching staff	06	05

3. **Student profile – entry level competencies, socioeconomic status, language proficiency etc.,**

Please refer Annexure No. HS 1 for details

3. **Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.**

No changes are made

Short term Ayurvedic course started for students of STUDY ABROAD PROGRAM of the University since 9 years. All the faculty members are contributing in it for theory and practical training.

### 5. Trends in the success and dropout rates of students during the past two years.

Course	Pass percentage				Dropout rates			
	2010-11	2011-12	2012-13	2013-14	2010-11	2011-12	2012-13	2013-14
PGCPK	100%	100%	100%	100%	0	1	0	0
PTMT	100%	100%	100%	100%	0	0	0	0
SAP	100%	100%	100%	100%	0	0	0	0

### 6. Learning resources of the departments - library, computers, laboratories and other resources.

The department has a library with about 72 reference books in the subject & allied specialty for the use of the faculty & students.

A full equipped Ayurveda therapy room is available for the training of the students.

Ksharasootra theatre is available for the training of treatment of Ano-rectal diseases.

Ayurvedic kitchen and diet and life style counseling room is available for the use of students for their practical training.

### 7. Modern teaching methods practiced and use of ICT in teaching – learning.

Teaching is usually a problem based and evidence based learning. ICT is also used regularly for the benefit of students at the bedside.

### 8. Participation of teachers in academic and personal counseling of students.

The faculty members participate in clinical research training / awareness programmes / Seminars organized by KMC/Manipal University and other Academic Institutions. The department encourages submitting project proposals and approaching funding NGOs/Government Organizations. The department gets fund for research in interdisciplinary and intra departmental research activities. The department makes use of existing infrastructure for research.

### 9. Details of faculty development programmes and teachers who have been benefited during the past two years.

All our faculties have attended faculty development programs pertaining to teaching – learning & evaluation. All faculty members regularly attend various scientific programs like Conference, Workshop & CMEs.

### 10. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

Teachers contribute towards theory and practical teaching regularly. Consultancy to other dept. on Ayurvedic areas of research done regularly. Faculty members always

participate in the research activities of the department, as well as with other departments.

**11. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.**

NIL

**12. 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: Obesity, Osteo-arthritis, Rheumatoid Arthritis.**

Category	Number
Funded research projects	0
Non-funded research projects	2
PHD research projects	0
PG research projects	0
UG research projects	0

		2012	2013	2014
Completed Funded research projects		0	0	0
Completed Non-funded research projects		0	0	1
Completed PHD research projects		0	0	0
Completed PG research projects		0	0	0
Completed UG research projects		0	0	0
Publication	International	0	2	4
	National	0	0	0
Books		0	0	0
Chapter in books		0	0	0
Conference Presentation	National	0	0	2
	International	0	0	0

Year	2012	2013	2014
Seminars/ workshops/symposia on curricular development, teaching- learning, assessment, etc.	2	4	1
National Conference	2	2	1
Research management	Nil	1	Nil
Invited/endowment lectures	1	0	0
Any other (specify)	Nil	Nil	Nil

**Journal publications:****International – Indexed:**

1. Shripathi Adiga H ,Ramya S Adiga“Concept and Canons of Fasting in Ayurveda”, “Journal of Fasting and Health”, 2013;1(1) 1-50
2. Malagi KJ, Adiga SH, Rao A, Shenoy R, Kamath M, Devi AS. A prospective single arm open clinical pilot trial to study the antioxidant property of Ayurvedic massage therapy in healthy individuals. Int J Pharmacol and Clin Sci 2013;2:121-5
3. Kamath Madhusudhana. Letter to the Editor. “Ageism in cancer care.” rapid responses published online to Editorial ‘Ageism in cancer care.’ BMJ 2014; 348:g1614
4. Malagi KJ, Kamath M ,Adiga SH. Herb-Drug Interaction in Diabetes: a Bane or a Boon J Diabetes Metab Disord Control 2014, 1(3): 13-8
5. Adiga SH, Kranthi, Kamath M. Anti-Bacterial Activity Of Jasminum grandiflorum Linn And Tectonia grandis using Coconut Oil As Media Of Extraction . Asia Pacific Journal of Research. 2014; 1(16) 96-9
6. Kamath Madhusudhana. Letter to the Editor. “What Atul Gawande teaches us about dying.” rapid responses published online to Editorial ‘Another way of thinking!’ BMJ 2014; 349:g7779

**A completed Non-funded research project is:**

Sl.No	Title	Principal Investigator	Funding Agency	Total amount received
1	“A prospective open clinical trial to study the antioxidant property of AyurvedicMassage therapy”	Dr. K.J.Malagi	Nil	Nil
2	“A prospective open clinical trial to study the antioxidant property of AyurvedicVirechana therapy”	Dr. ShripathiAdiga	Nil	Nil

**Our ongoing Non-funded research project is:**

Sl.No	Title	Principal Investigator	Funding Agency	Total amount received
1	“A prospective, open clinical trial to evaluate the efficacy of Yastimadhu sadhita ksheera basti in reducing signs and symptoms of osteoarthrosis of knee joint”	Dr. K.J.Malagi	Nil	Nil

**13. Placement record of the past students and the contribution of the department to aid student Placements.**

Nil

**14. Plan of action of the department for the next five years.**

- Research in Lifestyle disorders ,Degenerative disorders.
- Propagating the concept of“Prevention better than cure” .
- Anti-aging related research works.
- Collaboration with like-minded foreign universities for developing a Holistic Health Care Course.
- Explore the possibilities of starting Ayurvedic degree and post-graduate courses with the recognition of CCIM.

## YOGA

### 1. Faculty profile - adequacy and competency of faculty

There are 4 teaching faculty members who meet the requirements for M.Sc. Yoga Therapy as per the requirements of the regulatory bodies. The entire faculties are competent

#### Faculty list

Sl. No.	Name	Qualification	Designation	Teaching Experience in years
1	Dr.Ganapathi Joisa H	MSc, PG Diploma in Yoga Therapy, PhD	Selection Grade Lecturer &Incharge	30
2	Dr. GayathriNayak	MA, MSc, PhD	Selection Grade Lecturer	27
3	Dr. Annapoorna K.	BAMS, MSc	Selection Grade Lecturer	24
4	Mr. Govardhan Reddy	MA, MSc	Lecturer	4

Category	Sanctioned	Filled
Teaching staff	04	04

### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure No. HS 1 for details.

### 3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes

MSc in Yoga Therapy the course is regulated by Manipal University, Manipal and department strictly comply with the laid down requirement by the University. The Board of studies decided to incorporate m c q questions in Biochemistry. To comply with this the concerned faculties have made changes in the teaching pattern. The duration of M.Sc. is 2 years.



#### 4. Trends in the success and dropout rates of students during the past two years

##### MSc Yoga Therapy 2 years Post Graduation:

Course	Year	Success	Drop out
I Year MSc in Yoga Therapy	2012	100%	Nil
II Year MSc in Yoga Therapy	2012	100%	Nil
I Year MSc in Yoga Therapy	2013	100%	Nil
II Year MSc in Yoga Therapy	2013	100%	Nil

#### 5. Learning resources of the departments - library, computers, laboratories and other resources

There is a well-equipped a Departmental library of 120 books and 1 journal. Apart from this Central library of KMC, Manipal, Computer Centre with internet facilities available to the Post Graduate students in the workplace.

All the faculties have been provided laptop by the University. The campus is Wi-Fi enabled. In addition department also have one desktop computer with printer. The department of yoga has a lecturing hall with teaching aids.

#### 6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching process uses a mix various methodologies for ensuring the achievements of objectives in the knowledge, problem solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other facilities which are necessary for graduate function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalized world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case scenario discussions/ Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

#### **7. Participation of teachers in academic and personal counseling of students**

All teachers are engaged in actively teaching for postgraduates. Every attempt is made to make the topic lucid and interesting. Students are encouraged to clarify their doubts both during the lectures or later. Slow learners are given special attention to overcome their learning difficulties. Every effort is made to provide them with additional opportunities for improvement by way of template answers, personalized tests and relevant explanations.

All faculty of the department are teacher guardians, each taking care of the students. They are responsible both for academic and personal development of the students. The students are also free to approach any faculty with their difficulties.

Postgraduates are encouraged to present papers/ posters during national and international conferences. They are also guided by faculty to publish quality papers in national and international indexed journals.

#### **8. Details of faculty development programs and teachers who have been benefited during the past two years**

All faculties regularly attend various scientific programs like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended 31 such programs. Also organized two National conference in "2012 and 2013" titled "Life style modifications for wellness" at KMC Manipal.

#### **9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research**

All the faculties are actively involved in teaching, consultancy and research programmes. The Department assists the faculties and students of other departments and institutions to carry out research activities. The department is also exploring avenues for research collaborations with other constituent institutions of the university.

### 10. Collaboration with other departments/institutions, at the State, National and International levels and their outcome during the past two years

Research leading to Ph. D, collaborating with the dept. of Bio-chemistry, Psychiatry by the faculty member. Efficacy of yoga therapy in the treatment of psychosomatic diseases being studied with the collaboration of Medicine, Ortho, Pediatrics, Cardiology & Dermatology etc. Papers presented in various conferences.

### 11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Ongoing:

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	2
PG research projects	0
UG research projects	0

**Last 3 years (2010-2012):**

		2010	2011	2012
Completed funded research projects		0	0	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		0	0	0
Completed UG research projects		0	0	0
Publications	International	03	05	--
	National	--	--	01
Books		0	0	0
Chapters in books		0	0	0
Conference presentations	International	01	11	--
	National	--	--	01

The detailed outline of projects is given below:

**Our ongoing PhD research projects are:**

Sl.No	Title	Name of staff	Name of the guide
1.	“Effect of yoga therapy in Generalized Anxiety Disorder”	Dr. Annapoorna K	Dr. Latha K.S.
2.	“Effect of yoga therapy on physical, psychological, Bio-chemical and other quality of life parameters in Premenopausal women”	Dr. Gayathri Nayak	Dr. Anjali Rao

**The details of our publications are described below:**

**International: Year 2012**

1.	“Prevent Aging through Yoga”	Dr. Annapoorna K.	Presented as Invited speaker at KARGERICON 2012 held on 8 and 9 of September conducted by Karnataka chapter of Indian Academy of Geriatrics at Kasturba Medical College, Mangalore.
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**Year 2013**

**National Conference:**

Sl.No	Title of the presentation	Name of the faculty	Details of Conference
1.	“Impact of Yoga Therapy in the management of anxiety condition”	Dr. Annapoorna K.	At National Conference on Yoga therapy, Mangalore University 18 <sup>th</sup> and 19 <sup>th</sup> January 2013
2.	“ Healing Touch of Yoga “ - “Pain the Neck – How and Why”	Dr. Annapoorna K.	Moderator for a session in the National Conference in Yoga therapy held on 18 <sup>th</sup> and 19 <sup>th</sup> January 2013, at Mangalore University.  In CME on organized by the Department of Anatomy, KMC Mangalore on 27 <sup>th</sup> January 2013.

**Publications:****International journals:**

1. Annapoorna K, Latha KS, Vasantalaxmi K (2013) Impact of Yoga Therapy in the management of Subjective Stress on selected Physiological and Biological measures in Females. *International Indexed Indian journal of Applied Research*, May, ISSN 2249-555X, Volume 3, Issue 5, 24 –27
2. Effects of Yoga Therapy on Obesity and Quality of life in Women: A Longitudinal Study Annapoorna K, Vasantalaxmi K (2013). *International journal of Yoga and Allied Sciences*, ISSN 2279-5159, June, Volume 2, Issue 1, 17 –23
3. Practice of Meditation: A Physiological Approach. Annapoorna K, Vasantalaxmi K (2013), *International journal of Scientific Research*, June, ISSN 2277-8179, Volume 2, Issue 6, 473 –474
4. Annapoorna, K., Latha. K.S., S.M.Bhat., Bhandary. P.V. (2013), Management of Anxiety conditions : Therapeutic perspective of Yoga , *International journal of Scientific Research*, July, ISSN 2277-8179, Volume 2 , Issue 7 , 303-305
5. Annapoorna, K., Latha. K.S., S.M.Bhat., Bhandary. P.V. (2013). Effect of Yoga Therapy on Psychological well - being and Quality of life in Anxiety Disorders. *International journal of Yoga and Allied Sciences*, July, ISSN 2279-5159, Volume 2, Issue 2, 97–103
6. Annapoorna, K., Latha. K.S., S.M.Bhat., Bhandary. P.V. (2013). A Preliminary Study of Efficacy of Yoga Therapy in Anxiety Disorders. *DS International Interdisciplinary journal* , July, Volume 02, ISSN 2279-0578 , 32-39

**National:**

1. Annapoorna K & Vasantalaxmi K (2013) Pranayama and its Evolution as Practice. *Proceedings of National Conference on Yoga Therapy 18-19 January*. Published by Department of Human Conscious & Yogic Sciences, Mangalore University. ISBN: 978-81-921866-3-4. LIS Academy International. pp 31-40

**Year 2014**

**International Conference:**

Sl.No	Title of the presentation	Name of the faculty	Details of Conference
1.	“Effect if Yoga therapy on Risk factors of Diabetes Mellitus” – A preventive Perspective”	Dr. Annapoorna K.	In 3 <sup>rd</sup> Annual Global Health care Conference on 23 -24 June 2014 at Singapore.
2	Participated: National Conference:	Dr. Annapoorna K	“Ayurvision 2014” entitled “Spine disorders and their management on 22 <sup>nd</sup> & 23 <sup>rd</sup> Dec. 2014 organised by dept. of Ayurveda, KMC, Manipal University.

**PUBLICATIONS:**

**International Journals:**

**Publication: Indexed:**

- 1 Effect of Yoga therapy on Risk factors of Diabetes Mellitus – A preventive perspective” Annapoorna K, Latha K.S, proceedings of the 3<sup>rd</sup> Annual Global Health Care Conference (GHC) 2014 published by GSIF and indexed by EBSCO, cross ref, proquest, Ulrichweb. ISSN: 2251 – 3833. H:81-82.
2. “Impact of yoga practice on Physio logical measures in Anxiety conditions” Annapoorna K, Latha K.S, Bhat SM, Bhandary P.V. International Journal of Yoga and Allied Sciences ISSN: 2278-5159 Jan-June 2014, volume:03 Issue:01 34-37.

**Dr. Annapoorna K. – Best Achievement:**

1. Presented a paper titled “Effect if Yoga therapy on Risk factors of Diabetes Mellitus” – A preventive Perspective” in 3<sup>rd</sup> Annual Global Health care International Conference on 23 -24 June 2014 at Singapore.
2. Published a paper titled “Effect of Yoga therapy on Risk factors of Diabetes Mellitus – A preventive perspective” Annapoorna K, proceedings of the 3<sup>rd</sup> Annual Global Health Care Conference (GHC) 2014 published by GSIF and indexed by EBSCO, cross ref, proquest, Ulrichweb. ISSN: 2251 – 3833. H:81-82.
3. Guest Lectures: 09



4. T. V Programs: 09

## 12. Placement record of the past students and the contribution of the department to aid student placements

Nil

## 13. Plan of action of the department for the next five years

1. Propagation of Yoga and Yoga Therapy in Public through writing articles in daily newspapers and electronic Medias.
2. Conducting yoga camps for publics.
3. Organizing workshops, seminars in yoga to increase awareness in Yoga and Yoga Therapy.
4. Department aims at building on the current curriculum by implementation of modern methods of teaching like problem based learning and integrated learning both vertical and horizontal.
5. Optimum utilization of resources to enhance student learning and help them achieve their learning goals and to modify teaching to improve the outcomes in the examinations.
6. Design new means of evaluation to better the effectiveness of the teaching program.
7. To maintain the research activities and publications in national and international indexed journals.
8. To explore the means to attract external grants for research projects.
9. To improve inter-departmental research projects.
10. Faculty will be encouraged to get trained in newer teaching-learning and evaluation methodologies so that they can be implemented to improve the curriculum effectively.
11. To motivate the faculty to attend and present papers at least once a year in national/ international conferences.



## ANNEXURE NO. HS 1

## Manipal University Admissions 2013 - Courses offered

Institution / Department	Courses	Eligibility
Department of Atomic and Molecular Physics, Manipal	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.
	M Sc Physics (Nanoscience & Technology )	Candidate must have passed Bachelors Degree with a minimum of 55% marks in any of the following areas •B.Sc. in Physics •B.Tech. in Chemical Engineering/Biomedical Engineering, Material Science/Applied Physics.
	MSc Biophysics	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.
	PG Diploma in Photonics	
Department of Sciences, Manipal	M Sc Chemistry	The candidate must have passed B Sc with Chemistry as major subject with a minimum of 50% marks in aggregate.
	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	Pass in 10+2, A Level, IB, American 12th grade or equivalent with a minimum of 50% marks in aggregate.
	BBM Financial Markets	
	BBM Professional	
	BBM Logistics & Supply Chain	
	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 including Medicine, Dental Sciences, Nursing, Allied Health Sciences, Life Sciences and mainstream Science graduates are also eligible.
Certificate Course in Global Health		
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.

Kasturba Medical College, Mangalore	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 Gastroenterology	The candidates must have passed MD General Medicine.
	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	Pass in MBBS degree recognized by Medical Council of India.
	MD Anatomy	
	MD Biochemistry	
	MD Dermatology	INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible.
	MD General Medicine	
	MD Microbiology	
	MD Paediatrics	Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year.
MD Pathology		
MD Pharmacology		
MD Physiology	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 from the date of admission.	
MD Radio-diagnosis		
MS General Surgery		
MS Obstetrics & Gynaecology		
MS Ophthalmology		

	MS Orthopaedic Surgery	
	MS Otorhinolaryngology	
	PG Diploma – Anaesthesiology	
	PG Diploma – Child Health	
	PG Diploma – Clinical Pathology	
	PG Diploma – Dermatology	
	PG Diploma – Obstetrics & Gynaecology	
	PG Diploma – Ophthalmology	
	PG Diploma – Orthopaedics	
	PG Diploma – Otorhinolaryngology	
	MPT Cardio-pulmonary Sciences	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 Community Based Rehabilitation	
	MPT Neurosciences	
	MPT Orthopaedics	
	MPT Paediatrics Physiotherapy	
	M Sc Medical – Anatomy	The candidate must have passed B Sc with at least one subject of Biological Sciences or BAMS or MBBS or BHMS or BPT or B Pharm or any other professional graduates from a recognized University. B Sc graduates with Physics and Chemistry optionals, could be considered for admission to M Sc Biochemistry course. Candidates must have obtained not less than 50% marks in aggregate at the qualifying examination.
	M Sc Medical – Biochemistry	
	M Sc Medical – Microbiology	
	M Sc Medical – Pharmacology	
	M Sc Medical – Physiology	
Kasturba Medical College, Manipal	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
	DM Cardiology	MD in General Medicine or Paediatrics from a college recognized by the Medical Council of India.
	DM Neurology	
	DM Gastroenterology	
	DM Nephrology	Permanent registration with Medical Council of India.
M Ch Cardiothoracic	MS in General Surgery from a college	

Surgery	recognized by the Medical Council of India. Permanent registration with Medical Council of India.
M Ch Neuro Surgery	
M Ch Paediatric Surgery	
M Ch Urology	
MD Anaesthesiology	<p>Pass in MBBS degree recognized by Medical Council of India.</p> <p><b>INTERNSHIP:</b> Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible.</p> <p>Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year.</p> <p><b>REGISTRATION:</b> Candidates should have obtained permanent registration with Medical Council or any of the State Medical Council or should obtain the same within one month from the date of admission.</p>
MD Anatomy	
MD Biochemistry	
MD Community Medicine	
MD Dermatology	
MD Forensic Medicine	
MD General Medicine	
MD Hospital Administration	
MD Microbiology	
MD Paediatrics	
MD Pathology	
MD Pharmacology	
MD Physiology	
MD Psychiatry	
MD Radio-diagnosis	
MD Radio-therapy	
MD Pulmonary Medicine	
MD (Immunohematology & Blood Transfusion)	
MS General Surgery	
MS Obstetrics & Gynaecology	
MS Ophthalmology	
MS Orthopaedic Surgery	
MS Otorhinolaryngology	
PG Diploma – Anaesthesiology	
PG Diploma – Child Health	
PG Diploma – Clinical Pathology	
PG Diploma – Dermatology	
PG Diploma – Obstetrics & Gynaecology	
PG Diploma – Ophthalmology	
PG Diploma –	

Orthopaedics	
PG Diploma – Otorhinolaryngology	
PG Diploma – Psychiatry	
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 – Anatomy	The candidate must have passed B Sc with at least one subject of Biological Sciences or BAMS or MBBS or BHMS or BPT or BP harm or any other professional graduates from a recognized University. B Sc graduates with Physics and Chemistry optionals, could be considered for admission to M Sc Biochemistry course. Candidates must have obtained not less than 50% marks in aggregate at the qualifying examination.
M Sc Medical – Biochemistry	
M Sc Medical – Microbiology	
M Sc Medical – Pharmacology	
M Sc Medical – Physiology	
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 Neonatology	Pass in Post Graduate Degree (MD/DNB) in Paediatrics.
Fellowship in Diabetes	Pass in Post Graduate Degree (MD General medicine) or equivalent.



School of Information Science, Manipal	M Sc Tech ( Embedded Systems)	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>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.</p>
	M Sc Tech (Medical Software)	<p>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.</p>
	M Sc Tech (VLSI Design)	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>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.</p>
	M Sc Tech (VLSI System Design & Verification) - Whizchip	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>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 &amp; Verification) Lateral Entry.</p>
	M Sc Tech (IT Management)	<p>The candidate must have passed BE/B Tech in any branch of Engineering with a minimum of 50% marks in aggregate.</p>



	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 seeking admission to M Sc Tech (Computing Technologies & Virtualization) Lateral Entry.
	M Sc Tech (Embedded Systems and Wireless Technology)	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 (Embedded Systems and Wireless Technology) Lateral Entry.
	M Sc Tech (High Performance Computing)	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 (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 & Communication, Electrical & Electronics,
	Dual Degree - Edinburg Napier University, UK	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	<ul style="list-style-type: none"> <li>• B Sc in Computer Science/Information Science/Mathematics/Electronics/Physics/Chemistry/BCA with minimum 50% aggregate marks</li> <li>• Equivalent qualifications from Universities outside India are also considered.</li> </ul>
School of Allied Health Sciences, Manipal	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.
	BSc Clinical Optometry	
	Bachelor of Occupational Therapy	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.
	Bachelor of Physiotherapy	
	B Sc Cardiovascular 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	
	B Sc Medical Radiotherapy Technology	
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.	

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	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.
MOT Hand & Musculoskeletal conditions	
MOT Neuro Rehabilitation	
MOT Mental Health & Psychosocial Rehabilitation	
MPT Cardio-pulmonary Sciences	
MPT Community Based Rehabilitation	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 Neurosciences	
MPT Orthopaedics	
MPT Paediatrics Physiotherapy	
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	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.
MRT Neonatal & Paediatric Respiratory Care	
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	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 Medical Laboratory Technology - Microbiology & Immunology	
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 Medicine 2) Computers in Nuclear Medicine 3) Biomedical Engineering
	M Phil Clinical Psychology	The candidates must have passed fulltime 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.
Manipal Health Systems, Bangalore	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 Imaging Technology	
	M Sc Hospital & Health Information Administration	The candidates must have passed any Bachelors degree from a recognized University with minimum of 50% marks.
	MPT Cardio-pulmonary Sciences	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 Community Based Rehabilitation	
	MPT Orthopaedics	
MPT Neurosciences		
Manipal College of Dental Sciences, Mangalore	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.
	MDS Conservative Dentistry & Endodontics	Pass in BDS degree or equivalent degree recognized by Dental Council of India.
	MDS Oral and Maxillofacial Surgery	
	MDS Oral Pathology & Microbiology	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.
	MDS Orthodontics & Dentofacial Orthopaedics	
	MDS Paedodontics & Preventative dentistry	
	MDS Periodontology	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.
	MDS Prosthodontics & Crown and Bridge	
	MDS Public Health Dentistry	
	MDS Oral Medicine and Radiology	

	Post Graduate Diploma Dental Materials		
Manipal College of Dental Sciences, Manipal	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	Pass in BDS from any institution recognized by the Dental council of India.	
	Post Graduate Certificate Course in Oral Implantology		
	Post Graduate Certificate Course in Laser Dentistry		
	MDS Public Health Dentistry	<p>Pass in BDS degree or equivalent degree recognized by Dental Council of India.</p> <p>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.</p> <p>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.</p>	
	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		
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		Pass in B Sc/PB B Sc Nursing/ GNM recognized by Indian Nursing Council and a minimum of 55% marks in aggregate.
	Post Basic Diploma in - Oncology Nursing		
	Post Basic Diploma		



	in - Operation Room Nursing	
School of Nursing, Mangalore	B Sc Nursing	<p>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.</p> <p>DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible.</p>
Manipal College of Nursing, Manipal	B Sc Nursing	<p>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.</p> <p>DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible.</p>
	PB B Sc Nursing	<p>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.</p>
	Post Basic Diploma in - Cardio Thoracic Nursing	<p>Pass in B Sc/PB B Sc Nursing/ GNM recognized by Indian Nursing Council and a minimum of 55% marks in aggregate.</p>
	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 - Operation Room Nursing	
	Post Basic Diploma in - Orthopedic and	



	Rehabilitation Nursing	
	M Phil Nursing	The candidate must have passed M Sc Nursing recognized by Indian Nursing Council with at least 60% marks in aggregate.
	M Sc Community Health Nursing	<p>Pass in B Sc/PC B Sc/PB B Sc Nursing recognized by Indian Nursing Council with minimum of 55% marks in aggregate.</p> <p>EXPERIENCE: The applicants must have 1 year of experience as on 31.07.2013 after B Sc Nursing in a hospital of at least 100 beds or in a community health programme or in a school or college of Nursing. PB B Sc degree holders need to have one year experience either before or after Post Basic B Sc Nursing degree.</p>
	M Sc Medical Surgical Nursing	
	M Sc Obstetrics & Gynaecology Nursing	
	M Sc Child Health (Paediatric) Nursing	
	M Sc Psychiatric (Mental Health) Nursing	
Manipal College of Pharmaceutical Sciences, Manipal	Bachelor of Pharmacy	<p>Pass in 10+2 with Physics, Chemistry and English with Mathematics or Biotechnology or Computer Science or Biology as optional subjects.</p> <p>Candidates who have passed 10+2 from national open school are not eligible for admission under the Pharmacy Act.</p>
	Lateral B pharm	Diploma holders in Pharmacy from an Institution recognized by the Pharmacy Council of India.
	Pharm D	<p>Pass in 10+2 examination with Physics, Chemistry and English with Mathematics or Biology as optional subjects / D Pharm or any other equivalent qualification recognized by the Pharmacy Council of India.</p> <p>Candidates who have passed 10+2 from national open school are not eligible for admission under the Pharmacy Act</p> <p>DATE OF BIRTH: Should be on or before 31.12.96</p>
	Pharm D Post Baccalaureate	BP harm from an institution recognized by the Pharmacy Council of India with minimum of 50% marks in aggregate.
	M Pharm Pharmaceutical Administration	B Pharm from an institution recognized by the Pharmacy Council of India with minimum of 50% marks in aggregate.
	M Pharm Pharmaceutical Biotechnology	
	M Pharm Pharmaceutical Chemistry	
M Pharm Pharmaceutical Marketing		

	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	
School of Communication, Manipal	BA Journalism & Communication	Pass in 10+2, A Level, IB, American 12th grade or equivalent and a minimum of 45% marks in aggregate. Arts group subjects will be the preferred qualification.
	Certificate in Animation Technology	Candidates with a pass in 10+2 or those pursuing B Sc with Mathematics as one of the subjects or students of 3 years Diploma in Engineering. Computer knowledge, proficiency in Mathematics and good communication skills are essential.
	MA Communication	The candidate must have a bachelor's degree in any discipline from a recognized university and a minimum of 50% marks in aggregate.
	Post Graduate Diploma in Corporate Communication	The candidate must have a bachelor's degree 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.
	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.
	Masters in Film Art and Film Making	The candidate must have a bachelor's degree 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 Management, Manipal	MBA	The candidate must have a bachelor's degree in any discipline from a recognized university. They should have secured not less than 50% marks in aggregate.
School of Regenerative Medicine,	M Sc Regenerative Medicine	The candidates must have passed B Sc with at least one subject of Biological Sciences or MBBS or B Pharm or BV Sc or BE

Bangalore		Biotechnology or any other professional graduate programme from a recognized university and a minimum of 60% marks in aggregate.
	M Phil Regenerative Medicine	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.
Faculty of Architecture Planning & Design, Manipal	Bachelor of Architecture	<p>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:</p> <ul style="list-style-type: none"> <li>· 10+2 with Mathematics and English as compulsory subjects</li> </ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>· 3 years Diploma after 10 years of schooling (any stream) recognized by Central/State Government with Mathematics and English as compulsory subjects</li> </ul>
	Bachelor of Design (Fashion Design)	Pass in 10+2 or 3 years Diploma by the Central/State Government or equivalent qualification from any Board
	Bachelor of Science (Fashion Design-Couture)	
	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

Manipal Institute of Technology, Manipal	B Tech Aeronautical 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 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 Computer Science & Engineering	
	B Tech Electrical & Electronics	
	B Tech Electronics & Communication	
	B Tech Industrial & Production Engineering	
	B Tech Information Technology	
	B Tech Instrumentation and Control Engineering	
	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 State 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	The candidates must have passed the following courses with a minimum of 50% marks in aggregate.
M Tech in Astronomy & Space Engineering	ADVANCED THERMAL POWER & ENERGY SYSTEMS: BE/B Tech or AMIE or equivalent in Mechanical or Industrial & Production or Manufacturing Science or Automobile Engineering.
M Tech in Biochemical Engineering	ASTRONOMY & SPACE ENGINEERING: BE/B Tech or AMIE in Aeronautical Engineering, Electrical Sciences-Electrical /Electronics/Instrumentation/Mechatronics.
M Tech in Biomedical Engineering	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 Instrumentation Engineering.
M Tech in Chemical Engineering	BIOCHEMICAL ENGINEERING: BE / B Tech or AMIE or equivalent in Biotechnology, Chemical Engineering, Pharmaceutical Technology ,Bio-Chemical Engineering, Bio Process Engineering.
M Tech in Computer Aided Mechanical Design & Analysis	CHEMICAL ENGINEERING: BE/B Tech or AMIE in Chemical Engineering/Bio-Chemical Engineering/Petroleum Engineering/Environmental Engineering/Bio Process Engineering/Bio Technology/ Pharmaceutical Technology.
M Tech in Computer Science & Information Security	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.
M Tech in Computer Science & Engineering	COMPUTER SCIENCE & ENGINEERING: BE/ B Tech or AMIE or equivalent in
M Tech in Construction Engineering & Management	
M Tech in Control Systems	
M Tech in Digital Electronics & Advanced Communication	
M Tech in Energy Management, Auditing & Lighting	
M Tech in Engineering Management	
M Tech in Environmental Engineering	
M Tech in Industrial Biotechnology	

	M Tech in Industrial Pollution & Control	<p>Computer Science or Electronics &amp; Communication or Electrical &amp; Electronics or Electronics &amp; Telecommunication or Telecommunication Engineering or Instrumentation Engineering or Information Technology.</p> <p>COMPUTER SCIENCE &amp; INFORMATION SECURITY: BE/B Tech or AMIE or equivalent in Computer Science or Electronics &amp; Communication or Electrical &amp; Electronics or Electronics &amp; Telecommunication or Telecommunication Engineering or Instrumentation Engineering or Information Technology.</p>
	M Tech in Manufacturing Engineering & Technology	
	M Tech in Microelectronics	
	MTech in Network Engineering	
	MTech in Power Electronic Systems & Control	
	MTech in Printing & Media Engineering	
	MTech in Software Engineering	
	MTech in Structural Engineering	<p>CONSTRUCTION ENGINEERING &amp; MANAGEMENT: BE/B Tech or AMIE or equivalent in Civil Engineering or Architecture.</p> <p>CONTROL SYSTEM: BE/B Tech or AMIE or equivalent in Electrical Sciences or Electronics or Instrumentation or Mechatronics.</p> <p>DIGITAL ELECTRONICS AND ADVANCED COMMUNICATIONS: BE / B Tech or AMIE or equivalent in Electronics &amp; Communication/Electrical &amp; Electronics/Electronics &amp; Instrumentation/ Telecommunication Engineering.</p> <p>ENERGY MANAGEMENT, AUDITING &amp; LIGHTING: BE/B Tech or AMIE or equivalent in Electrical &amp; Electronics or Electronics &amp; Communication or Instrumentation.</p> <p>ENGINEERING MANAGEMENT: BE/B Tech or AMIE in any branch of Engineering.</p> <p>ENVIRONMENTAL ENGINEERING: BE/B Tech or AMIE in Civil/Chemical Engineering/Ceramic Technology/Mechanical/Metallurgy/Mining/ Environmental/Bio-Chemical Engineering/Bio-Technology.</p> <p>INDUSTRIAL BIOTECHNOLOGY: BE/B Tech or AMIE or equivalent in Biotechnology or Chemical Engineering or Pharmaceutical Technology or Biochemical</p>



		<p>Engineering or Bioprocess Engineering.</p> <p><b>INDUSTRIAL POLLUTION CONTROL:</b> BE/B Tech or AMIE or equivalent in Chemical Engineering, Mechanical Engineering, Biotechnology or Civil Engineering.</p> <p><b>MANUFACTURING ENGINEERING &amp; TECHNOLOGY:</b> BE/B Tech or AMIE or equivalent in Mechanical or Manufacturing or Industrial &amp; Production or Mechatronics or Automobile Engineering or Production Engineering or Material &amp; Metallurgy.</p> <p><b>MICROELECTRONICS:</b> BE/B Tech or AMIE or equivalent in Electrical &amp; Electronics, Electronics &amp; Communication, Electronics &amp; Telecommunication, Instrumentation &amp; Control.</p> <p><b>NETWORK ENGINEERING:</b> BE/B Tech or AMIE or equivalent in Computer Science or Electronics &amp; Communication or Electrical &amp; Electronics or Information Technology.</p> <p><b>POWER ELECTRONIC SYSTEMS &amp; CONTROL:</b> BE/B Tech or AMIE or equivalent in Electrical &amp; Electronics or Electronics &amp; Communication or Instrumentation &amp; Control.</p> <p><b>PRINTING &amp; MEDIA TECHNOLOGY:</b> BE/B Tech or AMIE or equivalent in any branch of Engineering.</p> <p><b>SOFTWARE ENGINEERING:</b> BE/B Tech or AMIE or equivalent in Computer Science and Engineering or Information Technology or Information Science and Engineering.</p> <p><b>STRUCTURAL ENGINEERING:</b> BE/B Tech or AMIE or equivalent in Civil Engineering</p>
	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

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.
Department of Culinary Arts & Allied Hospitality Studies, Manipal	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.
	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	The candidate must have passed bachelors degree in any discipline from a recognized university with a minimum of 55% marks in aggregate.
	MA in English	
	MA in Sociology	
	Integrated MA - PhD	
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 Science, Manipal	Information Science	Commerce group.
	M Sc Library and Information Science	The candidate must have a bachelors degree in B.A/B.Com/B.Sc/B.C.A/B.B.M etc.
	M Sc Library and Information Science (Lateral Entry)	The candidate who have a Bachelor's degree in Library and Information Science (B.L.I.Sc.; one year).

प्रज्ञानं ब्रह्म



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## 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](http://www.manipal.edu)