

Centre for Balance Disorders

Coordinator: Dr Ajay Bhandarkar / Dr Kailesh Pujary Evaluation Period: Phase I/Phase II/Phase III/Phase IV

Centre Overview



Centre		
Approval Da	4 th May 2020	
Coordinator	Dr Ajay Bhandarkar	
Inception Da	ate 15 th May 2020	
Term	Two years	
Reporting to	Dean, Kasturba Medical College, MAHE, Manipal	
Statement		
Vision	To become a globally recognized center for balance disorders	
Mission	To excel in the management of balance disorders and promote the same by doing quality patient care, training and research	
Objectives	To develop a comprehensive multidisciplinary clinic for assessment and management of individuals with balance and vestibular disorders. To foster innovation, and to train / mentor students, researchers and health care providers in the area of balance and vestibular disorders. To conduct short term training courses and workshops. To develop e-health platform for awareness, assessment and self-help modules. To foster evidence based practices, best practices and multi-centric studies.	

Members and Stakeholders



Team Members:

Mentors:

• Dr Kailesh Pujary

Members :

- Dr John Solomon (Physiotherapy)
- Dr Krishna (Audiology)

Key Stakeholders Involved

- Neurology, Neurosurgery
- Speech & Hearing
- Physiotherapy
- Medicine, Geriatrics, Paediatrics
- Ophthalmologist
- Rehabilitation nurse
- Clinical psychologists
- Social worker
- Biomedical engineering

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	15-5-2020 to 14-5- 2022	Symposium, guest lectures, thesis, applying for grants, rehabilitation of inpatient and out patient, research work	One symposium and two guest lectures conducted Applied for a grant – not approved Rehabilitation of pts being done Two thesis – one completed, one ongoing
Phase 2			
Phase 3			
Phase 4			

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course		
Workshops/ Conference	Symposium conducted on 16-10-2020	
Research Grants Applied	Grant applied for research and rehabilitation in 2020	Not approved
Research Publications		
Collaborations	Henri Traboulsi, Paediatric balance disorders, USA	One guest lecture conducted
Consultancy/ Revenue	On daily basis through ENT dept – pts with balance disorders (tests and rehabilitation done)	Revenue for the ENT dept, KH, Manipal; from patient consultation, procedures

Final Review



Target	Results	Review
Phase 1	Symposium and guest lectures conducted Research grant applied but not approved Thesis (research work) ongoing Outpatient and inpatient services – for balance disorders has increased	
Phase 2		
Phase 3		
Phase 4		

Guest lecture

ACADEMY of HIGHER EDUCATION (Deemed to be University under Section 3 of the UGC Act, 1956)

Dr Aishwarya Anand

- 1. Pearls in the management of BPPV
- 2. How to rule in/out stroke in 10 mins.

On Microsoft teams 6:30 – 7:30 pm 15th May 2021





Additional Information

Photographs

Publication list:

News paper articles:

Grants:

Collaborating institutes & Centers: MCV ENT hospital, Pollachi

Any other relevant information



Center For Excellence In Inborn Errors of Metabolism(CE-IEM)

Coordinator Dr Leslie Edward Simon Lewis Professor and Head Paediatrics Kasturba Medical College, Manipal Manipal Academy of Higher Education Evaluation Period: Phase I/Phase II/Phase III/Phase IV

Centre Overview



Centre		Center For Excellence In Inborn Errors of Metabolism (CE-IEM)
Approval Date		1 st January 2016
Coordinator		Dr Leslie Edward Simon Lewis
Inception Date	•	21 st December 2015
Term		3 years
Reporting to		Dean Kasturba Medical College, Manipal
Statement		
Vision		opment of state of art metabolic lab to detect Inborn Errors of Metabolism, Adult metabolic disorders, Monitoring drug entration and Toxicology estimations
Mission		opment and establishment of routine and high-risk newborn screening in the Udupi district, Decrease infant mortality norbidity. Extending the facility to neighboring districts, capacity building in the field of newborn screening.
Objectives	 and morbidity. Extending the facility to neighboring districts, capacity building in the field of newborn screening. 1)Establishment of newborn screening at MAHE constituent Hospitals and extend the facility to the government dist. 2)Document the incidence of IEM in the Udupi district and develop a geography-specific reference range of Bion 3)Extending cost-effective newborn screening to neighboring districts and pan Karnataka. 4)Create awareness, establish networks, train IEM experts, support research and execute IEM projects 5)Provide genetic workup counselling for the parents of children suffering from IEM disorders 6) High-end toxicology screening and drug level monitoring 	

Members and Stakeholders

Team Members:

Mentors : Dr Leslie Edward Simon Lewis

Members :

- Dr. Krishnananda Prabhu RV
- Dr. Anibh Das
- Dr. Anil B Jalan
- Dr. Varashree B.S
- Dr. Revathi P Shenoy
- Dr. Sudheer Moorkoth
- Dr. Girisha K.M.
- Dr. Dhanya Lakshmi
- Dr Koushik H
- Dr.Prajna P Shetty
- Mr. Y S Phaneendra M
- Ms. Arya Raveendran



Key Stakeholders Involved

- MAHE constituent Hospitals
- Government
- Clinicians
- Parents
- Child caregivers

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1-6 Months	 Procurement of GCMS instrument. Providing GCMS Training for Students and Technicians Indo German Metabolic Meet (IGMM) 2021 	 CE IEM Awarded for the DBT FIST 2020 IGMM 2022 will be conducted with collaboration with Hannover Medical School Germany
Phase 2	7-12 Months	 Utilization of GCMS in Newborn Screening Panel Standardisation of confirmatory tests using GCMS 	
Phase 3	13-18 Months	 To develop website, NBS guidelines, questionnaires, health communication brochures, leaflets 	 Web URL: ceiem-manipal.com Guidelines and leaflets developed in consultation with experts in the field.
Phase 4	19-24 Months	 Extending Newborn screening, Conduct conference, Initiate awareness and capacity building activities, Standardisation confirmatory tests using GCMS 	

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Training Modules And Workshop On NBS And IEM Screening And Diagnosis.	
Workshops/ Conference	Indo- German metabolic meet 2021, awareness program(8) on new-born screening and inborn errors of metabolism, training program(4) on NBS specimen collection	13
Research Grants Applied	ICMR-BMBF, Grand challenges, Canada, VGST(Karnataka), DBT-GLUE grant, Neutrica SERB, AICTE- MODROBS, Philips-India, DBT women and child Health programme ,Wellcome trust DBT India Alliance, SERB CRG, DST-FIST 2020	4
Research Publications	14 research paper publications, 20 (poster presentation), 3 (oral presentations)	37
Collaborations	Manipal College of Pharmaceutical Sciences, Department of Paediatrics (Kasturba Hospital), Dept of Biochemistry (KMC, Manipal), Dr TMA Pai Rotary Hospital, Karkala, Dr. TMA Pai Hospital Udupi, Arogya Raksha DH Udupi, Arogya Raksha GH Karkala and Kundapura, Phillips India, Hannover Medical School, Germany ,Prasanna school of Public Health, MAHE	10
Consultancy/ Revenue	Through the NBS programme and Indo German Metabolic Meet-2021 the Centre has generated a revenue of 14,25,000.00 in the year 2021-2022	

Final Review



Target	Results	Review
Phase 1 July 2020-December 2020	693 Babies were screened	 6 TSH,18 CAH,9 PKU,4 BIO,12,GAL ,2 MSUD, 1 G6PD detected Positive and Recommended for the confirmatory test
Phase 2 Jan 2021- June 2021	 444 Babies were screened Ms Prajna P Shetty awarded with PhD degree 	 12 CAH,2 BIO, 4 GAL, 2 G6PD detected Positive and Recommended for the confirmatory test
Phase 3 July 2021- December 2021	 1300 Babies Were Screened IGMM 2021 	 4 TSH,10 CAH,1 PKU,3 BIO, 2GAL, 3 G6PD detected Positive and Recommended for the confirmatory test IGMM 2021 Conducted Online Mode
Phase 4 Jan 2022-April 2022	 1200 Babies Were Screened CME/Workshop 	 5 TSH, 3 CAH,1 BIO, 2 GAL, detected Positive and Recommended for the confirmatory test CE-IEM Organized talk on Newborn Screening For IEM

Additional Information

Photographs





Publication list

- Raveendran, A.; Chacko, T.J.; Prabhu, P.; Varma, R.; Lewis, L.E.; Rao, P.; Shetty, P.P.; Mallimoggala, Y.S.P.; Hedge, A.; Nayak, D.M.; et al. Need and Viability of Newborn Screening Programme in India: Report from a Pilot Study. Int. J. Neonatal Screen. 2022, 8, 26. <u>https://doi.org/10.3390/ijns8020026</u>
- Shetty PP, Naik B, Lewis L, Nalini K, Rao P. Reverse phase-high performance liquid chromatography: An alternative to expensive tandem mass spectrometry screening for amino acid profiling in dried blood spot in resource constrained diagnostic settings. Journal of Krishna Institute of Medical Sciences University. 2021;10(3):29-39.
- 3. B. S. V, Poduri S, Lewis LE, Shenoy Belle V. Novel urinary markers: taurine, dopamine and L-fucose levels in predicting neonatal seizures. Biomedicine [Internet]. 2021Dec.31 41(4):732-6.
- 4. Shetty, PP, Thriveni, Nalini K. Inhibition assay of ala dehydratase by succinyl acetone in tyrosinemia type 1: a rapid ht1 screening technique for resource constrained diagnostic setups. Malaysian Journal of Biochemistry and Molecular

- 5. Shetty PP, Biswas M, Belle VS, Lewis LES, Moorkoth S, Rao P, Nalini. K. Maternal Awareness and Article State of Public Health Derese and Article State of Public Health Derese archiver and the UGC Act, 1950 Development. 2020; 11(8), 90-96.
- 6. Mathew EM, Moorkoth S, Lewis L, Rao P. Biomarker profiling of vitamin responsive seizures: a potential tool to detect pediatric seizures of unknown aetiology. Bioanalysis. 2020 Jan 1;12(2):111-124. <u>https://doi.org/10.4155/bio-2019-0121</u>
- Shetty PP, Nagendra K, Nalini K, Rao P, Bhaskaranand N, Belle VS. Amino Acid Profile and Lactate Pyruvate Ratio: Potential Adjunct Markers for Differentiating Inborn Errors of Metabolism. Indian J Clin Biochem. 2020 Oct;35(4):430-435. doi: 10.1007/s12291-019-00840-1. Epub 2019 Jul 5. PMID: 33013012; PMCID: PMC7502630.
- 8. Vemugadda, H., Shetty, PP., Biswas, M., Shenoy, R. P., & Nalini, K. Erythrocytes arginase activity and serum nitric oxide in diabetes mellitus. Malaysian Journal of Biochemistry and Molecular Biology. 2019; 22(3), 33-37.
- Mathew, E. M., Moorkoth, S., Rane, P. D., Lewis, L., & Rao, P. (2019). Cost-Effective HPLC-UV Method for Quantification of Vitamin D2 and D3 in Dried Blood Spot: A Potential Adjunct to Newborn Screening for Prophylaxis of Intractable Paediatric Seizures. Chemical & pharmaceutical bulletin, 67(2), 88-95. <u>https://doi.org/10.1248/cpb.c18-00542</u>
- Mathew, E. M., Rao, P., Shetty, R., Lewis, L., & Moorkoth, S. (2019). Analytical validation strategies for dbs biomarker assays. Research Journal of Pharmacy and Technology, 12(8), 4031-4038. https://doi.org/10.5958/0974-360X.2019.00695.4
- Mathew, E. M., Sakore, P., Lewis, L., Manokaran, K., Rao, P., & Moorkoth, S. (2019). Development and validation of a dried blood spot test for thiamine deficiency among infants by HPLC–fluorimetry. Biomedical Chromatography, 33(11), [e4668]. https://doi.org/10.1002/bmc.4668



- Samreen M Sheik, Shetty PP. et.al. Accidental diagnosis of Alkaptonuria in a suspected case of Mucopolysaccharidosis. Sch. J. Med. Case Rep., Apr 2018; 6(4): 252-255
- 13. Pawar C, Rao P, Lewis L, Moorkoth S. Development of a GC-MS bioanalytical method to detect organic acidemia in neonatal/ paediatric urine sample. International Journal of Pharmacy and Technology. 2016 Jun 1;8(2):13110-13124.
- Dabke, Partha and Rao, Pragna (2012) Diagnostic Challenges in Mitochondrial Disease. International Journal of Health and Rehabilitation Sciences, 1 (1). pp. 25-31

News paper articles

'కామినేని'లో జీఎంఎంఎం సదస్తు ప్రారంభం

నార్కట్పల్లి : నార్కట్పల్లిలోని కామినేని వైద్య కళాశాలలో జన్యు, పరిమాణం వ్యాధి నిర్దారక పరీక్షలు, సమస్యలపై మూడు రోజుల పాటు నిర్వహించే జీఎరి ఎంఎం (జెనెటిక్ మల్టిక్యూలర్ డైనసిస్ మోడ్రన్ మెడిసిన్) అంతర్మాతీయ సద స్పును శుక్రవారం ప్రారంభించారు. ఈ సద స్పులో భాగంగా మొదటి రోజు వర్క్ష్ నిర్వ హించారు. ఈ వర్క్షేషాప్ ను కసూబ మెడికల్ కళాశాల మనిపాల్ అసిస్పెంట్ టీమ్ బయోకె మిస్టీ డాక్టర్ ప్రజ్ఞారావు పాల్గొని వివిధ అంశా

లపై వైద్య విద్యార్థులకు అవగాహన కల్పించారు. అనం తరం క్యాన్ఫర్ వ్యాధిపై జన్యు, పరమాణువు స్కానింగ్ పరీక్షలు చేసే విధానాన్ని తెలియజేశారు. నవజాతి శిశు వులకు జన్యుపరమైన వ్యాధిగ్రస్తులపై చిన్న పిల్లలకు స్కానింగ్ చేయు విధానాలను తెలిపారు. ఇలాంటి టల్, లియాసిస్, జెనిటిక్, యాంటి నటల్, గైనకాలజి, పరీక్షలను కర్ణాటక ప్రభుత్వం ప్రజలకు అందుబాటులో ఉండే విధంగా చేస్తున్నట్లు తెలిపారు. శిశుమరణాలు తగ్గించేందుకు కీలకమైన పరీక్షలు అందుబాటులో ఉండే మేధావులు దాదాపు 300 మంది పాల్గొననున్నట్లు విధంగా మెడికల్ కళాశాల విద్యార్థులకు తెలియజే సేందుకు ఇలాంటి సదస్సులు నిర్వహిస్తున్నట్లు తెలిపారు. 17, 18 తేదీల్లో నిర్వహించే ఈ కాన్ఫరెన్స్ కు



పలీక్షలు నిర్వహిస్తున్న వైద్యులు

అంతర్జాతీయ డాక్టర్లు, ప్రొఫెసర్లు హాజరుకానున్నట్లు తెలిపారు. ఈ కాన్ఫరెన్స్ ప్రారంభోత్సవానికి శనివారం డాక్టర్ గారేందర్ కుమార్ యూకే విచ్చేస్తున్నట్లు తెలిపారు. ముఖ్యంగా క్యాన్సర్ సంబంధించిన లియోన న్యూరోలజీ సంబంధించిన లోపాలపై దృష్టి సారించను న్నట్లు తెలిపారు. కాన్ఫరెన్ఫ్రేలో అంతర్జాతీయ, జాతీయ తెలిపారు. ఈ కార్యక్రమంలో డాక్టర్ శోభారాణి, సునిత, చిన్నపరెడ్డి, జిఎం శౌరీరెడ్డి, డిజీఎం శ్రీధర్రెడ్డి తదిత రులు ఉన్నారు.



News article on sakshi paper dated 17-12-2016



ಉದಯವಾ goigg ನಿಮ್ಮ ಆರೋಗ್ಯಕ್ಕೆ ಉದಯವಾಣಿಕೊಡುಗೆ



ಡಾ। ಲೆಸ್ಪಿ ಎಡರ್ಡ್ ಲೂಯಿಸ್ ಪೊಫೆಸರ್ ಮತು ಹೆಡ್, ಕೊಆರ್ಡಿನೇಟರ್, ಸೆಂಟರ್ ಫಾರ್ ಎಕಲೆನ್ ಇನ್ ನ್ಯೂಬಾರ್ನ್ ಎರರ್ ಆಫ್ ಮೆಟಬಾಲಿಸಂ, ಪೀಡಿಯಾಟ್ರಿಕ್ಸ್ ವಿಭಾಗ, ಕೆಎಂಸಿ, ಮಾಹೆ, ಮಣಿಪಾಲ

ಮಣಿಪಾಲ

ವೈ.ಎಸ್. ಫಣೀಂದ, ಎಂ.

ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ. ವಿಶ್ವ

ಕಾಯಿಲೆಯನು 1,000 ಮಂದಿ

ಆರೋಗ್ತ ಸಂಸ್ಥೆ (ಡಬ್ಲುಎಚ್

ಒ)ಯು ಅಪರೂಪದ

ಯಲ್ಲಿ ಒಬ್ಬರು ಅಥವಾ

ಮಂದಿಯನು ಬಾದಿಸುವ.

ಜೀವಮಾನ ಪರ್ಯಂತ

ಅದಕ್ಷಿಂತಲೂ ಕಡಿಮೆ

ಕೆಎಂಸಿ, ಮಾಹೆ, ಮಣಿಪಾಲ

ರಿಸರ್ಚ್ ಸ್ಥಾಲರ್, ಪೀಡಿಯಾಟ್ರಿಕ್ ವಿಭಾಗ,

ನರಳುವಿಕೆಯನ್ನು ಉಂಟುಮಾಡುವ ಕಾಯಿಲೆ

ಎಂಬುದಾಗಿ ವ್ಯಾಖ್ಸಾನಿಸುತ್ತದೆ. ಆದರೆ ವಿವಿಧ

ದೇಶಗಳು ಈ ವಿಚಾರದಲ್ಲಿ ತಮ ಅಗತ್ಯಗಳಿಗೆ

ತಕುದಾಗಿ ಮತ್ತು ಜನಸಮುದಾಯ, ಆರೋಗ,

ತಮದೇ ಆದ ವ್ಯಾಖ್ಯಾನವನು ಹೊಂದಿವೆ. ಆದರೆ

ಭಾರತದಲ್ಲಿ ಅಪರೂಪದ ಕಾಯಿಲೆಗಳ ಉಪಸ್ಥಿತಿ

ಸೇವಾ ವ್ಯವಸ್ಥೆ ಸಂಪನ್ಮೂಲಗಳ ಆಧಾರದಲ್ಲಿ

ಕಡಿಮೆ ಎಂಬುದಾಗಿ ಅದಕ್ಕೆ ಸಂಬಂಧಿಸಿದ

ದಿನಾಂಕವನು ಅಪರೂಪದ ಕಾಯಿಲೆಗಳ

ದಿನವನಾಗಿ ಆಚರಿಸಲಾಗುತ್ತದೆ. ಜನರು

ಮತ್ತು ನಿರ್ಧಾರ ರೂಪಕರಲ್ಲಿ ಅಪರೂಪದ

ಜೀವನದ ಮೇಲೆ ಬೀರುವ ಪ್ರಭಾವದ ಬಗ್ಗೆ

ಅಪರೂಪದ ಕಾಯಿಲೆಗಳು ಇರಬಹುದು:

ವೈಯಕಿಕ ಕಾಯಿಲೆಗಳು ಅಪರೂಪದಲ್ಲಿ

ಇರಬಹುದು. ಜಾಗತಿಕವಾಗಿ ಅಪರೂಪದ

ಕಾಯಿಲೆಗಳಿಂದ ಬಳಲುತ್ತಿರುವವರ ಸಂಖ್ರೆ

ಅವರೂಪದ ಕಾಯಿಲೆಗಳಲ್ಲಿ ಶೇ. 72ರಷ್ಟು

ವಂಶವಾಹಿ ಅಪರೂಪದ ಕಾಯಿಲೆಗಳಲಿ ಶೇ.

70ರಷ್ಟು ಬಾಲ್ಯದಲ್ಲಿಯೇ ಆರಂಭವಾಗುತ್ತವೆ.

ಪ್ರಮಾದಗಳು (ಇನ್ ಬಾರ್ನ್ ಎರೆರ್ ಆಫ್

ವಂಶವಾಹಿಯಾಗಿದ್ದು, ಈ ಅಪರೂಪದ

ಚಯಾಪಚಯ ಕ್ರಿಯೆಯ ಅಂತರ್ಗತ

30 ಲಕ್ಷ ಎಂದು ಅಂದಾಜಿಸಲಾಗಿದೆ.

ಕಾಯಿಲೆಗಳ ಬಗ್ಗೆ ಮತ್ತು ಅವುಗಳು ರೋಗಿಗಳ

ಅರಿವನು ಮೂಡಿಸುವುದು ಈ ದಿನಾಚರಣೆಯ

ಉದ್ದೇಶವಾಗಿದೆ. ಸರಿಸುಮಾರು 7 ಸಾವಿರದಷ್ಟು

ರೋಗಶಾಸ್ತೀಯ ಅಂಕಿಅಂಶಗಳು ಹೇಳುತ್ತವೆ.

ಪ್ರತೀ ವರ್ಷ ಫೆಬ್ರವರಿ ತಿಂಗಳ ಕೊನೆಯ

ಯಾವದೇ ಒಂದು ಕಾಯಿಲೆಯು 25,000

ಚಯಾಪಚಯ ಕ್ರಿಯೆಯ ಅಂತರ್ಗತ ಪ್ರಮಾದಗಳು ಕಿಣ್ಣಗಳ ಚಟುವಟಿಕೆಗಳನು ಒಳಗೊಂಡ ಜನಜಾತ ತೊಂದರೆಗಳ ವಂಶವಾಹಿ ಮಂದಿಯಲ್ಲಿ ಒಬ್ಬರನ್ನು ಬಾಧಿಸಿದಾಗ ಅದನ್ನು ಅಪರೂಪದ ಕಾಯಿಲೆ

ನೀವು

ಕಾಯಿಲೆಗಳ ಸಮೂಹ. ಇವುಗಳಲ್ಲಿ ಬಹುತೇಕ ತೊಂದರೆಗಳು

ಆರೋಗ

ತಿಳಿದಿರಬೇಕಾದೇನು?

ಮೆಟಬಾಲಿಸಂ) ಅಪರೂಪದ ಕಾಯಿಲೆಗಳ

ತಿಶುಗಳಲ್ಲಿ ಮತ್ತು ತಿಶುಗಳಲ್ಲಿ ಕಂಡುಬರುತ್ತದೆ.

ಒಂದು ಸಮುಚ್ಚಯವಾಗಿದ್ದು, ನವಜಾತ

ಎಎಧ ದೃವ್ಯ (ಸಬ್ಸ್ಗಾಟ್)

ಪರಿವರ್ತಿಸುವ

ಉಂಟಾಗುತದೆ. ಚಯಾಪಚಯ ಕಿ.ಯೆಗಳ

ಚಯಾಪಚಯ ಕ್ರಿಯೆಯ ಸಮಸ್ಯೆಗಳು ಅಥವಾ

ಮಕಳು ನಿರೀಕಿತ ಬೆಳವಣಿಗೆ ಕಾಣದೆ ಇರುವುದು.

🔳 ಸ್ಪನ್ನಪಾನ, ಆಹಾರ ಸೇವನೆ ಸರಿಯಾಗಿಲ್ಲದಿರುವುದು

📕 ರಕದಲ್ಲಿ ಅಮೋನಿಯಾ ಅಥವಾ ಆಮ್ಲ ಇರುವುದು

ಪೀಡಿಯಾಟ್ರಕ್ ವಿಭಾಗ, ಕೆಎಂಸಿ, ಮಣಿಪಾಲ

💻 ಪಿತ್ರಜನಕಾಂಗದ ಚಟುವಟಿಕೆ ಸರಿಯಾಗಿಲ್ಲದಿರುವುದು

📕 ಹೊಟ್ಕೆಯ ಸಮಸ್ಯೆಗಳು ಅಥವಾ ವಾಂತಿ

ಅಂತರ್ಗತ ಪ್ರಮಾದಗಳು ಜತಜಾತ

💻 ದಣಿವು ಮತ್ತು ಶಕ್ತಿಯ ಕೊರತೆ

ಮಾಡಬಹುದಾಗಿದೆ.

ಮುಖ್ಯಸ್ಥರು,

ಲಕಣಗಳು

ಕಿಣಗಳ ಕೋಡ್

ಗಳನು ಇತರ ಉತನಗಳಾಗಿ

ನವಜಾತ ಶಿಶುಗಳ

ಗಳನು ಹೊಂದಿರುವ ಏಕ ವಂಶವಾಹಿಗಳನು ಬಾದಿಸುತವೆ. ಬಹುತೇಕ ಸಮಸ್ಯೆಗಳಲ್ಲಿ ವಿಷಕಾರಿ

ಅಂಶಗಳು ಸಂಗ್ರಹಗೊಳುವುದು ಅಥವಾ ಸಹಜ ಚಟುವಟಕೆಗಳಿಗೆ ಅಡಿಯಾಗುವುದು ಅಥವಾ ಆವಶ್ಯಕ

ಸಂಯುಕಗಳನು ಸಂಯೋಜನೆಗೊಳಿಸುವಲ್ಲಿ (ಮಾರಣಾಂತಿಕವಾದ ಅಥವಾ ಸರಿಪಡಿಸಲಾಗದ ಕುಗ್ರಿದ ಚಟುವಟಿಕೆಯಿಂದ ತೊಂದರೆ ಹಾನಿ ಉಂಟಾಗಿರುವಂತಹ ಹಂತ) ಅಥವಾ

ಸೌಲಭ್ಯಗಳ ಕೊರತೆ ಹಾಗೂ ಅಸಮರ್ಪಕ ತಪಾಸಣೆ ಮತ್ತು ರೋಗಪತ್ತೆ ಸೌಕರ್ಯಗಳ ಸಹಿತ ಅನೇಕ ಅಂಶಗಳಿಂದಾಗಿ ಈ ಅಪರೂಪದ ಕಾಯಿಲೆಗಳನು ಬೇಗನೆ ಪತೆ ಮಾಡುವುದು ಒಂದು ಸವಾಲಾಗಿರುತ್ತದೆ. ಆದ್ದರಿಂದ ಈ ವಂಶವಾಹಿ ಚಯಾಪಚಯ ಸಮಸ್ಯೆಗಳು ತುಂಬಾ ಮುಂದುವರಿದ ಹಂತಗಳಲ್ಲಿ ಪತ್ತೆಯಾಗುತ್ತವೆ

🔳 ವಿವರಣೆ ಇಲ್ಲದ ತೂಕನಷ್ಟ ಅಥವಾ ತೂಕ ಗಳಿಸಿಕೊಳ್ಳದೆ ಇರುವುದು ಮತ್ತು ಶಿಶುಗಳು ಮತ್ತು

📕 ಹೈಪರ್ ಗ್ಲೈಸೇಮಿಯಾ ಅಥವಾ ರಕ್ತದಲ್ಲಿ ಸಕ್ತರೆಯ ಅಂಶ ಕಡಿಮೆ ಇರುವುದು

💻 ಶಿಶುಗಳು ಮತ್ತು ಮಕ್ತಳಲ್ಲಿ ಬೆಳವಣಿಕೆ ನಿಧಾನವಾಗುವುದು, ಬುದ್ಧಿಮಾಂದ್ರ

🔳 ಸೆಳವು ಇವುಗಳಲ್ಲಿ ಕೆಲವು ಲಕ್ಷಣಗಳನ್ನು ನವಜಾತ ಶಿಶುಗಳ ಪರೀಕ್ಷೆಯ ವೇಳೆ ಪತ್ತೆ

ಈ ಲೇಖನದಲ್ಲಿರುವ ವಿಚಾರಗಳ ಬಗ್ಗೆ ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಳಿಗಾಗಿ ಸಂಪರ್ಕಿಸಿ:

ಅದಿಕ ವಂಶಪಾರಂಪರ್ಯ ಚಯಾಪಚಯ ಕಾಯಿಲೆಗಳಿವೆ. ಸಾಂಪ್ರದಾಯಿಕವಾಗಿ ವಂಶವಾಹಿ ಚಯಾಪಚಯ ಕಾಯಿಲೆಗಳನು ಕಾರ್ಬೊಹೈಟ್ ಚಯಾಪಚಯ ಕ್ರಿಯೆಯ ಸಮಸ್ಯೆಗಳು, ಸಾವಯವ ಆಮ್ಲ ಚಯಾಪಚಯ ಸಮಸ್ಯೆಗಳು ಅಥವಾ ಲೈಸೊಸೋಮಲ್ ದಾಸ್ತಾನು ಕಾಯಿಲೆಗಳು ಎಂದು ವರ್ಗೀಕರಿಸಲಾಗುತದೆ. ಜನರಲ್ಲಿ ತಿಳಿವಳಿಕೆಯ ಕೊರತೆ (ಆರೋಗ್, ಸೇವಾ ಪೂರೈಕೆದಾರರ ಸಹಿತ), ಆರೋಗ್ಯ ಸೇವಾ

ಪತ್ರೆಯಾಗದೆ ಉಳಿದು ವಿವರಣೆ ಇಲ್ಲದ ನವಜಾತ

ಶಿಶು/ ಶಿಶು ಮರಣ ಉಂಟಾಗುತ್ತದೆ ಅಥವಾ

ಶಾಶ್ವತ ಹಾನಿಯನ್ನು ಉಂಟು ಮಾಡುತ್ತವೆ.

ವಂಶಪಾರಂಪರ್ಯ ಚಯಾಪಚಯ ಸಮಸ್ಯೆಗಳು

ಎಂದು ಸಾಮಾನ,ವಾಗಿ ಕರೆಯಲಾಗುತ್ತದೆ.

ಇದುವರೆಗೆ ಗೊತ್ತಿರುವಂತೆ 500ಕ್ಕೂ

ನವಜಾತ ಶಿಶುಗಳ ಆರೋಗ್ಯ: ನೀವು ತಿಳಿದಿರಬೇಕಾದ್ದೇನು? ಕಳೆದ ವಾರದಿಂದ

ನವಜಾತ ತಿತು ಪರೀಕೆ ಎಂದರೇನು?

ನವಜಾತ ಶಿಶುಗಳಲ್ಲಿ ಜನಜಾತವಾಗಿ ಇರುವ ಚಯಾಪಚಯ/ ವಂಶವಾಹಿ ಸಮಸ್ಯೆಗಳನ್ನು ಪತ್ರಹಚ್ಚಲು ಈ ಮಾದರಿಯ ರಕ್ಷಪರೀಕ್ಷೆಗಳನು ನಡೆಸಲಾಗುತ್ತದೆ. ನವಜಾತ ಶಿಶು ತಪಾಸಣೆಯು ನಿರ್ದಿಷ್ಠ ಭೌಗೋಳಕ ಪ್ರದೇಶದಲ್ಲಿ ಸಾಮಾನವಾಗಿರುವ ಅಥವಾ ಹೆಚು ಕಾಣಿಸಿಕೊಳುತಿರುವ ಚಯಾಪಚಯ/ ವಂಶವಾಹಿ ಸಮಸ್ಯಗಳನು ಪತೆಹಚ್ಚುವ ಪರೀಕ್ಷೆಗಳ ಗುಚ್ಚವನು ಒಳಗೊಂಡಿರುತ್ತದೆ. ಲಕ್ಷಣಾಧಾರಿತವಾಗಿ ಅಥವಾ ವೈದ್ಯಕೀಯವಾಗಿ ಪತ್ತೆಯಾದಲ್ಲಿ ಭೌಗೋಳಿಕವಾಗಿ ಅಪರೂಪಕೆ ಗುರುತಿಸಲಡುವ ಇತರ ಅನಾರೋಗ್ಯಗಳಿಗಾಗಿಯೂ ಪರೀಕ್ಷೆಗಳನು ನಿರ್ದಿಷ ಮಗುವಿನ ಅಗತ್ರಗಳಿಗೆ ಅನುಸಾರವಾಗಿ ನಡೆಸಲಾಗುತ್ತದೆ. ಆದರೆ ರೂಡಿಗತ ನವಜಾತ ತಿಶು ಪರೀಕೆಗಳು ಈ ಅತ್ಯಂತ ಅಪರೂಪವಾಗಿ ಗುರುತಿಸಲಡುವ ಕಾಯಿಲೆಗಳ ಸಮೂಹದ ಪರೀಕೆಗಳನು ಒಳಗೊಳ್ಳುವುದಿಲ್ಲ. ನವಜಾತ ಶಿತು ಪರೀಕೆಯನು

ಯಾಕೆ ನಡೆಸಲೇಬೇಕು?

ಲಕಣಗಳು ಕಾಣಿಸಿಕೊಳು

ನವಜಾತ ತಿತ್ರು

ಪರೀಕೆಯನು ಹೇಗೆ

ರಕದಿಂದ.

ತೆಗೆಯಲಾದ ಕೆಲವು ಹನಿ

ಉಂಟಾಗ ಬಲ ಸರಿಪಡಿಸಲಾದ ನರಶಾಸ್ತ್ರೀಯ ಮತ್ತು ಬೆಳವಣಿಗೆ ಸಂಬಂಧಿಸಿ ಹಾನಿಗಳನ್ನು ತಪಿಸಲು. ಕಸೂರ್ಬಾ ಆಸತ್ಯೆ ಮಣಿಪಾಲದಲ್ಲಿ ನವಜಾತ ಶಿಶು ಪರೀಕೆ ಪ್ರಾನೆಲ್ ಮಣಿಪಾಲದ ಕಸೂರ್ಭಾ ಆಸತ್ಯೆಯ ನವಜಾತ ಶಿಶು ವಿಭಾಗದ ಪರೀಕಾ ತಂಡವು ಕರಾವಳಿ ಪ್ರದೇಶದಲ್ಲಿ ಸಾಮಾನ್ಯವಾಗಿ ಪತೆಯಾಗುವ ಚಯಾಪಚಯ (ಜೀರ್ಣಕ್ರಿಯೆಗೆ ಸಂಬಂಧಿಸಿದ) ಪರೀಕೆಗಳನು ನವಜಾತ ಶಿಶುಗಳಿಗೆ ನಡೆಸುತ್ತದೆ. ಇವುಗಳಲ್ಲಿ ಜನಜಾತವಾಗಿ ಕಂಡುಬರುವ ತೀವ್ರತರದ ಗಳಗಂಡ ರೋಗ ಲಕಣಗಳು ಅಥವಾ ಹೈಪೋಥೈರಾಡಿಸಂ, ಅಡ್ಡಿನಲ್ ಗೃಂಥಿಯಲ್ಲಿ ಕಂಡುಬರುವ ಸಮಸ್ಯೆಗಳು (ಅಡ್ಡಿನಲ್ ಹೈಪರ್ ವ್ಯದಹಿಂತ ಮುನವೇ ಅನಾರೋಗ್ರಗಳನು

ವರದಿ ಪಾಸಿಟಿವ್ ಆಗಿದಲಿ ಏನು ಮಾಡಲಾಗುತ್ತದೆ?

ನವಜಾತ ತಿಶು ಪರೀಕ್ಷೆ ನಡೆಸಲಾದ

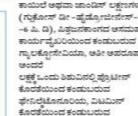
ಯಾವುದೇ ಅಪರೂಪದ ಕಾಯಿಲೆಗೆ ಶಿಶು ಪಾಸಿಟಿವ್ ವರದಿ ಬಂದಿದ್ದಲ್ಲಿ ಹಾನಿಯನು ತಡೆಯಲು ತತ್ಕಣ ಮುನೆಚ್ಚರಿಕೆಯ ಕ್ರಮಗಳನು ಕ್ರೆಗೊಳ್ಳಲಾಗುತ್ತದೆ. ಇದಲ್ಲದೆ ರೋಗಪತ್ರೆಯನು ಖಚಿತಪಡಿಸಿಕೊಳ್ಳಲು

ಈ ಚಯಾಪಚಯ ಕಿಯೆಯ

ತಾಯ್ತಂದೆಯ ಕನಸಾಗಿರುತ್ತದೆ ಮತ್ತು

ನಮ ಭವಿಷ್ಯದ ಆಧಾರ ಸಂಭವಾಗಿರುತ್ತದೆ. ಚಯಾಪಚಯ ಕಿಯೆಯ ಅಪರೂಪವಾದ ಕಾಯಿಲೆಗಳ ಪರೀಕ್ಷೆಯನ್ನು ನಡೆಸುವ ಮೂಲಕ ಪ್ರತೀ ನವಜಾತ ತಿಶುವಿನ ಸಮಗ್ರ ಸೌಖ್ಯ ಮತ್ತು ಕ್ಷೇಮವನ್ನು ಖಚಿತಪಡಿಸಿ ಕೊಳ್ಳುವುದು ಅವರ ಆರೋಗ್ಯವನು ಭದಪಡಿಸಿಕೊಳ್ಳುವಲ್ಲಿ ನಿರ್ಣಾಯಕ ವಾಗಿದೆ. ಮಾತವಲದೆ ಅವರಿಗೆ ಯಾವುದೇ ವಿಧ ವಾದ ಐಎಂಡಿ ಬಾಧಿಸಿದ್ದರೂ ಅತ್ಯುತ್ತಮ ಗುಣ ಮಟದ ಜೀವನವನು ಖಾತರಿಪಡಿಸುವುದಕೆ ಮುಖ್ಯ ವಾಗಿರುತ್ತದೆ. ಆದರೆ ಹತವರು ಮತ್ತು ಶಿಶುವಿಗೆ ಪ್ರಾಥಮಿಕ ಆರ್ದ್ರೆಯನು ಒದಗಿಸುವವರಲ್ಲಿ ಅರಿವು ಮೂಡಿಸುವುದು, ವ್ರೆದ್ರಕೀಯ ಪರೀಕ್ಷೆ ಸೌಲಭ್ಯಗಳ ಲಭ್ಯತ್ಸೆ ಪರೀಕ್ಷೆಗಳು ಮತ್ತು ಖಚಿತಪಡಿಸಿಕೊಳ್ಳುವ ಪರೀಕ್ಷೆಗಳು ಕೈಗೆಟಕುವಂತಿರುವುದರ ಸಹಿತ ಈ ನಿಟನಲ್ಲಿ ಆಗಬೇಕಾದು ಇನೂ ಬಹಳವಿದೆ. ಚಿಕಿತಾತಕ ಕಮಗಳು. 'ವಿಶೇಷ ಮಕಳ' ಬಗ್ಗೆ ಸಮಾಜದಲ್ಲಿರುವ ವಕ್ತದ್ರಷ್ಟಿಯನು ಹೋಗಲಾಡಿಸುವುದು, ಚಿಕಿತೆಗೆ ಒಳಪಡುವುದು ಮತ್ತು ಅನುಸರಣೆಗಾಗಿ ಆಪಸಮಾ ಲೋಚನೆ ಅಗತ್ರವಾಗಿದೆ. ಕಳೆದ ಕೆಲವು ದಶಕಗಳಲ್ಲಿ ಆರೋಗ್ಯ ಸೇವಾ ಕೇತ್ರದಲ್ಲಿ ಸಾಕಷ್ಠು ಮುನಡೆ ಸಾಧಿಸ ಲಾಗಿದೆ. ಎಲ್ಲ ಭಾಗೀದಾರಿಗಳ ಸಕ್ರಿಯ ಪ್ರಯತಗಳ ಮೂಲಕ 'ಪ್ರತೀ ನವಜಾತ ತಿಶುವಿಗೂ ಪರೀಕ್ಷೆ ಮತ್ತು ಅತ್ಯುತ್ತಮ ಆರೋಗ್ಯ ಆರೈಕೆಯನ್ನು ಒದಗಿಸುವ' ನಮ್ಮ ಗುರಿಯನು ಸಾಧಿಸಬಲ್ಲೆವೆಂಬ ವಿಶ್ವಾಸವಿದೆ. ಪ್ರತೀ ನವಜಾತ ತಿಶುವನೂ ಭೌಗೋಳಕವಾಗಿ ಇರುವ ಐಇಎಂಗಳಗಾಗಿ ಪರೀಕೆಗೆ ಒಳಪಡಿಸಬೇಕು, ಏಕೆಂದರೆ, 'ಪ್ರತೀ ಶಿಶು, ಪ್ರತೀ ಬದುಕು ಕೂಡ ಆತ್ಮಮೂಲ್ಯವಾಗಿದೆ'.

eacted ಲಕಕೆ ಒಂದು ಶಿಶುವಿನಲ್ಲಿ ಪ್ರೊಟೀನ್ ಕೊರತೆಯಿಂದ ಕಂಡುಬರುವ ಪೇನಿಲೆಟೊನೂರಿಯ, ವಿಟಮಿನ್ ಕೊರತೆಯಿಂದ ಕಂಡುಬರುವ ಮತ್ತು ಅಮೈನೋ ಲವಣಗಳ ನವಜಾತ ಶಿಶುವಿನ ಹಿಮಡಿಯಿಂದ ಸಿರಪ್ ಯೂರಿನ್ ಡಿಸೀಸ್ (ಎಂ.





ಬಯೋಟನಿಡೇಸ್ ಕಾಯಿಲೆ ಲಕ್ಷಣಗಳು ಅಸಹಜತೆಯಿಂದ ಉಂಟಾಗುವ ಮೇಶ್ ಎಸ್.ಯು.ಡಿ)ಅಥವಾ ಕಾಯಿಲೆ ಲಕ್ಷಣಗಳು

ಪ್ರಾಸಿಯ-ಸಿ. ಎ. ಎಚ್), ಕಾಮಾಲೆ ಗ್ರಾಲಕೋಸೇವಿಯಾ, ಅತೀ ಅಪರೂಪ

-6 ಪಿ. ಡಿ), ಪಿತ್ರಜನಕಾಂಗದ ಅಸಮರ್ಪಕ

ಕಾಯಿಲೆ ಅಥವಾ ಜಾಂಡಿಸ್ ಲಕ್ಷಣಗಳು (ಗುಕೋಸ್ ಡೀ - ಹೈಡ್ರೋಬೀನೇಸ್ - ಚಿ

ವರ್ಜಿಸುವದು. East: ನಿರ್ದಿಷ್ಠ ಲಕಣಗಳನು ನಿಯಂತ್ರಿಸಲು, ಹೆಚ್ಚು ಆರೋಗ್ಯವಾಗಲು ಮತ್ತು ಮಾರಣಾಂತಿಕವಾದ ತುರ್ತುಪರಿಸ್ಥಿತಿಗಳನ್ನು ದೂರ ಮಾಡಲು ಔಷಧಗಳನು ಉಪಯೋಗಿಸಲಾಗುತ್ತದೆ.

ಈ ಕೆಳಗಿನಂತಿವೆ: ಮತ್ತು ಅರಗಿಸಿಕೊಳಲು ಸಾಧ್ಯವಾಗದ ಕೆಲವು ನಿರ್ದೀಷ ಆಹಾರಗಳನ್ನು

ಕಿಣ ಬದಲಾವಣೆ ಚಿಕಿತೆ: ಕಿಣ್ಣ

ಸಮಸ್ಯೆಯನು ಪರಿಹರಿಸಲು

ಆರೋಗ್ಯಯುತ ತಿಶುಜನನ ಪ್ರತೀ

ಸಹಾಯವಾಗುತ್ತದೆ.

ಇಲ್ಲದಿರುವ ಅಥವಾ ಕಡಿಮೆ ಇರುವ

ಇಂಜಿಕನ್ ನೀಡುವುದರಿಂದ ಕೆಲವು

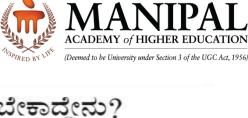
ನಿರ್ದಿಷ್ಟ ಸಮಸ್ಯೆಗಳಿಗೆ ಚಿಕಿತೆ ನೀಡಲು

ಸಮಸ್ಯೆಗಳಿಗೆ ಚಿಕಿತೆಯ ಆಯೆಗಳೇನು? ಚಯಾಪಚಯ ಕ್ರಿಯೆಯ ಸಮಸ್ಯೆಗಳಿಗೆ ಚಿಕಿತ್ರೆಯು ನಿರ್ದಿಷ್ಠ ರೋಗಸ್ಥಿತಿಯನ್ನು ಅವಲಂಬಿಸಿರುತ್ತದೆ. ಸಾಮಾನ್ಯ ಚಿಕಿತಗಳು ಆಹಾರಾಭ್ಯಾಸ ಮತ್ತು ಜೀವನಶೈಲಿಯಲ್ಲಿ ಬದಲಾವಣೆ: ದೇಹವು ನಿರ್ವಹಿಸಲು

ಹಚ್ಚುವರಿ ಪರೀಕ್ಷ್ಮೆ ನಡೆಸಲಾಗುತ್ತದೆ.

ನವಜಾತ ಶಿಶು ಪರೀಕೆಯ









ಮುಂದಿನ ವಾರಕೆ



Grants

Funding Agency	Amount
DST FIST 2020	58,00,000 INR
Vision Group of Science and	60,00,000 INR
Technology, Karnataka.	
Grand Challenges Canada	\$ 1,00,000 CAD
Philips India	5,00,000 INR

Collaborating Institutes & Centres

- Hannover Medical School Germany
- Manipal College of Pharmaceutical Sciences, MAHE





Centre for Congenital Hand differences

Coordinator: Dr. Anil K. Bhat,

Associate Dean

Professor and Head

Department of Hand surgery , KMC, Manipal



Centre Overview

Centre	
Approval Date	30/11/2016
Coordinator	Dr Anil K. Bhat
Inception Date	01/12/2016
Term	2 Years + 2 Years + 2 years
Reporting to	Dean KMC, Manipal
Statement	
Vision	To be a centre of excellence in India for Congenital hand differences.
Mission	To practice comprehensive documentation, clinical knowledge translation, training, innovative research and community services for children with congenital hand differences
Objectives	 Promote awareness of local, regional and national data to create global impact in line with the vision of the University Centre of repute in learning and teaching the management of congenital hand differences and develop holistic patient management with a team based approach Spearhead high quality original and innovative research and development related to hand malformations in India and publish them. Establish bilateral partnerships with high volume regional centres to enhance the potential for international partnerships and grants and achieve academic and innovative prowess. Community participation along with involvement of policy makers to further services to remote areas

Members and Stakeholders



Team Members:

- Co-ordinator: Dr Anil K. Bhat
- Research associates, elective students

Key Stakeholders Involved

- Children with congenital hand differences
- Parents and teachers
- Collaborating Hand surgeons
- Kasturba Hospital
- District administration

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1 – 6 months	 Hand registry website Dissertation on registry system Community survey Congenital hand clinic Mobile app National level collaboration 3D printing 	 Designed ,implemented, functional On going Udupi district Clinic every week at Kasturba hospital " Hastha" App for teachers and parents for screening children 8 Hand surgery centres Prosthetics, orthosis
Phase 2	7 – 12 months	 CME Conference Observerships Publications 	 Integrated CME in Mangalore, COS April 2019 Between 3 hand surgery centres 7 international indexed publications
Phase 3	13 – 18 months	 Masters thesis New Innovations Academics Grants Commercialization 	 Maastricht university, MAHE Custom designed Prosthesis, splints Elective students/ Conference Nidhi EIR grant Splints
Phase 4	19 – 24 months	PhDPatent	 Two proposals sent Prior art search for two possible patent options in process

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome	f HIGHER EDUCATION ty under Section 3 of the UGC Act, 1956)
Certificate Course			
Workshops/ Conference	 Indo US hand surgery conference 2 International presentations at Bulgaria, Biomedical innovation and applications Innovation award: Biz pitch contest, Mangalore 	New Collaborations for future work on registry system	
Research Grants Applied	 Nidhi EIR grant Motorized 3D printing of hand prosthesis, 	Obtained Elevate grant: Proposal sent	
Research Publications	Global health thesis 3 manuscripts	Maastricht university	
Collaborations	National: 8 centresRotaract club	 MoU for Hand registry on CHD Observership , Faculty visits Prosthesis technology exchange/camps 	
Consultancy/ Revenue	3D Printed splints 3D printed face shields	Rs. 40,000	





Target	Results	Review
Phase 1	Achieved the targets	Done
Phase 2	Achieved the targets	Done
Phase 3	Achieved the targets	Present one
Phase 4	On going	

Additional Information











Functional trails of the latest prototype:



Holding a Bag



Holding a Pen



Holding a Bottle



Carrying 5kg weight



Holding a Key



Holding a Phone









400 Face shields provided to front line workers at KH



Additional Information





CATALOGUE OF 3D PRINTED ORTHOSES

Unit of Hand and Micro Surgery Department of Orthopaedics Kasturba Hospital, Manipal









Consultancy and sale through ALC

Additional Information

Publications:



1. Anil K. Bhat; Ashwath Acharya; Naufal Nahas: Radialization with Ulnar Cuff Osteotomy: A Technique for Deformity Correction in Radial Longitudinal Deficiency. Mar 2018 J Hand Surg Am.; 43(3):293-297.

2. Anil K Bhat; Jayakrishnan Narayana kurup; Ashwath M. Acharya; Kumar Bhaskaranand: Outcomes of radialization for radial longitudinal deficiency: 20 limbs with minimum 5-year follow-up. Journal of Hand Surgery (European Volume) · July 2018

3. Anil K. Bhat, Arathi P. Rao, Navya Vyas, Manisha Gore: Qualitative analysis of impact of congenital hand differences on children visiting a tertiary care hospital, Divine Thampi, Clinical epidemiology and Global health:7(2019) 413-417

4. Satyam Chaturvedi, Amartya Gupta, Anil K Bhat, Harish Kumar Kamat: Functional Modification of upper limb Prosthesis for below elbow congenital deficiencies. International Conference on Biomedical Innovations and Applications, BIA 2019. DOI: 10.1109/BIA48344.2019.8967449.

5. Amartya Gupta; Satyam Chaturvedi; Anil K Bhat; Mohammad Samheel; Adita Saxena: Design and manufacture of customizable finger immobilizer and mallet finger splints. International Conference on Biomedical Innovations and Applications, BIA 2019 DOI: 10.1109/BIA48344.2019.8967449.

6. Anil K. Bhat; A.M. Acharya: Current concepts in the management Radial Longitudinal Deficiency: Journal of Clinical Orthopaedics & Trauma, Volume 11, Issue 4, July–August 2020, Pages 597-605

7. Satyam Chaturvedi, Amartya Gupta, Vimal Krishnanan, Anil K.Bhat : Design, usage and review of a cost effective and innovative face shield in a tertiary care teaching hospital during COVID-19 pandemic., Journal of Orthopedics, Volume 21, Pages 331-336.DOI: https://doi.org/10.1016/j.jor.2020.07.003.



Centre for Emergency Toxicology

Coordinator: Dr.Freston Marc Sirur Evaluation Period: Phase I/Phase II

Centre Overview



Centre		Centre for Emergency Toxicology	
Approval Date	9	February 11, 2021	
Coordinator		Dr.Freston Marc Sirur (since December 1 st 2021)	
Inception Dat	е	February 15,2021	
Term		2 years	
Reporting to		Dr.Sharath Rao	
Statement			
Vision		To provide service to the nation by reducing the burden of toxicological emergencies.	
Mission	To set up a State of the Art Centre for Emergency Toxicology to translate evidence based toxicological practices for patient care		
Objectives	 1.Academics and training:1.UG and PG toxicology teaching and training though integrated modules.2.HAZMAT Team Training and simulation – MAHE HAZMAT module.3.Setting up of an interactive toxicology museum for toxicological substances and specimens. 2.Research – Areas in Focus1.Point of care diagnostics in toxicology.2.Regional and International research collaboration.3.Research on anti-dotes, delivery systems and treatment modalities.4.Decontamination systems in Emergency departments. 3.Clinical:1.Setting up of a."Tox Cart" - for keeping necessary emergency drugs for quick use. b.Statox panel/lab – quick and easy testing and diagnosis of toxicological substances 2.Initiating a "Tox Board" – Collaboration of clinical and analytical toxicology to 		

Members and Stakeholders

• Team Members:

Dr.Freston Marc Sirur Dr.Jayaraj M.B.



Key Stakeholders Involved

KMC

- MANIPAL POISON INFORMATION CENTRE
- Departments of medicine/critical care/forensic medicine/pharmacology KMC
- Departments of social and preventive medicine -KMC
- Centre for Wilderness Medicine MAHE
- Centre for Disaster management- MAHE

NATIONAL LEVEL

- All India institute of medical sciences- Dr Praveen Agarwal
- Amrita institute of medical sciences-Dr V V Pillay

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	6 months	 1.Interdepartmental associations and preparation of outline indicating each stakeholder's job along with Setting up of the "TOX BOARD" 2.Setting up of protocols for management of toxicology 	Charted out the essential partners and the process in movement
		patients	Completed
		3 .Setting up of TOXCART	Ongoing
		4.Setting up of UG and PG curriculum	Completed
		4.Start data collection and enrolment of patients for the "ToxiK" registry after CTRI registration	Completed
		5.Collaboration with centre for wilderness medicine for the development of the department of emergency Medicine interactive toxicology museum.	Started the process of collaboration
		6 .plan toxicology seminar/workshop schedule for the next one year	Ongoing
		7.start write-ups for research grants	Ongoing



Milestones	Review Period	Planned Activity	Action Taken
Phase 2	6 Months	 start module based training of undergraduates, postgraduate and staff – MAHE hazmat module Training of staff and health care personnel's in HAZMAT decontamination systems Conference/seminar in toxicology Collaboration with center for wilderness medicine for the development of a venomics and poisoning lab. 	
Phase 3	6 Months	 International collaborations Plan to initiate certificate course in emergency toxicology Continuation of work of phase 1 and 2 	
Phase 4			

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course		
Workshops/ Conference		
Research Grants Applied		
Research Publications	 Multicentric Toxicological chemical exposure registry – "TOXIK" (IEC AND CTRI approved) Retrospective study on OP poisoning Retrospective study on rodenticide poisoning Retrospective study on glyphosate poisoning Retrospective study on atropine in OP poisoning Methanol Poisoning –Retrospective Study 	Achieved Ongoing Ongoing Ongoing Ongoing Ongoing
Collaborations		
Consultancy/ Revenue	-	



Final Review

Target	Results	Review
Phase 1	Achieved the targets	completed majority ,Few pending
Phase 2		
Phase 3		
Phase 4		



Additional Information

Photographs

Publication list:

News paper articles:

Grants:

Collaborating institutes & Centres

Any other relevant information



MACSWAD - MAnipal Center for SWAllowing Disorders

Coordinator: Dr Suneel C Mundkur Evaluation Period: Phase I/Phase II/Phase IV

Centre Overview



Centre			
Approval D	Date	01-06-2021	
Coordinato	or	Dr Suneel C Mundkur	
Inception [Date	01-06-2021	
Term		2 years	
Reporting	to	Dean, K M C Manipal	
Statement			
Vision	То	To be the center for excellence in education, research and comprehensive and innovative clinical care for swallowing disorders	
Mission	То	To promote excellence in training and research to provide evidence based clinical services for swallowing disorders with a goal to 'Reach the Required'	
Objectives	 disorders with a goal to 'Reach the Required' To develop a comprehensive multidisciplinary clinic for assessment and management of individuals with swallowing disorders. Focused approach for swallowing disorders in a) children, b) Head & neck oncology cases, c) Neurological illnesses d) geriatrics To foster innovation, and to train/mentor students, researchers and health care providers in this area. To conduct knowledge enhancement workshops for the benefit of novice as well as practicing therapists. To enhance the research in the field of swallowing disorders and rehabilitation through national and international collaboration. 		

Members and Stakeholders



Team Members:

Dr. Shama Shetty, Dept. of Otorhinolaryngology, KMC, Manipal

Dr. Venkataraja Aithal U, Dept. of Speech and Hearing, MCHP

Dr. Usha Devadas, Dept. of Speech and Hearing, MCHP

Dr. Veena K D, Dept. of Speech and Hearing, MCHP

Dr. Deepa Devadiga, Dept. of Speech and Hearing, MCHP

Mentors:

Dr Kailesh Poojari, HoD, Dept. of Otorhinolaryngology, KMC, ManipalDr Leslie E Lewis, Dept. of Paediatrics, KMC, Manipal

Key Stakeholders Involved

Speech and Swallowing division of Department of Speech and Hearing, MCHP, MAHE, Manipal

Departments of Otorhinolaryngology, Neurology, Paediatrics, Paediatric surgery, Radiotherapy, Surgical Oncology, Palliative medicine, Gastroenterology, Genetics, CTVS, Clinical Nutrition and Pulmonary Medicine from Kasturb Medical College, MAHE, Manipal.

Planning for next year



- To allocate venue for starting center ENT OPD identified
- To get scope (FEES) as soon as possible
- To start a data base in standard format and to periodically audit the practice, research-related activities process started
- Prepare software for data entry ready , discussions on with IT team
- Weekly 'Swallowing clinic' Procedures for the evaluation and rehabilitation can be charged as per the prefixed codes/package - yet to be finalized
- To arrange talks (ONLINE/ OFFLINE) from adjunct faculty /experts in this field. (4 lectures conducted)
- Yearly 'paid workshop' to train therapists and clinicians; Generated registration fee and sponsorship fee shall be utilised for developing the center – being planned

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	3 months	Identifying venue and procurement of equipment	-initiate communication to hospital and university authorities
Phase 2	3 months	 -Protocols to be developed -Weekly swallowing clinic to be initiated and follow manual data entry -Identifying and listing the contents for software development based on needs 	Meeting the IT experts for software design and development Manpower for Manual entry and other clerical work
Phase 3	3 months	Software development	Providing support for development of software
Phase 4	3months	Webinar/guest lecture	Inviting guest speakers in relevant areas to provide webinar

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Identifying policies and strategies to develop a certificate program	-
Workshops/ Conference	Identifying the speaker and sending invite	01 –webinar every 3 months
Research Grants Applied	Plan the areas for grant application and identify the funding agencies	-02
Research Publications	Initiate discussion among research groups	-02
Collaborations	Identifying departments / institutions/industries (National and international)for academic and research collaboration	01
Consultancy/ Revenue	-	- Patient care



Additional Information

Photograph

Publication list:

News paper articles:

Grants:

Collaborating institutes & Centers

Any other relevant information

Thesis completed: VALIDATING THE PILOT BALLOON METHOD WITH MANOMETER IN MONITORING THE CUFF PRESSURE IN DYSPHAGIA INDIVIDUALS

Total neurological cases with swallowing disorders treated 117 (Since June 2021)

Total lectures conducted : 4 (2 international speakers)



Name of the Centre: Centre for Wilderness Medicine

Coordinator: Dr.Freston Marc Sirur

Evaluation Period: Phase I / Phase II / Phase IV

Instructions to complete the presentation



- The coordinator of the center will have a maximum of **10 minutes** to make the presentation
- The number of slides in the presentation should be limited to the outline provided Please do not add any slides
- Supplementary information if any, could be attached in a separate word file as annexures
- The font type and size used for the presentation should be **Calibri Size 18**
- **Populate tables** (wherever provided) with relevant information Please do not change the format of the slide or re-format the presentation (font, font color, background color etc.)
- Any **additional information** or pictures can be added in the slide indicated for the purpose, but need to be limited to that one slide.
- Completed presentation should be mailed to provc.fhs@manipal.edu latest by 25th May 2020



Centre Overview

Centre	Centre for Wilderness Medicine
Approval Date	25/11/2019
Coordinator	Dr.Freston Marc Sirur
Inception Date	01/09/2019
Term	2 years extended for 2 more years.(November 2023)
Reporting to	Dr.Sharath Rao,Dean, KMC, Manipal

- Statement
- Vision



- To provide a platform of learning in wilderness medicine in India and internationally.
- To provide a service to the nation with this unique and diverse field.
- To facilitate the development of various initiatives and innovations consistent with the sustainable development goals.
- Mission
- To provide Wilderness Medical services locally, nationally and internationally.
- To drive research, development and innovation in Wilderness Medicine.
- To set up a sustainable division of Wilderness Medicine
- To start training programs and courses in Wilderness Medicine- MD Marine Medicine(MCI approved) programs, short courses(Basic, Advanced and Specialized), Fellowships, student education and community training.

Objectives

- To provide Wilderness Medical services on expeditions to remote or austere environments.
- To obtain training, observerships and participate in conferences on Wilderness Medicine.
- To start training in Wilderness Medicine at MAHE.
- To initiate and complete multidisciplinary Wilderness Medicine related Research and innovation.
- To support all activities that require Wilderness Medical Support.
- To start a Post graduate program in Dive and Marine Medicine.
- To start a High Altitude and Mountaineering Medicine Program.

Members and Stakeholders



Team Members:

Dr.Freston Marc Sirur

Dr.Vrinda Lath

Dr.Jayaraj Mymbilly Balakrishnan

Working committee(positions yet to be filled-call for applications-Jan 2022)

Key Stakeholders Involved

- Department of Emergency Medicine, KMC, Manipal
- MAHE
- MARENA
- Department of Sports Science
- NDMA(Phase 1 of 2nd term)
- NDRF(Phase 1 of 2nd term)
- DRDO(Phase 1 of 2nd term)
- IMF(Phase 1 of 2nd term)
- Coast Guard(Phase 1 of 2nd term)
- Forest department(Phase 1 of 2nd term)
- Navy (Phase 1 of 2nd term)

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1–6 months	Monthly workshops MOU's Bouldering /sport climbing wall Dive centre	 The EMT Wilderness Medicine Workshop WGSHA goes WILD Maastricht Wilderness Medicine Workshop The Adventurer- wilderness First Aid Workshop Nandurbar Doctors Training Workshop MOU's with Barracuda India, SHE-India, Herpactive, ARRS-MCBT and Offtrail Adventures initiated Discussions with Kings college London, Stanford WM and Wayne state university for collaborations undertaken-Halted due to the Pandemic FAWM(WMS) initiated(Dr.Freston) Proposal for Bouldering/sport climbing wall at Marena initiated- design and quotation obtained. Space for the centre- initiated discussion with Dr.Fiddy Davis for a space at Marena MD-Marine medicine Medicine program plan initiated 12. Human-Mammal conflict study with LKSOM proposed



Milestones	Review Period	Planned Activity	Action Taken
Phase 2	7-12 months	3 expeditions as Medical officer cancelled in view of the Pandemic PIT viper expedition	 MOU's signed with (Phase 3) Barracuda India Coastal Impact
Phase 3	13- 18months	Dive expedition to Andamans Desert Expedition MOUs and Online education Rural/Austere outreach-Subject to EMD staffing MOU's and online education initiated	 SHE-India Madras Crocodile Bank Trust Venomics lab-IISc Bangalore Herpactive
Phase 4	19-24 months	Formation of working committee Publication of research projects Wilderness medical support for monsoon expeditions WM conference-December 2021 BOS for Certificate courses	

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Draft in progress-Basic and Advanced wilderness life support course	Pending BOS submission
Workshops/ Conference	 The EMT Wilderness Medicine Workshop WGSHA goes WILD Maastricht Wilderness Medicine Workshop The Adventurer- wilderness First Aid Workshop Nandurbar Doctors Training Workshop Wayne State University Collaborative Lecture series Humane society India and The Liana trust Doctor's Training Workshop in Hunsur and Gundalpet Conservation-Conflict-Coexistence conference Goa forest dept. snake bite and wilderness first response Wayne state Wilderness experience and simulation at ARRS Captain Vishwanaths guest lecture-EMS, Dive medic. Cave diving. scuba professions 	 1.15 students trained through outdoor simulation-Snake bite, Trauma in the Austere Setting.(Feb 2020) 2. 20 students trained in wilderness survival, BLS in the Austere setting, Conservation and ecology.(Feb 2020) 3. Three batches of students elected for the WM workshop including Dive medicine.(Jan 2020) 4. Participants of The Adventurer given an interactive lecture on snake bite, envenomation and Wilderness first Aid. (Feb 2020) 5.150 government employed doctors trained in the management of snake bite, scorpion sting, hymenoptera sting and initial assessment and resuscitation with Manikins.(March 2020) 6. Lecture series for the Post graduates of the Dept of Emergency Medicine- High Altitude emergencies, Dive and marine emergencies. (March 2021) 7.50+ Government employed doctors trained in the management of snake bite, initial assessment and resuscitation.(Jan 2021) 8. 250+ participants- National level E-Conference. 9.200+ forest officers trained 10.Wilderness conference and research proposals, Simulation in the wilderness setting

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Research Grants Applied	4 2 projects in planning phase-Innovations for WM services/ Austere injuries	3 rejected 1 in process
Research Publications	IEC approved Snake bite/envenomation Research in Progress Fall from tree during the Covid -19 pandemic Gaur Attack in the Western Ghats Hymenoptera Heartaches Change in KAP of expeditioners- pending due to Pandemic and Lockdown PLoS NTD (Q1)- Collaborative publication with Liverpool School of Tropical Medicine and SHE-India	Completed-Pending publications VENOMS Registry Fall from tree during the Covid -19 pandemic Gaur Attack in the Western Ghats Hymenoptera Heartaches-Published A Tropical Kiss by a Malabar pit viper-Accepted
Collaborations	Barracuda India, She-India, Herpactive, Offtrail Adventures ARRS, MCBT, Coastal impact, Venomics Lab-IISc WMS affiliation	7 MOU's signed Subsidized WMS conference registration, academic research resource access, MWLS course credits fro FAWM
Consultancy/ Revenue	Sponsored travel, stay and simulation equipment for Nandurbar Doctors Training Workshop by Snake bite healing and Education(SHE-India), Mazgaon docks limited and Laerdal India. CWM, HIS and The Liana trust in collaboration with the taluk hospitals of Hunsur and Gundalpet organized Doctors training workshops. Herpactive- Medical services The last Wilderness Foundation-Design of Remote Wilderness Clinic in Maharashtra/Madhya Pradesh	 200+ doctors trained in the management of snake bite, scorpion sting and hymenoptera envenomation, initial assessment and resuscitation, safe transfers of patients to higher centers. 50+ students 200+ forest officers trained in snake rescue and first response 30+ police officers trained in snake bite first response Dive centre proposal submitted to MAHE-approved Sport climbing wall proposal submitted to MAHE-approved

Final Review



Target	Results	Review
Phase 1	Monthly workshops MOU's Bouldering /sport climbing wall Dive centre	7 workshops completed MOU's initiated Dive and Bouldering institutes plan initiated. Courses structure and approvals in process
Phase 2	3 expeditions as Medical officer cancelled in view of the Pandemic PIT viper expedition Dive expedition to Andamans Desert Expedition	MOU's worked up and submitted Reviewed during last Centre presentation submission.
Phase 3	MOUs and education MOU's and online education initiated	Current 7 MOU's signed One National Level Conference conducted 9 workshops conducted-Hunsur and Gundalpet, Goa FD, PD, DH, PHC-Lions Club Dive centre proposal submitted with budget and space allocation Sport climbing wall proposal submitted with budget and space allocation Space for Centre explored-yet to be confirmed and allocated. Lecture series with Wayne state university initiated- international conference Dec 2021 Mattu beach Clean up Manipal Lake clean up
Phase 4	Formation of working committee Publication of research projects Wilderness medical support for monsoon expeditions WM conference BOS for Certificate courses- Basic and Advanced Wilderness Medical Response.	Initiated. Maximus –BASE- India's Ultimate Warriors Medical consultancy and services(Nov 2021) Goa forest dept snake rescue and snake bite first aid workshops. Manipal Lake clean up drive Mattu beach beach clean up drive Shankaranarayana snake bite first aid workshop

Additional Information



- Publication list:
- Kadam P, Ainsworth S, Sirur FM, Patel DC, Kuruvilla JJ, Majumdar DB. Approaches for implementing society-led community interventions to mitigate snakebite envenoming burden: The SHE-India experience. PLoS Neglected Tropical Diseases. 2021 Feb 25;15(2):e0009078.
- Sirur FM, Wilson W, Gopinathan V, Chethana AS, Lekha N. Hymenoptera heartaches-cardiac manifestation with hymenoptera stings, a retrospective study from a tertiary care hospital in South India. The American Journal of Emergency Medicine. 2021 Dec 1;50:294-300.
- A Tropical kiss by a Malabar Pit viper-Accepted
- News paper articles:
- Collaborating institutes & Centres
 - SOLS
 - MIT
 - IISc-Centre for Ecological studies
 - SHE-India, Herpactive, coastal impact, Barracuda Diving, MCBT-ARRS, The liana Trust, HIS, The last Wilderness Foundation
- Any other relevant information
 - Human wildlife conflict mitigation- over 30 snake human conflict situations mitigated in collaboration with the forest department.
 - 10+ wildlife rescue rehabs
 - Stray Dogs case study on coexistence of domesticated but stray urban dog populations.
 - Wilderness Medical Society Affiliation
 - Student interest group initiated

Photographs













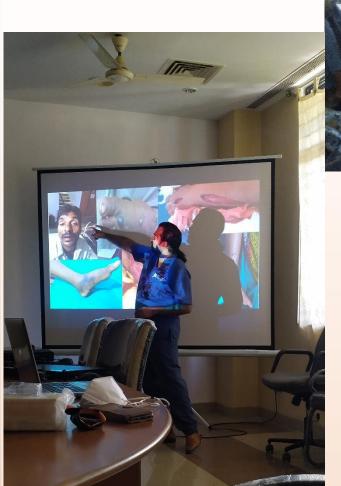


















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Center for Antimicrobial Resistance and Education (CARE)

Coordinator: Dr Vandana K E Evaluation Period: Phase



Centre Overview



RESISTAI	RESISTANCE & EDUCATION		
Centre	Center for Antimicrobial Resistance and Education" (CARE)		
Approval Da	te 19/11/2021		
Coordinator	Dr Vandana K E		
Inception Da	te 01/12/2021		
Term	1		
Reporting to	Dean, KMC, Manipal		
Statement			
Vision	Establish center of excellence to tackle AMR by advancing research and education		
Mission	 To increase awareness and understanding of antimicrobial resistance, its implications, and actions to combat it through effective communication, education, and training of major stakeholders such as prescribers, dispensers, and consumers To establish collaborative research networks with national and international agencies Develop and strengthen research methodologies focusing on evidence informed practices 		
Objectives	 To create and disseminate educational contents to various stakeholders involved in antimicrobial use To enhance the laboratory capability to detect AMR mechanisms To develop skill-based competency modules in IPC, antimicrobial stewardship and AMR surveillance To conduct laboratory, clinical and epidemiological studies 		



Members and Stakeholders



Team Members:

Dr Muralidhar Varma Dr Chiranjay Mukhopadhyay Dr Suneel C Mundkur Dr Shashikiran U Dr Bharti Magazine Dr Asha Kamath

Key Stakeholders Involved

- Doctors
- Dentists
- Pharmacy practitioners
- Pharmacists
- Nurses
- Microbiologists
- All the health sciences students
- Public



Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	December 2021- May 2022	Sensitization workshops	Arranged one workshop and one seminar
Phase 2			
Phase 3			
Phase 4			



Details of the Process and Outcome



Key Activities Details of the Process Measurable Outcome **Certificate Course** Workshops/ Conference 1. Antimicrobial Stewardship for Kasturba Hospital through Education, Leadership and 1. Postgraduates in surgical specialities were trained in the Practice [ASK-HELP], on 4th &5th February 2022 appropriate use of antimicrobial agents, and diagnostic test 2. World hand hygiene day 2022 was organized to spread the awareness on IPC and AMR utilization improvements. 2. 200 students of health sciences students from medical, dental, nursing, physiotherapy and respiratory therapy students participated to learn the importance of IPC and AMR **Research Grants Applied** 1. Detection of class 1 integrons in carbapenem resistant K. pneumoniae and their role in dissemination of antimicrobial resistance in a clinical setting: an experimental study **Research Publications** 1.Epidemiology of sepsis and risk factors for mortality in intensive care unit: a hospital based prospective study in South India. https://doi.org/10.1080/23744235.2021.2017475 2. Antimicrobial resistance and the post antibiotic era: better late than never effort. https://doi.org/10.1080/14740338.2021.1928633 3. Self-reported survey on infection prevention and control structures in healthcare facilities part of a national level healthcare associated infection surveillance network in India, 2019. https://doi.org/10.1016/j.ajic.2021.09.019 4. Stochastic modeling of antimicrobial resistance, JP Journal of Biostatistics 18(2) (2021), 199-208. DOI: 10.17654/JB018020199 Collaborations 1. Industry academia collaboration with bioMerieux **Consultancy**/Revenue



Final Review



Target	Results	Review
Phase 1		
Phase 2		
Phase 3		
Phase 4		



Additional Information



Photographs

Publication list:

News paper articles:

Grants:

Collaborating institutes & Centers

Any other relevant information



Photographs





Manipal Academy of Higher Education (MAHE) and bioMérieux signed an agreement to establish a Center of Excellence for Antimicrobial Resistance and Antimicrobial Stewardship





Centre for Clinical Anthropometry

Coordinator: Dr. Chandni Gupta Evaluation Period: Phase II

Centre Overview



Centre	
Approval Date	1/12/2020
Coordinator	Dr. Chandni Gupta
Inception Date	01/12/2018
Term	2 Years
Reporting to	Dean, KMC, Manipal
Statement	
Vision	To have a anthropometric base line database for the adult and fetal Indian population which will be utilized to identify the sex, age, nutritional status, diseases, human remains and various congenital anomalies.
Mission	To become a Center of distinction in the field of clinical Anthropometry which aims to update and collect various anthropometric data of adult and fetuses of different populations of various regions.
Objectives	 Collecting various anthropometric data of adults, children and fetuses of all parts of India and making a normal database. Identify and explore emerging research issues in the field of clinical anthropometry and apply for grants. To facilitate knowledge dissemination among various stakeholders.

Members and Stakeholders



Team Members:

Mentors : Dr. Sharath K Rao

Members :

Faculties from various departments:

- 1. Anatomy
- 2. Forensic Medicine
- 3. Community Medicine
- 4. OBG

Key Stakeholders Involved

- Academicians
- Law enforcement agencies: police
- Students
- Doctors

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1-6 months	Research projects Webinar on Forensic Anthropology	 2 projects sent for publications 2 Projects making paper for publication 1 publication in Q3 international journal 2 projects are ongoing 1 Project applied for a PhD candidate Webinar: 23rd April, 2021
Phase 2	7-12 months	 Research projects Webinar on Forensic Anthropology 	3 projects sent for publications 1 Projects making paper for publication 1 publication in Q2 international journal 5 projects are ongoing Webinar: 9 th July, 2021
Phase 3			
Phase 4			

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Workshops/ Conference	1. Webinar: 9 th July, 2021 Topic: "Skeletal Examination- A Malaysian Perspective". Total Participants: 120.	
Research Publications	 <u>7 Research projects</u> Comparison of anthropometric measurements in normal, gestational diabetes and hypertensive pregnancies. (Msc PG) Correlation of anthropometric measurements with gestational age of fetus: An ultrasound based study. (Msc PG) Estimation of stature using various Anthropometric measurements in south Indian population and their correlation with Co-Morbid conditions. (Msc PG) Estimation of stature using various Anthropometric measurements in Sikkimese tribal population and their correlation with Co-Morbid conditions. (UG) Anthropometric study on correlation of age with the size of subcortical nuclei and ventricular system of the brain and its implication in degenerative disease(UG) Morphometric study of upper and lower end of humerus with clinical significance (Msc PG) Development of standardized regional growth chart for children of Dakshina kannada (UG) Anthropometric and Histological study of the development of the human fetal stomach (UG) Morphometric and Histologic Study of Human Foetal Appendix (UG) Morphometric analysis of main sulci of Brain with its clinical implications (MSc PG) 	 Published in Q2 journal On going Sent for publication Preparing for publication Sent for Publication (ICMR STS Grant) Sent for publicatoion On going On going On going On going
Collaborations	 Interdepartmental (Forensic Medicine, Community Medicine, OBG, Radiology, pediatrics) International (Universiti Sultan Zainal Abidin, Kampus kota, Jalan Sultan Mahmud, Kuala Terengganu, Malaysia) 	 Research Projects- Publications Webinar
Consultancy/ Revenue	By doing workshop	1100rs profit

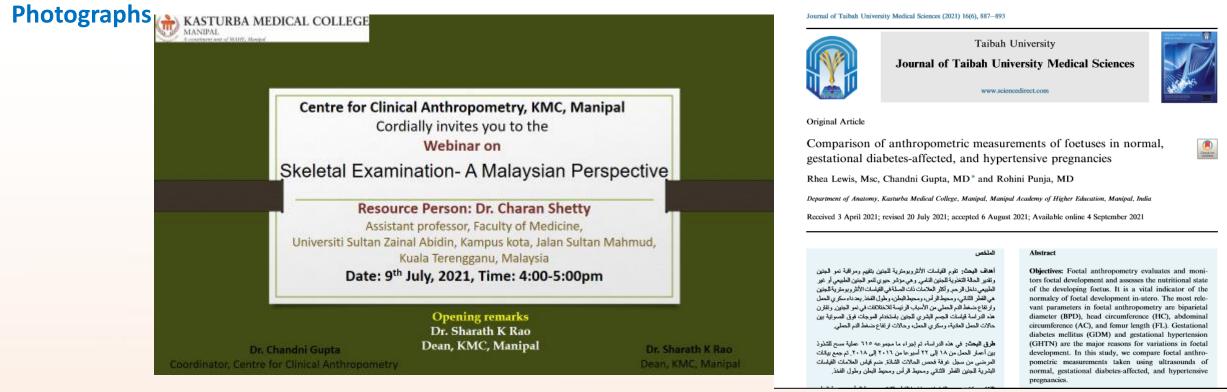
Final Review



Target	Results	Review
Phase 1	 2 Projects making paper for publication 1 published in Q3 international journal 2 projects are ongoing (1accepted for I 1 project applied for a PhD candidate 2 sent for publication 1 Webinar 	
Phase 2	 3 projects sent for publications 1 Projects making paper for publication 1 publication in Q2 international journal 5 projects are ongoing 1 Webinar 	
Phase 3		
Phase 4		

Additional Information





Publication list:

1. Rhea Lewis, Chandni Gupta, Rohini Punja. Comparison of anthropometric measurements of foetuses in normal, gestational diabetes-affected, and hypertensive pregnancies. Journal of Taibah University Medical Sciences, 2021;16 (6):887-893.

Collaborating institutes & Centers: International (Universiti Sultan Zainal Abidin, Kampus kota, Jalan Sultan Mahmud, Kuala Terengganu, Malaysia)



Center for Rare Disease Diagnosis, Research and Training

Coordinator: Dr. Girisha KM Evaluation Period: Phase I

Centre Overview



Centre		Center for Rare Diasease Diagnosis, Research and Training	
Approval Da	te	September 1 2021	
Coordinator		Dr. Girisha KM	
Inception Da	ite	September 1 2021	
Term			
Reporting to		Dean KMC Manipal	
Statement			
Vision	Deve	evelop a Center for Rare Disease as a benchmark for diagnosis, care and research and training in India	
Mission	Тс	To establish a self-sustaining center for cutting edge research in rare disease etiology along with training the next generation of scientists for clinical and fundamental biomedical research.	
Objectives	 To To To To 	o establish a local cohort and biorepository for rare genetic disorders. To deploy exome sequencing (ES), whole genome sequencing (WGS) and RNA-Seq for discovering potential disease-causing variants. To functionally characterize causal genes/variants in cells and model organisms through in vitro assays, proteomics and, metabolomics/lipidomics approaches to understand the potential disease mechanisms. To establish a cutting-edge interdisciplinary research-training program focused on rare diseases for physician-scientists (Clinical Research Training Program (CRTP)), basic scientists and genetic counselors, that integrates clinical and laboratory sciences	

Members and Stakeholders



Team Members:

Mentors :

- Dr. Girisha KM
- Dr. Anju Shukla

Members :

- Dr. Dhanya Lakshmi N
- Dr. Priyanka Upadhyai
- Dr. SriLakshmi Bhavani
- Dr. Shalini Nayak
- Dr. Rama Rao Damerla

Key Stakeholders Involved

Institute of Bioinformatics, Bangalore

• Dr. Akhilesh Pandey

Dr. Reddy's Institute of Life Sciences, Hyderabad

• Dr. Aarti Sevilimedu

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	0-12 months	Patient enrolment Website (including registry, databases, repository) Recruitment for CRTP training program	Recruited 276 families. Exome sequencing and genome sequencing for 269 and 2 patients respectively. Genetic diagnosis achieved in 119 patients. Recruited 6 PhDs, 1 physician scientist and 2 postdoctoral scientists
Phase 2	13-24	Web portal for the virtual center PhD training for 6 CRTP fellows and ~10 PhD scholars	
Phase 3	25-36	Rare disease patient cohort of ~5000 families NGS for ~700 individuals Identification of 3 new genes and upto 10 new vairants	
Phase 4	37-60	PhD Awarded	

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Ŭ	Recruitment of PhD students, Postdoctoral research scientists and Physician scientists
Workshops/ Conference	Every 6 months meeting with stake holders of the India Alliance CRC grant	Publications, new collaborations and study ideas.
Research Grants Applied	1	Center for Rare Disease Diagnosis, Research and Training was established as result of the DBT/Wellcome Trust India Alliance Clinical Research Center grant awarded to Dr. Girisha KM.
Research Publications	3 publications submitted	Currently under review
Collaborations	Institute of Bioinformatics, Bangalore Dr. Reddy's Institute of Life Sciences, Hyderabad	Publications and research grants
Consultancy/ Revenue	-	-



Final Review

Target	Results	Review
Phase 1		
Phase 2		
Phase 3		
Phase 4		

Additional Information

Photographs :

Publication list:

News paper articles: 0

Grants: (1) DBT/Wellcome Trust India Alliance Clinical Research Center grant (INR 13 Crores)

Collaborating institutes & Centers

- Institute of Bioinformatics, Bangalore
- Dr. Reddy's Institute of Life Sciences, Hyderabad

Any other relevant information







Centre for Community Oncology Coordinator: Dr Ranjitha Shetty Evaluation Period: Phase IV & V



Centre Overview

Centre	Centre for Community Oncology
Approval Date	23/11/2015
Coordinator	Suma Nair
Inception Date	20/12/2015
Term	5 Years 5 months
Reporting to	Dr Sharath K Rao, Dean KMC, Manipal
Statement	
Vision	To be a centre of excellence for the prevention and control of cancer in the community
Mission	Bring about cancer control by primary, secondary and tertiary prevention activities
Objectives	 Promote and implement primary, secondary & tertiary levels of prevention with respect to common cancers in the region. To foster research in the area of cancer prevention & control and facilitate the output of quality publications and research grants. Capacity building, training and mentorship Consulting for Preventive Oncology activities

Members and Stakeholders



Team Members:

Mentors:

Dr Sharath K Rao, Dean KMC, Manipal Dr Sathish Rao KB, Director Research, MAHE, Manipal

Members:

Dr Chiranjay Mukhopadhyay, Director, MIV

Dr Naveen Salins, Coordinator, MCCCC

Dr Asha Kamath, Deputy Director, PSPH

Dr Ranjitha S Shetty, Associate Professor, Community Medicine, KMC, Manipal

Dr Kanthilatha Pai, Professor, Department of Pathology, KMC, Manipal

Dr Shyamala G, Professor, Department of OBGyn, KH, Manipal

Dr Monica Solomon, Professor, Department of Oral Pathology, MCODS, Manipal

Dr Stanley Mathew, Professor, Surgery, KH, Manipal

Dr Mahadev Rao, Professor & HOD, Pharmacy Practice, MCOPS

Key Stakeholders:

- Departments of Community Medicine & Pathology, KMC, Manipal
- Manipal Centre for Comprehensive Cancer Care, KH, Manipal
- Departments of Surgery & OBGyn , KH, Manipal
- Manipal College of Dental Sciences, Manipal
- School of Information Sciences, Manipal
- Centre for Indigenous population
- Transdisciplinary centre for qualitative methods
- Markey Cancer Centre, University of Kentucky
- Institute of Applied health sciences, University of Aberdeen
- RUHSA CMC, Vellore
- Kerala cancer care
- District health and family welfare Udupi district
- Indian Cancer Society
- Population of Udupi District

Planned Activities



Milestone	Review Period	Planned Activity	Action Taken
Phase 1	1 – 12 months (Dec 2015 – Nov 2016)	Primary & secondary prevention activities	Awareness Camps covering Udupi Taluk Population Screening in Udupi Taluk
Phase 2	13 – 24 months (Dec 2016 – Nov 2017)	 Primary & secondary prevention activities International & National collaborations Collaborative Conferences / Symposia Student projects Enrol PhD candidates / Procure research grants 	Awareness Camps & Population Screening extended Markey Cancer Centre, UoK Symposium - 1 Student projects - 3 PhD scholar – 1 / Grant – 1
Phase 3	25 –36 months (Dec 2017 – Nov 2018)	 Primary & secondary prevention activities Training for home based palliative care International & National collaborations Collaborative Conferences / Symposia Student projects Enrol PhD candidates / Procure research grants 	Awareness Camps & Population Screening extended Personnel trained in home based palliative care in collaboration with the department of Palliative medicine University of Aberdeen Symposium – 1 / Workshop - 1 Student projects - 2 PhD scholar – 1 / Grant – 1
Phase 4 & 5	37 – 65 months (Dec 2018 – May 2021)	Primary & secondary prevention activities International & National collaborations Collaborative Conferences / Symposia Enrol PhD candidates / Procure research grants	Awareness Camps & Population Screening extended to the District University of Chicago / Kerala Cancer Care / Indian Cancer Society Symposium – 2 PhD scholar – 2 / Grant – 1 In the process of Establishing a cancer screening registry & a cancer cohort

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	In the final stages of the process to initiate certificate programmes in Cancer epidemiology & Preventive Oncology	Initiation of the course & attracting participants
Workshops/ Conference	Conducted the Cancer Collective 2020 , a symposium to commemorate the world cancer day on 29.2.2020 Cancer collective 2021 was an online webinar conducted on 28.2.2021	Good number of delegates across disciplines Planned a collaborative research project Launched a dedicated website for CCO
Research Grants	SERB CRG / POWER & DBT	Not successful
Applied	IC- IMPACTS, Canada	Successful
Research Publications	5	Q1, Q2 and Q4 journal publication
Collaborations	 Rural Unit for Health & Social Affairs (RUHSA), CMC, Vellore Kerala Cancer Care, Cochin, Kerala, India Markey Cancer Center, University of Kentucky Institute of Applied Health Sciences, University of Aberdeen UE Life sciences, Mumbai Indian Cancer Society, Mumbai 	Collaborative projects, summits and initiate new programmes
Consultancy/ Revenue	From Indian Cancer Society (12,000 per screening activity + consumables + partial costs to deserving patient treatment costs)	Self sustaining and able to recruit students and interested faculty for short term projects / PhD / Post Doc programmes

Final Review



Target	Results	Review
Phase 1		
Phase 2		
Phase 3		
Phase 4		

Additional Information

DOI:10.31557/APJCP.2020.21.9.2569 Opportunities and Barriers to Breast-Cancer Screening

RESEARCH ARTICLE

Editorial Process: Submission:11/12/2019 Acceptance:09/14/2020

Opportunities and Barriers to Breast Cancer Screening in a Rural Community in Coastal Karnataka, India: A Qualitative Analysis

Thejas R Kathrikolly¹, Ranjitha S Shettv¹. Suma Nair^{1,2*}

Abstract Background: Breast cancer is reported to be to incidence ratio. Late presentation, driven by 1 of the stated reasons for this. Given this context, rural women towards the disease and factors th

Methods: Forty-four rural women aged 20-60

Focus Group Discussions (FGDs) that were cor

breast cancer screening. Participants were identi

RESEARCH ARTICLE Editorial Process: Submission: 10/03/2020 Acceptance: 12/23/2020

Increasing Engagement for Breast Cancer Screening and Treatment: The "ICANTREAT" Community of Expertise Initiative

Thejas R Kathrikolly¹, Suma Nair^{1,2,*}, Amudha S Poobalan³, Ranjitha S Shetty^{1,4}, Sheela Tripathee³, Sara J Mac Lennan³

Abstract

Background: Incidence of breast cancer and associated mortality are on the rise globally. Breast cancer incidence in India is on the rise and also accounts for a staggering 30% mortality rate among women. Health illiteracy, socio-economic and cultural barriers in addition to lack of an organized nationwide screening and prevention programme contribute to poor patient outcomes. Thus, it is imperative to strengthen the existing screening and treatment facilities to address the increasing cancer burden. In this regard, we conducted a workshop to investigate the scope of a multi- stakeholder engagement in breast cancer screening and treatment. Methods: A stakeholder workshop district in South India with

 Received: 14 August 2019
 Revised: 12 November 2019
 Accepted: 29 December 2019

 DOI: 10.1002/pon.5326
 DOI: 10.1002/pon.5326
 DOI: 10.1002/pon.5326

DOI: 10.1002/pon.5326

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ICANTREAT" Community of Expertise

programme officers, public

Exploring perceptions and practices of cancer care among caregivers and care recipients of breast cancer in India

Shradha S. Parsekar¹ | Ajay Bailey^{2,3} | Binu V. S.⁴ | Suma Nair¹

¹Department of Community Medicine, Kasturba Medical College, Manipal Academy of Higher Education (MAHE), Manipal, India ³International Development Studies, Department of Human Geography and Spatial Planning, Faculty of Geoxiences, Utrecht University, Utrecht, The Netherlands ³Transdisciplinary Contes for Qualitative Methods, Prasama School of Public Health, MAHE, Manipä, India ⁵Department of Biostatistics, Dr M.V. Govindawamy Centre, National Institute of Mertal Health and Neuro Sciences, Bengalaru, India

Abstract Objective: Cancer care is physically and psychologically challenging for both care recipients and caregivers. Caregiving in cancer is an area that needs urgent attention in India. Much of caregiving literature in India is limited to mental illnesses. This study thus examines the perceptions and practices of psychological caregiving among caregivers and care recipients of breast cancer in India.

Methods: Participants were interviewed with the aid of a semistructured qualitative interview guide. Participants included 39 caregivers and 35 care recipients in different breast cancer stages. Interviews were transcribed, translated to English, and coded, and themes were derived for further analysis. Informed consent from participants and ethical clearance and permission from a tertiary hospital were obtained



Ongoing Projects

- Smart app-based rapid multiplex screening of sexually transmitted infections (STI) in at risk populations at the point-of-care: A demonstration study in India [IC-IMPACTS, UBC, Canada]
- Non Invasive Strategy for Early Detection of Clinically Relevant Breast Lesions in Low Resource Settings [UE Life sciences]
- Cancer screening initiative for the rural population of coastal Karnataka [Shamdasani foundation Cancer Care Endowment]

Completed Projects

- Development of ECO (Easy Cervico Optimizer) a novel device to facilitate cervix cancer screening in the community [MGH - CAMTech India Innovation awards program]
- Prevalence of oral premalignant lesions, its risk factors and stage of change in tobacco use behaviour among the adult population in Udupi taluk of coastal Karnataka.
- Assessing the utility of existing risk models in estimating breast cancer risk among Indian women in coastal Karnataka [ICMR – STS]
- Validation of autoantibodies and their combined role with clinical, anthropometric and behavioral factors in predicting Breast Cancer risk in Indian Women [DST]
- Informal care givers of women with breast cancer and their burden of care and quality of life (BoC-QoL): A Mixed Method Study in the Indian context [Qualitative Research Group, Netherlands]
- Development and Validation of a comprehensive Cancer risk assessment tool for an age cohort in a coastal region of Udupi taluk, Karnataka [ICMR MD thesis award]

Additional Information

29-02-2020



Guests of Honour



Inaugural address Dr Sharath K Rao Dean Kasturba Medical College, Manipal, MAHE

Ms Pheroza Bilimoria Founder Trustee Jimmy's Bilimoria Foundation

Ms Harmala Gupta Founder President CanSupport-India

ASTURBA HOSPITAL

to hospital of KMC Mangal, a unit of BAHE.





Distinguished speakers

Dr Seema Rao Consultant Dept. of Palliative Medicine and Supportive Care Kasturba Medical College and Hospital, Manipal



Dr Muralidhar Kulkarni Associate Professor Dept. of Community Medicine Kasturba Medical College, Manipal





Organised by Kasturba Medical College & Kasturba Hospital, Manipal, Centre for Community Oncology, Manipal Comprehensive Cancer Care Centre (MCCC) and Dept. of Community Medicine, KMC, Manipal



Dr Naveen Salins ofessor & Head - Dept. of Palliative Medicine and Supportive Care Coordinator - MCCC asturba Medical College, Manipai



Kasturba Medical College, Manipal









Thejas Kathrikolly Javasree Ramachandran Dr Shradha Parsekar Research scholars, Dept. of Community Medicine, Kasturba Medical College, Manipal

Website: ccomahe.com Email: cco.mu@manipal.edu









Name of the Centre: Center for Poison Information

Coordinator: Dr. Vinutha R Bhat

Evaluation Period: Phase I, Phase II, Phase III, Phase IV

Centre Overview



Centre	
Approval Date	01/12/2019
Coordinator	Dr. Vinutha R Bhat
Inception Date	01/12/2019
Term	2 Years and extended up to another 2 years
Reporting to	The Dean
Statement	
Vision	 To become a WHO accredited centre in Coastal Karnataka to provide comprehensive medical care of poisoning cases.
Mission	 To increase collaborations/grants/research outputs. To improve the infrastructure with few modern equipment.
Objectives	 Create basic awareness about hazards of pesticides among farmers/public & regular screening of farmers. Rapid resolution of all poison/substance abuse cases Provide info to public/doctors/law enforcing agency regarding pesticides/substance of abuse To attract good quality research publications / PhDs /grants Encourage research collaborations/student exchange programs In collaboration with KMCH participate in antidote procurement and storage facility – to support WHO initiative.

Members and Stakeholders



Team Members:

Key Stakeholders Involved

Dr. Vinutha R Bhat – Coordinator

Dr. Shankar M Bakkannavar – Co-Coordinator

• Clinicians & private practitioners

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1 – 6 months	To conduct a webinar with the University of Kentucky. To organize a screening program for farmers in a village near Tumkur.	Organized
Phase 2	7 – 12 months	To conduct a workshop/CME for post graduate students and interested faculty on emphasizing the importance & functioning of Center for Poison Information.	Organized
Phase 3	13 – 18 months	Hands-on training for postgraduate students on Analytical Forensic Science.	Organized
Phase 4	19 – 24 months	Initiated a certificate course from our center in collaboration with Center of Clinical Forensics with a credit-based system. Initiated a Tox Board in collaboration with Department of Emergency Medicine, Paediatrics, Neurology, Medicine and Forensic Science.	To be organized

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course		
Workshops/ Conference	 A webinar was organized on 3.3.2020 from University of Kentucky regarding Biology and Therapy of Cancer. A webinar was conducted on 28/12/2020 on the Topic Combining microextraction with thin layer chromatography- image analysis for drugs and poisons: Present status and foreseeable future in analytical Toxicology. 	 Many of the postgraduates have shown interest to join for internship and to pursue in the PhD program Dr. Rajeev Jain Senior scientist, CFSL Chandigarh highlighted newer techniques which we adopted. 60 participants.
Research Grants Applied	 FIST level 1 grant was applied for rupees 1 crore on the title "GCMS for analyzing the blood level of poison in acute poisoning cases in Tertiary care hospital". FIST Level 1 grant was applied for rupees 2 crores on the title "Estimation of Unintentional Poisoning Cases and their impact on the health Status of the Community at Manipal Poison Detection Center" 	Applied in May 2020 Applied in September 2021
Research Publications	 Correlation of oxidative stress and antioxidant status with cholinesterase in organophosphorous poisioning cases. Current Trends in Toxicology Vol 17,2021 Devil's trumpet poisoning: A case report. IJFCM 2021. 	
Collaborations	Estimation of Pesticides levels in the blood and Urine samples of Farmers of 8 villages of Karnataka in collaboration with KAPC	Ongoing
Consultancy/	Rupees Five Lakh per year	

Final Review



Target	Results	Review
Phase 1	50 postgraduates and research scholars have actively participated in the webinar.	1
Phase 2	60 participants have attended the Webinar on "Combining microextraction with thin layer chromatography- image analysis for drugs and poisons: Present status and foreseeable future in analytical Toxicology".	1
Phase 3	Hands-on training for postgraduate students of Forensic science.	4
Phase 4	Initiated a certificate course from our center in collaboration with Center of Clinical Forensics with a credit-based system. Initiated a Tox Board in collaboration with Department of Emergency Medicine, Paediatrics, Neurology, Medicine and Forensic Science.	2

Additional Information





Plaque Unveiling Ceremony of Center for Poison Information







Webinar conducted by Center for Poison InformationAwareness program conducted to the farmers from our centerfrom the faculty of University of Kentucky



Name of the Centre: Center for Emerging and Tropical Diseases (CETD)

Coordinator:

Dr. Chiranjay Mukhopadhyay

Associate Dean and Professor,

Dr. TMA Pai Endowment Chair on 'Emerging Bacterial Pathogens'

Department of Microbiology,

Kasturba Medical College, Manipal,

Manipal Academy of Higher Education, Manipal

Evaluation Period: Phase IV (4th Year)

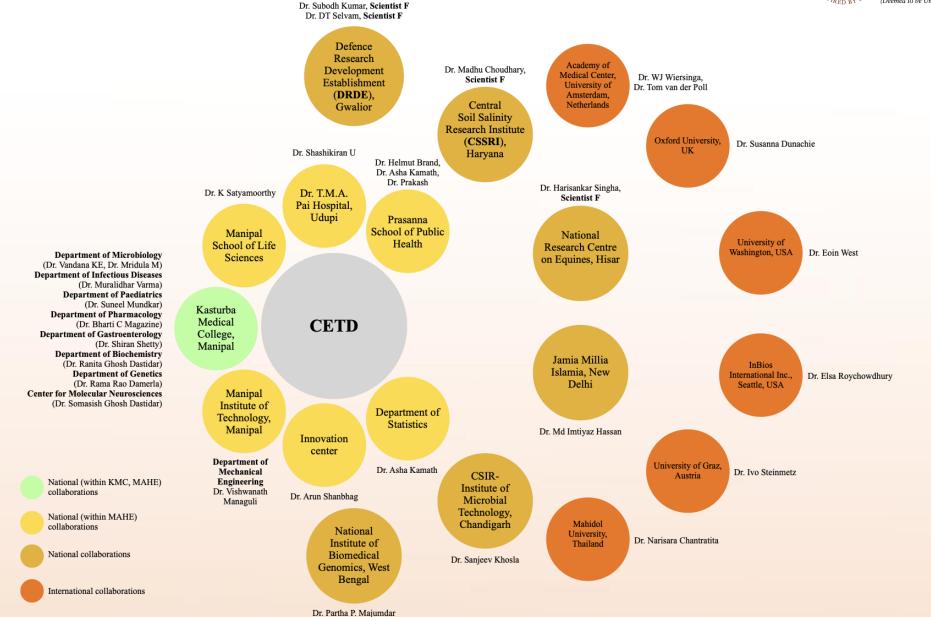
Centre Overview



Centre	
Approval Date	01/09/2017
Coordinator	Dr. Chiranjay Mukhopadhyay
Inception Date	01/09/2017
Term	04 Years
Reporting to	Pro-Vice Chancellor, MAHE, Manipal
Statement	
Vision	Cross-cutting research in the field of Emerging and Tropical diseases to guide public policy
Mission	 Act as a <i>center of reference</i> in the country for selected emerging and tropical diseases Improve surveillance and awareness among the population regarding selected emerging and tropical diseases
Objectives	 To be the unified voice on common issues regarding emerging, re-emerging and neglected tropical diseases to achieve our goals To enhance our community of practice through member engagement, learning and sharing knowledge To prepare a Comprehensive framework for disease management and prevention

Members and collaborations





Key stakeholders



- 1. University of Amsterdam's Faculty of Medicine, Netherlands (AMC-UvA)
- 2. Institute of Hygiene, Microbiology and Environmental Medicine (IHME), the Medical University Graz, Austria
- 3. Mahidol University, Bangkok, Thailand
- 4. Department of Immunology and Infection, London School of Hygiene & Tropical Medicine
- 5. University of Oxford, UK
- 6. Fredrich Loffler Institute, Germany
- 7. Doherty Applied Microbial Genomics, Department of Microbiology and Immunology, University of Melbourne, Australia
- 8. InBios International Inc., Seattle, USA
- 9. Biomerieux, France
- 10. Central Soil Salinity Research Institute Karnal, Haryana, (CSSRI) India
- 11. Defence Research & Development Establishment (DRDE), Gwalior, India
- 12. National Research Center on Equines Haryana (NRCE), India
- 13. Vitas Pharma, Hyderabad, India

*highlighted text: International entities

Planned activities (contd.)



Received	13 – 18 months	 To start Community AMSP program To sign MoUs with eminent Universities To apply for international collaborative grant awards To apply for national prestigious grants To enrol PhD students 	 Started 'Antibiotic Guardianship and Education' (AGE) Program Signed MoU with University of Oxford and Academic Medical Centre, University of Amsterdam Applied for Wellcome DBT India Alliance Senior Clinical Research Fellowship Grant in May Applied for SERB grant in June 3 PhD students enrolled in July session
Phase 4	19 – 24 months	 To apply for BIRAC grant – COVID Innovation (Academia – Industry Partnership) To apply for RO Grant (NIH), in Collaboration with University of Washington To apply for community AMSP Include RLS Fellow for Melioidosis Research To apply for student's research project grants 	 Initiate collaboration with Philips, Chennai IIT, Planystech for CMON COVID Kiosk Project Start Up – Biobreath Health Pvt. Ltd. Neuromelioidosis Project proposal – Shortlisted by ICMR Received ICMR-Pfizer Grant on AMSP Received ICMR grant on Melioidosis – Gut Microbiome Received VALIDATE Grant (1 out of 8 in the world) Applied for 3 more National grants and 2 International Grants (including 1 NIH grant) Applied for 4 Royal Society of Tropical Medicine and Hygiene (RSTMH) Grant by PhD students Applied for SERB-CORE grant for Melioidosis Research by PDF

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Planning to start a Certificate Course on Emerging and Tropical Infectious Diseases (1 year)	Draft in process
Workshops/ Conference	 Invited as Speaker in CIDSCON, HISICON, MICROCON and ASEAN conferences Attended CIDSCON, MICROCON, WMC, EMC, SAMC as Invited Speaker Holding IAMM PG Assembly in Manipal 	Planned for collaborations with other South Asian countries regarding AUF study, MARS-INDIA project with AMC-UvA and study on ONE HEALTH ZOONOSIS program with Fredrich Loffler Institute, Germany and University of Sydney, Australia
Research Grants Applied	 Applied for Melioidosis (ICMR) Study DST – Gut microbiome – Sarcopenia COVID-19 Innovation Grant – Applied Biodesign Project (as lead from KMC) – Applied to DST MARS-India Project on Sepsis (with AMC, Amsterdam) GRAM Project (with Oxford University) OMICS-task force (ICMR) – Proposal on Neuromelioidosis 	 Melioidosis Grant – Received Brucellosis Grant – Sanctioned by DRDE AMR, HAI, VAP, SSI and AMSP (5 Grants) - Sanctioned by ICMR/CDC India/AIIMS MARS-India – Received GRAM Project – In the process Neuromelioidosis Omics proposal – Shortlisted SERB-CORE Grant - waiting for the result Inbios Clinical Study (I,00,000 USD) - waiting to start

Details of the Process and Outcome (contd.)



Research Publications	26 published [PLOS One, PLOS NTD, IJMS, Tropical Doctor, Tropical medicine and international health, Indian Journal of Medical Microbiology, Journal of Global antimicrobial resistance, Review in Tropical Medicine and Infectious Diseases, JMM, The Foot, BMC Medicine]	 Published in Scopus and Web of Science Indexed journals 8 in process BMC Medicine (IF – 9.088)
Additional Collaborations	 AIIMS ICMR Institute of Hygiene, Microbiology and Environmental Medicine (IHME) CDC India University of Melbourne 	
Consultancy/ Revenue	8 Grants received on Emerging and Tropical Diseases till now Expected – 5-6 grants in the next 2 years	Total amount – 7.68 Crores received Expected – another 3-4 Crores in the next 2 years

Final review



Target	Results	Review
Phase 1	Maintaining the objectives timeline Applying for collaborations, grants Publications done, Submitted for more Publications Enhancing network	More PhD programs to start Waiting for Suitable collaborators to respond Waiting for Grant calls
Phase 2	 Planning for Certificate Course in Emerging Tropical Diseases Applying for Collaborations and Funds Planning to conduct training and workshops for Diagnosis and Clinical Management of Melioidosis and other Emerging Tropical Diseases 	Applied for funding Awaiting further grant calls
Phase 3	International Collaboration International and National Grants PhD Scholars with International exchange	Publications and workshops MoUs Projects related to Public Health
Phase 4	One Health Research Open Laboratory Set up Expanded Research on Neglected Tropical Diseases	MoUs International Recognition Reviews and Grants

Additional information – I (funded instruments)



for SSI Developing During Hospital Stay and After Discharge

Equipments Procured	Research Project	Funding Agency	Equipments to be procured	Research Project	Funding Agency
Refrigerator-	Capacity Building		Lyophilizer	Capacity Building and	
Celfrost Upright chillers	and Strengthening of Hospital Infection			Strengthening of Hospital Infection	
Densi check Instrument	Control to Detect and Prevent Antimicropial	•	Ultra Deep Freezer	Control to Detect and Prevent Antimicrobial Resistance in India	ICMR/AIIMS/CDC INDIA
Incubator			Computer	Initiating	
Desktop				Antimicrobial	ICMR
Real Time PCR (Rotor Gene Q)-	Regional Center for Antimicrobial	esistance ICMR Computer		Stewardship activities in hospitals in India.	
Qiagen	Resistance Surveillance Network			Development and Validation of an	
				Electronic Surveillance System	ICMR

Additional information – II (Manpower)



Theme	Project/Thesis Title	Manpower involved
Health care associated	Implementing AMSP in Indian hospitals (ICMR)	1 Research Associate
infection and Infection	Capacity Building and Strengthening of Hospital Infection	1 Senior Research Fellow, 2 Staff Nurse, 2 Lab
Prevention	Control to Detect and Prevent Antimicrobial Resistance in India	Technician
	(CDC/ICMR)	
	SSI (ICMR)	1 Research Nurse
	VAP (ICMR)	1 Research Nurse
	Regional Center for ICMR's AMR surveillance network	1 Lab Technician, 1 Data entry operator
Emerging and Tropical	Brucellosis	1 ICMR Senior Research Fellow (PhD Scholar)
Infectious Diseases	Melioidosis	
	Environmental Melioidosis	1 ICMR Senior Research Fellow (PhD Scholar)
	Melioidosis and Gut Microbiome	1 PhD Scholar
	Melioidosis – Molecular and Advanced Research	1 PDF and 1 Ramalingaswamy fellow
	Melioidosis (VALIDATE, Oxford University)	1 PhD Scholar
	AMR and AMSP	
	Antimicrobial Resistance (AMR) (ICMR)	1 PhD Scholar
	AMSP (ICMR-Pfizer) program	1 Scientist C, 1 Research Nurse
Sepsis	Molecular Diagnosis and risk stratification of sepsis in India	1 PhD Scholar, 1 Research Nurse, 1 Technician
		and 1 data Entry operator
	Sepsis and biomarkers (IMF)	1 PhD Scholar
Total Staff		24

Additional information – III (Achievements)



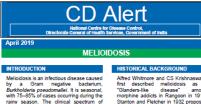
Leader in Melioidosis Research in India and South Asia

- Highest publications in Melioidosis in India
- Established an ICMR Referral Laboratory for melioidosis in India to diagnose the disease and recommend treatment
- Expert Member of Government of India (NCDC, New Delhi) and Parliament **Committee to give opinion on Melioidosis related queries**
- Supervised release of 1st 'CD ALERT' from NCDC, India, on Melioidosis
- Founder Executive member of International Melioidosis Network (IMN)

since 2015







and other diseases like chronic nellitus is the more factor and increases the

Additional information – III (Achievements)



- **EMBO Short-Term Fellowship** from Heidelberg, Germany by Mr. Tushar Shaw (PhD Scholar) to visit University of Graz and work under Dr. Ivo Steinmetz (Director)
- Collaboration with DRDE, Gwalior: Ms. Sudipta Patra (PhD Scholar) stayed for 1 month to perform 2-D Gel Electrophoresis for her PhD thesis work under Dr. DT Selvam
- Foreign Faculty Visit: Dr. W. Joost Wiersinga, Dr. Tom van der Poll from University of Amsterdam for MARS-INDIA Project on SEPSIS
- Collaborations with Menzies School of Health Research, Darwin, Australia; Doherty Applied Microbial Genomics, and The Royal Hospital, Melbourne, Australia for WGS
- Senior Research Fellowship awarded to Mr. Tushar Shaw (PhD Scholar) and Ms. Sudipta Patra (PhD Scholar) from Indian Council of Medical Research, New Delhi.
- Travel Grant for PhD student: Tushar Shaw (PhD Scholar) has visited University of Graz, Austria for a second time for his PhD thesis Work; attended WMC in Cebu, Philippines; SAMC in Sri Lanka

Additional information – IV (International collaborators)

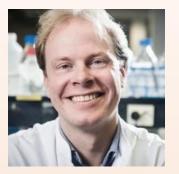




Dr. Tom van der Poll Professor, Internal Medicine, Head of the Center of Experimental and Molecular Medicine and Chair of the Division of Infectious Diseases, University of Amsterdam, Netherlands



Dr. Susanne Dunachie Associate Professor, Honorary Consultant in Infectious Diseases and Medical Microbiology, Clinical Microbiologist, Oxford University, UK



Dr. WJ Joost Professor, Chair in Internal Medicine, specializing in translational infectious diseases, University of Amsterdam, Netherlands



Dr. Ivo Steinmetz Director and Professor of Immunology, Medical University of Graz, Austria



Dr. Narisara Chantratita Associate Professor (Microbiology), Department of molecular biology and immunology, Faculty of Tropical Medicine, Mahidol University, Thailand



Dr. Eoin West Adjunct Professor (Global Health); Professor (Medicine - Pulmonary, Critical Care and Sleep Medicine), University of Washington, Seattle



Dr. Catrin Moore Research Group Leader in the Global Burden of Antimicrobial Resistance, **Oxford GBD**



Dr. David AB Dance Centre for Tropical Medicine and Global Health, University of Oxford, UK; Clinical Microbiologist, LOMWRU, Laos

Additional information – V

(additional funding details: projects under implementation)



S.no.	Title	Cost in Lakh	Duration	Role	Agency
1	ICMR TASK FORCE Project 'MISSION': A Multi-Centric Capacity Building Initiative to Strengthen the Clinical and Laboratory Detection of MelioidoSis in India with special fOcus on the North Eastern States	130385242.00	3 years	PI	ICMR
2	Sepsis-induced stress and Network Analysis on Pathogen Expression of stress-combat genes: the SNAPE study	21,49,848.00	3 years	PI	ICMR
3	Understanding the effect of diabetes mellitus on immunometabolic response to <i>Burkholderia</i> <i>pseudomallei</i> in Indian patients	59,98,125.00	3 years	Co-PI	ICMR
4	Development and evaluation of indirect ELISA using recombinant Omp25 protein of Brucella melitensis for rapid and differential diagnosis of human brucellosis	43,96,476.00	3 years	Co-I	ICMR
5	Understanding the relationship of host gut microbiota and host immune response to patients' outcome in Melioidosis	46,17,900.00	2020-2023	PI	ICMR, India
6	Regional Center for Antimicrobial Resistance Surveillance Network	50,00,000.00	2018-2023	PI	ICMR, India

Additional information – V

(additional funding details: projects under implementation)



S.no.	Title	Cost in Lakh	Duration	Role	Agency
	Molecular diagnosis and risk stratification of sepsis in India (MARS-India)	12,33,409.00	2018-2023	PI	AMC Medical research B V, Netherlands
8	Initiating Antimicrobial Stewardship activities in hospitals in India	12,55,232.00	2018-2023	CO-PI	ICMR, India
	Expansion of antimicrobial stewardship (AMSP) and infection control program (ICP) of ICMR in secondary care hospitals	30,46,930.00	2020-2023	PI	ICMR, India

Additional information – V

(additional funding details: projects completed in the last 5 years)



S.no.	Title	Cost in Lakh	Duration	Role	Agency
1	Assessment of the expression of bacterial proteins and its correlation with the clinical presentations of acute and chronic form of brucellosis"	9,60,000	2 years (2017-2019)	PI	DRDE, DRDO, Gwalior
2	Clinical epidemiology and outcomes of bacterial sepsis among hospitalized patients in a resource limited settings in costal southern India: A prospective observational study	2,00,000	1 year (2016-2017)	PI	Manipal – McGill Centre for Infectious Diseases, MAHE
3	Emerging Bacterial Tropical Diseases, with special focus on melioidosis research	20,00,000	2 years (2015-2017)	PI	Dr. TMA Pai Endowment Chair, MAHE
4	VALIDATE- "Characterising the cellular immunity and metabolic response to Mycobacterium tuberculosis and Burkholderia pseudomallei in Indian patients for vaccine design".	29,75,053.00	2019-2020	PI	Medical Research Council, UK
5	Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India	99,49,080.00	2016-2021	PI	CDC-ICMR
6	Development and Validation of an Electronic Surveillance System for Surgical Site Infections Developing During Hospital Stay and After-Discharge: A Multi-Centric Study	49,00,000.00	2018 - 2021	PI	ICMR, India
7	Antigen Detection Assay for Diagnosis of Melioidosis	88,24,453.00	2019 - 2021	Co-I	InBios International Inc, 562 1st Avenue South, Suite 600, Seattle, WA 98104 USA.



FP

Name of the Centre:

Coordinator: Satish Kumar Adiga Evaluation Period: January to December 2020

Centre for Fertility Preservation



Centre Overview

Centre	
Approval Date	26/11/2015
Coordinator	Satish Kumar Adiga
Inception Date	01/12/2015
Term	02 + 02 + 02 Years
Reporting to	The Dean, KMC
Statement	
Vision	To function as resource and reference centre in the field of "Oncofertility"
Mission	To establish state of the art facility to provide clinical service and research
Objectives	 To provide fertility preservation care to pediatric childhood cancer patients and young adults To serve as a national resource for fertility preservation Knowledge dissemination and training of specialists Facilitate international collaborations Undertake cutting edge research through extramural funding

Members and Stakeholders

Advisors



Pro Vice Chancellor (health Science); Dean, KMC Manipal; Medical Superintendent KH

Consortium members:

- Dr Karthik S Udupa (Medical Oncologist)
- Dr Ananth Pai (Medical Oncologist)
- Dr Naveen Salins (Chair, Tumour board)
- Dr Vasudev Bhat (Paediatric Oncologist)
- Dr Krishna Sharan (Radiation Oncologist)
- Dr Vijay Kumar (Paediatric Surgeon)
- Dr Naveen Kumar (Surgical Oncologist)
- Dr Pratap Kumar (Reproductive Endocrinologist)
- Dr Prashant Adiga (Reproductive Endocrinologist)
- Dr Anjali S Mundkur (Reproductive Endocrinologist)
- Dr Padmaraja Hegde (Andrologist)
- Dr Shubhashree Uppangala (Clinical Embryologist)
- Dr Satish Kumar Adiga (Centre Coordinator)
- Ms Prathima Tholeti (Co-coordinator)

Key Stakeholders Involved

- Clinical departments providing cancer care
- Pediatric/adult cancer patients
- Men needing fertility preservation
- Women needing egg and embryo banking
- Oncofertility consortium, Chicago, USA
- University of Muenster, Germany
- University of Naples, Italy
- ICMR (funding agency)
- SERB (DST)
- Alexander von Humboldt Foundation, Germany

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1 – 6 months	Establish clinical service: optimize technique, ethical approval, start service Explore funding; explore collaboration	Established clinical service for prepubertal testicular tissue cryopreservation, ovarian tissue, oocyte and embryo banking. Funding received, collaboration established
Phase 2	7 – 12 months	To continue clinical service; continue explore funding; Introduce M.Sc. & PhD projects	M.Sc. & PhD Projects initiated (6-8 projects)
Phase 3	13 – 18 months	Expand service to other parts of the country Strengthen research activities	TMH (Mumbai) NIRRH (Mumbai) 5 major projects being undertaken
Phase 4	19 – 24 months	Strengthen networking, knowledge dissemination through conference, workshops International recognition of MSc program	Faculty exchange with UK and USA in the field of Oncofertility Innovative grant (Italy-UK-India) from Merck to develop bioreactor for ovarian tissue cryobanking Patient education and awareness Healthcare provider awareness, national and international platforms

Details of the Process and Outcome in 2020



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	ASSET program (Merck) (INR 5,00,000) ISAR-National Training Program (INR 1,00,000) CARE (Merck Foundation program) (86,00,000)	Revenue approximately INR 1,00,00,000 per year
Research Grants received	SERB-III year (INR 49,00,000) SERB- III (INR 24,00,000) ICMR –2 & 3 year 2 projects (INR 1,00,00,000) Minor industry grants (2,00,000)	Total grant in the field of fertility preservation INR 2,16,00,000
Publications	16 (2020)	14 Q1
Collaborations (New)	NIRRH (Mumbai) University of Maribor, Slovenia University of Naples University of Edinburgh	Joint project, PhD student exchange Joint publications (two) Technology transfer, student exchange grant Joint publication
Consultancy	SDM Dharwad, Aster-MIMS, Kotakkal, Kerala	
Industry partnership	Indira IVF	





- 1. Human CORTIcal tissue in vitro CULTure to obtain mature oocyte using novel bioreactors (CortiCult), University of Naples, Italy (Euro 6050)
- 2. Fertility preservation in cancer affected prepubertal girls: Experimental approaches to address the cryosusceptibility of immature oocytes in relation to the ovarian age (ICMR, INR48,00,000).
- 3. Impact of embryological interventions on functional, genetic and epigenetic integrity of gametes and embryos in ART (ICMR, INR49,00,000)
- 4. Impact of maternal diabetes on pre-implantation embryo development: Non-invasive approach to assess embryo quality using oxygen consumption (SERB, INR 46,50,000)
- 5. Fertility preservation in cancer affected prepubertal boys: an experimental approach using testicular tissue cryopreservation (ICMR, INR 49,00,000).
- 6. Development of human embryo viability biomarker diagnostics for elective embryo transfer to improve pregnancy outcome potential application in ART clinic (IMPRINT Grant) with IISC, Bangalore

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Oncofertility: Knowledge, Attitudes, and Barriers Among Indian Oncologists and Gynecologists

Prathima Tholeti, MSc,¹ Shubhashree Uppangala, PhD,¹ Vasudeva Bhat, MD, DM,² Karthik S. Udupa, MD, DM,³ Vijay Kumar, MD, MCh,⁴ Shobhana Patted, MD,⁵ Pandiyan Natarajan, MD,⁶ Norah Spears, PhD,⁷ Guruprasad Kalthur, PhD,⁸ Teresa K. Woodruff, PhD,⁹ and Satish Kumar Adiga, PhD¹



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CRYOBIOLOG

Germinal stage vitrification is superior to MII stage vitrification in prepubertal mouse oocytes

Akshatha Daddangadi^a, Shubhashree Uppangala^a, Guruprasad Kalthur^a, Riccardo Talevi^b, Satish Kumar Adiga^{a,*}

^a Department of Clinical Embryology, Kasturba Medical College Manipal, Manipal Academy of Higher Education, Manipal, 576 104, India
 ^b Dipartimento di Biologia, Università di Napoli "Federico II", Complesso Universitario di Monte S Angelo, Napoli, Italy



News paper articles



ಡಾ। ಸತೀಶ್ ಕುಮಾರ್ ಅಡಿಗ ಕೊಆರ್ಡಿನೇಟರ್, ಸೆಂಟರ್ ಫಾರ್ ಫರ್ಟಿಲಿಟಿ ಪ್ರಿಸರ್ವೇಶನ್

ಕೆಎಂಸಿ ಆಸ್ಪತ್ರೆ, ಮಣಿಪಾಲ

ಸಂತಾನೋತ್ಪಾದನೆ ಎಂಬುದು ಅನೇಕ ದಂಪತಿಗಳಿಗೆ ಒಂದು ನೈಸರ್ಗಿಕವಾದ ಅನುಭವ, ಪ್ರಕ್ರಿಯೆ. ಆದರೆ ಕೆಲವು ದಂಪತಿಗೆ ಗರ್ಭಧಾರಣೆ ಕಷ್ಟವಾಗಬಹುದು. ಪುರುಷನೊಬ್ಬನ ಸಂತಾನೋತ್ಪಾದನೆಯ ಸಾಮರ್ಥ್ಯವು ಆತನಲ್ಲಿ ಉತ್ಪಾದನೆಯಾಗುವ ವೀರ್ಯದ ಪ್ರಮಾಣ ಮತ್ತು ಗುಣಮಟ್ಟದ ಜತೆಗೆ ನೇರವಾದ ಸಂಬಂಧವನ್ನು ಹೊಂದಿದೆ. ಲೈಂಗಿಕ ಸಂಪರ್ಕದ ಸಂದರ್ಭದಲ್ಲಿ ಹೊರಬೀಳುವ ವೀರ್ಯಾಣುಗಳ ಪ್ರಮಾಣ ಕಡಿಮೆ ಇದ್ದಲ್ಲಿ ಅಥವಾ ಅವುಗಳ ಗುಣಮಟ್ಟ ಕಳಪೆಯಾಗಿದ್ದಲ್ಲಿ ಸಂಗಾತಿ

ಕಷ್ಟಸಾಧ್ಯವಾಗುತ್ತದೆ. ಇದಲ್ಲದೆ, ವೀರ್ಯದ ಡಿಎನ್ಎ ಗುಣಮಟ್ಟವೂ ಕ್ಷಯಿಸುತ್ತದೆ; ಇದರಿಂದಾಗಿ ವಂಶವಾಹಿ ರೂಪಾಂತರಗಳು ಭ್ರೂಣಕ್ಕೆ ವರ್ಗಾವಣೆಯಾಗುವ ಸಾಧ್ಯತೆಗಳು ಹೆಚ್ಚಿದ್ದು, ಶಿಶುವಿನಲ್ಲಿ ಬೆಳವಣಿಗೆಗೆ ಸಂಬಂಧಿಸಿದ ತೊಂದರೆಗಳು ಉಂಟಾಗುತ್ತವೆ. ವೀರ್ಯದ ಕ್ರಯೊಪ್ರಿಸರ್ವೇಶನ್ ಮತ್ತು ಬ್ಯಾಂಕಿಂಗ್ – ಪುರುಷ ಸಂತಾನೋತ್ಪತ್ತಿ ಸಾಮರ್ಥ್ಯವನ್ನು ಕಾಪಿಡುವ ಒಂದು ವಿಧಾನ – ಪಾಶ್ಚಾತ್ಯ ದೇಶಗಳಲ್ಲಿ ವ್ಯಾಪಕವಾಗಿ ಸ್ವೀಕೃತವಾಗುತ್ತಿರುವ ಮತ್ತು ಬೆಂಬಲ ಗಳಿಸುತ್ತಿರುದೆ; ಭಾರತದಲ್ಲಿಯೂ ಇತ್ತೀಚೆಗೆ

ವೀರ್ಯ ಬ್ಯಾಂಕಿಂಗ್

ಪುರುಷ ಪ್ರಜನನ

ಸಾಮರ್ಥ್ಯಕ್ಕೆ ವಿಮೆ

ಚಿಕಿತ್ಸೆಯಿಂದ ಭವಿಷ್ಯದ ಸಂತಾನೋತ್ಪತ್ತಿ ಸಾಮರ್ಥ್ಯದ ಮೇಲೆ ಪ್ರತಿಕೂಲ ಪರಿಣಾಮ ಉಂಟಾಗಬಹುದು. ಹೀಗಾಗಿ ಇಂತಹ ಪುರುಷರು ಕೂಡ ವೀರ್ಯ ಬ್ಯಾಂಕಿಂಗ್ ಮಾಡಿಸಿಕೊಳ್ಳುತ್ತಾರೆ. ಹೀಗೆ ವೀರ್ಯ ಬ್ಯಾಂಕಿಂಗ್ ನ ಕಾರಣಗಳು ಅಸಂಖ್ಯವಾಗಿವೆ. ಆದರೆ ಒಂದಂತೂ ನಿಜ; ಭವಿಷ್ಯದಲ್ಲಿ ಉಂಟಾಗಬಹುದಾದ ತಮ್ಮ ಸಂತಾನೋತ್ಪತ್ತಿ ಸಾಮರ್ಥ್ಯ ನಷ್ಟದಿಂದ ಪಾರಾಗುವ ಅವಕಾಶಗಳ ಬಗ್ಗೆ ಪುರುಷರು ಅರಿವನ್ನು ಹೊಂದಿದ್ದಾರೆ ಮತ್ತು ಅಂತಹ ಅವಕಾಶಗಳಲ್ಲಿ ಸಂತಾನೋತ್ಪತ್ತಿ ಸಾಮರ್ಥ್ಯ ರಕ್ಷಣೆಯ ಉತ್ತಮ ಅವಕಾಶವಾಗಿ ವೀರ್ಯ ಬ್ಯಾಂಕಿಂಗ್ ನಮ್ಮ ಮುಂದಿದೆ.

ವೀರ್ಯ ಬ್ಯಾಂಕಿಂಗ್: ಯಾವಾಗ?

■ ವಿಳಂಬಿತ ತಂದೆತನ: ಶಿಕ್ಷಣ, ಉದ್ಯೋಗ ಮತ್ತು ವೈಯಕ್ತಿಕ ಮಹತ್ವಾಕಾಂಕ್ಷೆ ಹಾಗೂ ಸ್ವಾತಂತ್ರ್ಯದ ಇತರ ಅವಕಾಶಗಳನ್ನು ಸಾಧಿಸಿಕೊಳ್ಳುವುದಕ್ಕಾಗಿ ಸಮಾಜದಲ್ಲಿ ವಿವಾಹ ಮತ್ತು ಸಂತಾನೋತ್ಪತ್ತಿಯನ್ನು ಮುಂದೂಡುವುದು ಸಾಮಾನ್ಯವಾಗಿದೆ. ಈ ಪದ್ದತಿಯು

Collaborating institutes & Centers





















Any other relevant information



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Global Oncofertility Consortium Meeting March 2021

Speakers

Click on images for bios



Francesca E. Duncan, PhD Northwestern University Conference Co-Chair



Lauren Ataman-Millhouse, MA

Northwestern University Access to fertility preservation care in Conference Co-Chair

Satish Kumar Adiga, PhD Kasturba Medical College

India

Nonso Daniels

Report



Antoinette Anazodo, MD, PhD

Future Fertility The Development and Evaluation of a Reproductive Survivorship Patient Reported Outcome Measure

Login



Leslie Appiah, MD

University of Colorado Reproductive Late Effects in Adolescent and Young Adult Survivorship



María Bourlon, MD

Mexico

Instituto Nacional de Ciencias Ekocorp Plc (Eko Hospitals) Médicas y Nutrición Salvador Oncofertility in Nigeria: Situation Zubirán Current status of Oncofertility in



Marie-Madeleine Dolmans MD, PhD

Université Catholique de Louvain OTC and live births





Prathima Tholeti, Co-coordinator, CFP, secured Oncofertility scholarship from Oncofertility Consortium, USA



COVD-19 support

991 RBMO VOLUME 41 ISSUE 6 2020

RBMO

REVIEW

Fertility preservation during the COVID-19 pandemic: mitigating the viral contamination risk to reproductive cells in cryostorage



BIOGRAPHY

Satish K. Adiga is Professor and Head of the ART Laboratory and Centre for Fertility Preservation at Manipal, India. His research interests are fertility preservation, preimplantation biology and non-invasive gamete and embryo selection.

Satish K. Adiga^{1,*}, Prathima Tholeti¹, Shubhashree Uppangala¹, Guruprasad Kalthur¹, Roberto Gualtieri², Riccardo Talevi^{2,*}







Facility:

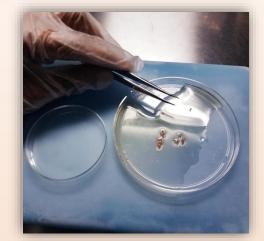




Ovarian tissue manipulation for banking:



Pre pubertal testicular tissue manipulation for banking



Additional information

Proposed activities in 2021-22

- 1. Affiliating CFP with Japanese Society for Fertility Preservation (JSFP) & Asian Society for Fertility preservation
- 2. Academic partnership with St. Marianna University School of Medicine, Japan (student and faculty exchange, research collaboration)
- 3. Indo-Japan Fertility Preservation Conference 2022, Manipal
- 4. Japan-India Fertility preservation workshop, Kawasaki, Japan, 2022





Nao Suzuki MD, PhD



Centre for Molecular Neurosciences

Coordinator: Dr. Dinesh Upadhya Evaluation Period: 3 ½ years

Centre Overview



Centre		Centre for Molecular Neurosciences		
Approval Da	te	01/05/2018		
Coordinator		Dr. Dinesh Upadhya		
Inception Date		19/10/2018		
Term 3 1/2 years		3 1/2 years		
Reporting to		Dean, KMC, Manipal		
Statement				
Vision	Ou	utstanding neuroscience research to help global community for better brain related and mental health.		
Mission	То р	To perform excellent advancement in neuroscience through innovative ideas, ultramodern techniques and collaborative work with resolution.		
Objectives	 Undertaking research activities of regional, national and global importance Evaluating neuroscience problems with multiple perspectives and out of box ideas Undertaking national and international collaborations to accomplish planned tasks Training students to become proficient neuroscientists at the global level Organization of workshops, seminars, conferences and advanced training courses to gain and disseminate the experience 			

Members and Stakeholders



Team Members:

Mentors : Dr. Sharath K Rao

Members :

- 1. Dr. Dinesh Upadhya
- 2. Dr. Somasish Ghosh Dastidar
- 3. Dr. Pavan Agrawal

Total research scholars: 19 **4 CSIR NET qualified, 1 DST INSPIRE** PhD registered candidates: 12 JRFs to register for PhD: 7 Interdepartmental PhD registered: 8

Key Stakeholders Involved

- Department of Biotechnology
- Science and Engineering Research Board
- Department of Science and Technology
- Indian Council of Medical Research

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1 – 6 months	 Setting up laboratories, procuring instruments for establishing functional workspace. Writing grant proposals for developing the Centre 	Laboratory setup for functional workspace completed, Few equipments have been procured.
Phase 2	7 – 12 months	 Establishing national and international collaborations. Applying for national and international funding 	Developed more than 8 international collaborations INR 21 crore grants applied
Phase 3	13 – 18 months	 Increasing publications from the Centre Conducting workshops and seminars 	24 research articles were already published. Hands-on training workshop conducted: 1 Seminars conducted: 8.
Phase 4	19 – 24 months	Initiating advanced coursesTargeting high impact publications	PhD training at CMN is gaining tremendous interest More than 10 impact factor publications: 5 More than 5 impact factor publications: 8

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Not started	
Workshops/ Conference	 Hands on training in association with Aimil Bangalore 8 seminars 	 13 members (faculty+ PhD students) trained for Nanosight LM10 In association with KMC Research Cell
Research Grants Applied	21.44 crore	453 crore
Research Publications	Total: 24 With international collaborations: 18 With Industry: 1	Q1 - 15 Q2 - 6 Q3-2 Q4-1
Collaborations	Worldwide collaborations initiated	With 8 in US, 1 in UK, 1 in Australia, 1 in Brazil With multiple Indian Institutes
Consultancy/ Revenue	-	



Final Review

Target	Results	Review
Phase 1	Laboratory setup for functional workspace completed	Completed
Phase 2	2 RLS fellows have joined as faculty and centre expanded with a total of 19 research scholars	completed
Phase 3	Out of 24 publications, 18 publications with international collaborations 4.53 crore grants sanctioned 1 patent applied, 2 in application process	Completed
Phase 4	Advanced courses: Integrated PhD program could be planned	Requires MAHE support in the initial phase

Additional Information

Interactions:

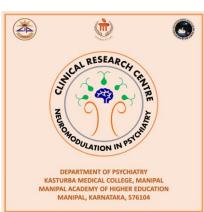
Requirements:

- One laboratory technician
- Request for core funding support









Clinical Research Centre for Neuromodulation in Psychiatry

Coordinator: Dr Samir Kumar Praharaj Evaluation Period: Phase I/Phase II/Phase III/Phase IV

Centre Overview



Centre Clinical Research Centre for Neuromo		Clinical Research Centre for Neuromodulation in Psychiatry		
Approval Date		December 1, 2020		
Coordinator		Dr Samir Kumar Praharaj		
Inception Date		December 1, 2020		
Term First		First		
Reporting to Dean, KMC Manipal		Dean, KMC Manipal		
Statement				
Vision		establish a centre in collaboration with other psychiatric institutes in India to do multi-center studies with inputs from expert consultants involving international researchers neuromodulation		
Mission	combin	esearch focus: a) disease modelling studies in psychiatric disorders using multi-modal data anchored on investigative neuromodulation techniques (TMS derived metrics Imbined with tDCS perturbation studies) with additional assessments using MRI, EEG & several other neurobiological measures, b) discovery of biomarkers predictive of Iferential clinical response to neuromodulatory interventions like ECT, TMS, tDCS through multi-centre studies		
Objectives	 1) The centre will serve as a resource in understanding the neurobiological correlates of pharmaco-resistance in psychiatric diseases, and neurobiological effects of neuromodulation. 2) It will act as a resource centre to disseminate the knowledge and expertise to the professionals who are interested to take up cutting edge research in the area of neuromodulation in psychiatry. 3) To integrate the "big data" related to the previous two objectives for discovery of biomarkers that can predict differential clinical response to NIBS and thereby develop personalized, neuromodulatory interventions to impart "Precision Medicine". 4) This CRC will interact with all stakeholders to facilitate the implementation of these neuromodulatory treatment approaches at different levels of health care delivery through standardized, scalable, pragmatic interventions. 5) This CRC will generate "clinician-scientists" in this area and conduct a regional/national level virtual training program to enhance the practice standards of neuromodulatory interventions in India. 6) After the completion of the research projects (mentioned above), the services of the centre (tDCS, rTMS etc.) can be offered to select patient populations with appropriate indications, who might benefit from these treatment modalities. 			

Members and Stakeholders

MANIPAL ACADEMY of HIGHER EDUCATION (Deemed to be University under Section 3 of the UGC Act, 1956)

Team Members:

Coordinator: Dr Samir K. Praharaj

Clinical Collaborators: Dr Sonia Shenoy, Dr. Abhiram PN, Dr Kirtana M Pai, Dr. Prakashini K, Dr Rajagopal KV

Core staff: Dr Ashok J, Abhishikta Naik, Vidyashree MS

External Collaborators: Dr G. Venkatasubramanian, Dr Jagadisha Thirthalli, Dr Urvakhsh M Mehta, Dr Nishant Goyal, Dr Umesh S

International Advisory Committee: Dr. Michael Nitsche, Dr. Zafiris J. Daskalakis, Dr. Sukhwinder Shergill, Dr. Jerome Brunelin, Dr. Declan Mc Loughlin, Dr. Andy Greenshaw, Dr. Russ Greiner **Key Stakeholders Involved**

- Patients with psychiatric disorders
- Healthy volunteers
- Postgraduate students
- Faculty

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	Dec 2020 to May 2021	Establishment of centre Purchase of equipment JRF recruitment and training	Done (there was delay in procurement of equipment because of covid)
Phase 2	June 2021 to Nov 2021	CRTP fellow recruitment Interrater reliability exercises Testing protocols	Done
Phase 3	Dec 2021 to May 2022	Harmonization of protocols Screening of subjects Pilot study	Ongoing
Phase 4			

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Higher training	3 core group members have joined PhD
Workshops/ Conference	Training in NIMHANS	All members underwent 1 week of training
Research Grants Applied	Already secured grant	DBT India Alliance funded the project
Research Publications	Several papers are being written	3 papers and 1 book chapter published 1 paper submitted, 4 protocol papers in process
Collaborations	With 2 premier institutes International	NIMHANS, Bengaluru and CIP, Ranchi Several institutes in advisory board
Consultancy/ Revenue	-	-



Final Review

Target	Results	Review	
Phase 1	Center established JRFs recuited		
Phase 2	rTMS, ECT machines procured CRTP fellow recruited Training of JRFs and CRTP fellow		
Phase 3	Harmonization of protocols Pilot study		
Phase 4			



Photographs





Publication list:

- 1. Venkatasubramanian G, Mehta UM, Goyal N, Praharaj SK, Sreekantiah U, Muralidharan K, Thirthalli J. Clinical research centre for neuromodulation in psychiatry: A multi-centre initiative to advance interventional psychiatry in India. Indian J Psychiatry 2021; 63(5): 503-505. doi: 10.4103/indianjpsychiatry.indianjpsychiatry_1180_20
- 2. Deshmukh A, Praharaj SK, Rai S, Kamath A, Upadhya D. Prefrontal Cortex Transcranial direct current stimulation Treatment in Alcohol dependence syndrome (PreCoTTA): Study protocol for a double-blind randomized sham-controlled trial. Rev Recent Clin Trials 2021; 16(4): 409-20. doi: 10.2174/1574887116666210806091448
- Purohith AN, Chatorikar SA, Praharaj SK, Bhandary RP, Sharma PS. Efficacy and safety of maintenance electroconvulsive therapy (M-ECT) in treatment-resistant schizophrenia: a case series. Asian J Psychiatry 2022;73:103132. doi: 10.1016/j.ajp.2022.103132
- 4. Purohith AN, Vaidyanathan S, Udupa ST, Munoli RN, Agarwal S, Prabhu MA, Praharaj SK. Electroconvulsive therapy in patients with cardiac implantable electronic devices: a case report and systematic review of published cases. J ECT. 2022 Apr 26. doi: 10.1097/YCT.00000000000851
- Praharaj SK, Shenoy S, Abhiram PN. Role of somatic treatment in bipolar disorder. In: Menon V, editor. Indian Psychiatric Update: Bipolar Disorders. Indian Psychiatric Society South Zonal Branch; 2021, Volume 4, pp 205-18. ISBN: 9789355260789.



Grants:

DBT/Wellcome Trust India Alliance (IA/CRC/19/1/610005) Grant start date: Oct 1, 2020

Grant amount: Rs 9.99 crore for CRC (Rs 1.7 Crore for KMC, Manipal) + Rs 5 crore for CRTP fellowship (Rs 1 crore for KMC, Manipal for 2 CRTP fellows)

MAHE: UTN MAHE/ RG0119156

Collaborating institutes & Centers

Collaboration between NIMHANS Bengaluru, CIP Ranchi, KMC Manipal

International centers: Liebniz Research Center, Dortmund, Germany; CAMH, Toronto, Canada; Institute of Psychiatry, King's College, London, UK; Centre Hospitalier le vinatier, Lyon, France; Trinity College, Dublin, Ireland; University of Alberta, Edmonton, Canada



Centre for Indigenous Population

Coordinator: Dr Ranjitha S Shetty Associate Professor Dept. of Community Medicine KMC, Manipal, MAHE Evaluation Period: Phase IV



Centre Overview

Centre	
Approval Date	28/04/2018
Coordinator	Dr Ranjitha S Shetty
Inception Date	01/05/2018
Term	02 Years initially and extended for two more years from May 01,2020
Reporting to	HOD, Community Medicine, KMC, Manipal
Statement	
Vision	To enhance the overall health and well-being of indigenous population
Mission	To encourage and empower indigenous population to attain better quality of life
Objectives	 Need assessment of the community to identify challenges with regards to health and well being Conseits building through torgeted intersections
	2. Capacity building through targeted interventions
	 Identify and document traditions and best practices of this population with a view to preserving their customary culture

Members and Stakeholders



Team Members:

- Dr Ashwini Kumar
- Dr Sanjay M Pattanshetty
- Dr Sneha D Mallya
- Dr Ramprasad VP
- Dr Lena Ashok
- Dr Suma Nair

Key Stakeholders Involved

- Deputy Commissioner, Udupi
- District Health Officer, Udupi
- ITDP Office, Udupi
- Centre for Community Oncology, PSPH, MAHE
- Samagra Grameena Ashram, NGO
- Dr A V Baliga Hospital, Doddangudde, Udupi
- Tribal Community Leaders

Planned Activities



Milestones	Review Period	Planned Activity		Action Taken
Phase 1	1–12 months	1. Stakeholders' meeting organized by the Centre (19 th Sep 2018)	•	Assessment of socio-demographic and health status of Koraga community
Phase 2	12-18 months	Assessment of health and general needs of indigenous population	•	Organize health camps at regular intervals Carry out community based surveys
Phase 3	19 – 24 months	Planning detailed research projects focussing on indigenous populations of Udupi district Initiating a detailed research project among tribal community	•	A project proposal was submitted for funding to ICMR in January 2020
Phase IV	25-48 months	Carrying out the research project – completion of Objective 1	•	Research grant was utilized to carry out the study among PVTGs –Objective 1 completed
		Preparing a project report from the community based survey carried out in Phase II	•	A manuscript has been submitted to IJMR for the special edition on Tribal Health Research

Details of the Process and Outcome (Phase IV)



Key Activities	Details of the Process	Measurable Outcome	
Certificate Course /Workshops/ Conference -Nil			
Research Grants Received	 1. Grant from ICMR (2021-23) Title of the project: Effectiveness of Healthcare Governance Model on the utilization of health care services among Particularly Vulnerable Tribal Group (PVTG) in Udupi district: A Cluster Randomized Controlled Trial; PhD Research study One research assistant has been appointed 	 Perception of the PVTG towards specific aspects of health, health care services and its utilization. Acceptance of health care services and improvement in its utilization 	
	2. Seed Grant from MAHE (Oct 2021 –Sep 2023) Title of the project: Nutritional status and its Determinant among Under-Five Children of a Particularly Vulnerable Tribal Group in Udupi District	 Malnutrition among PVTG under-five children Interventions to improve their nutritional status 	
Collaborations	District level stakeholders, Institutions of MAHE, NGO, Tribal community leaders, local panchayat	Health status assessmentTribal Community surveysCapacity building	
	ation Ghosh S, Pattanshetty SM, Mallya SD, Pandey D, Gud		

K, Shetty RS. Cervical cytology and associated factors among tribal women of Karnataka, India. PLos One 2021; 16(3):

e0248963. https://doi.org/10.1371/journal.pone.0248963

Final Review



Target	Results	Review
Phase 1 (2018)	Collaborations with relevant stakeholdersDetermining general & health needs of a PVTG	Reviewed during centre review presentation in 2018
Phase 2 (2019)	 Collaborations with relevant stakeholders One research publication from tribal health study One PhD scholar enrolled Received one travel grant from ICMR for presenting the ongoing tribal research work in a scientific meet organized by ICMR 	Reviewed during centre review presentation in 2019
Phase 3 (2020)	 One research publication from tribal health study Initiated a detailed research study & proposal submitted to ICMR for funding 	Reviewed during centre review presentation in June 2021
Phase 4 (2021)	 One research publication from tribal health study Received a research grant from ICMR – Two year grant Received a seed grant from MAHE –Two year grant Part of a ICMR funded study conducted among PVTG adolescents One manuscript submitted to IJMR special issue on THR 	Reviewed during centre review presentation in April 2022

ICMR Tribal Project –Data collection in the field by the investigator







Name of the Centre: Centre for Clinical and Innovative Forensics

Coordinator: Dr Vinod C Nayak, KMC, Manipal



Centre Overview

Centre	Centre for Clinical Forensics
Approval Date	January 25 , 2018
Coordinator	Dr.Vinod C Nayak
Inception Date	February 1, 2018
Term	2 years
Reporting to	Dean – Kasturba Medical College, Manipal
Statement	
Vision	To become a Center of distinction in the field of Clinical Forensics aiming to provide quality training to all the stake holders
Mission	To promote research, stake holder training, and consultation to law enforcement agencies
Objectives	 To Develop a strong network of trained stake holders in the area of clinical forensics To Identify and explore emerging research issues in the field of clinical forensics and provide focus for such funded research To facilitate knowledge dissemination among stake holders, practitioners, educators and students

Members and Stakeholders



Team Members:

• Faculty and Staff of the Department of Forensic Medicine **Key Stakeholders Involved:**

- Students
- Clinicians
- Nursing Staff
- Law enforcement agencies : Police and Judiciary



1. Stakeholder Engagement

- 1. Workshop on Documentation in MLC cases
- 2. Workshop on Injury Identification
- 3. Documentation of Identification Marks
- 4. Awareness session on Nursing negligence
- 5. Awareness session on MLC identification for EMD
- 6. Awareness session on Medico Legal issues for T M A Pai hospital
- 7. Identity establishment for Interns
- 8. Reporting Injuries : Session for EMD interns
- 9. Documentation workshop for Casualty Interns
- 10. Medico Legal Awareness Session for Surgery Department



Stakeholder Engagement

- 11. Workshop on Evidentiary material collection for nurses of KH
- 12. Documentation of ID Marks for EMD interns
- 13. Injury documentation for Orthopedics Department
- 14. MLC Handing for critical care department
- 15. ID documentation session for EMD interns
- 16. Injury documentation for Casualty and Trauma nurses
- 17. Evidentiary material collection for Casualty staff
- 18. Workshop on designer drugs for public health officials , law enforcement agencies and narcotics bureau
- 19. Workshop on crime scene photography for Police
- 20. Orientation session on handling of medico-legal cases



Stakeholder Engagement

- 21. Awareness session on MLC documentation for emergency medicine interns
- 22. Medico-legal case series for orthopaedics department
- 23. Medico-legal case series for paediatrics department
- 24. Worksop on golden hour management in road traffic accidents for bus, auto and taxi drivers
- 25. Orientation session on handling of medico-legal cases for clinicians of Kasturba Hospital
- 26. Medico-legal case series
- 27. SPEAR : Hands on training workshop for police, lawyers and medical officers
- 28. Training for police officers on handling drug abuse
- 29. High intensity drug trafficking area investigation workshop at Mangalore airport
- 30. Orientation session for postgraduates for handling medico-legal cases
- 31. Certification in Cause of Death in Covid19 Cases



LIVILO

32. Ready Reckoner of Narcotics & Psychotropic Substances 33. Decoding India's Drug Laws : Nasha Mukth Udupi Abhiyan



NEWS > CITIES > MANGALURU

MANGALURU

'Create awareness to keep youth away from drugs'



Vice-Chancellor of Manipal Academy of Higher Education H. Vinod Bhat releasing a 'Ready Reckoner of Narcotics and Psychotropic Substances' at a function to mark the International Day against Drug Abuse and Illicit Trafficking in Manipal on Wednesday.

MAHE participates in national level anti-drugs campaign TIMES NEWS NETWORK

Manipal: Manipal Academy of Higher Education (MAHE) has been granted Rs 16.8 lakh, for a year-long project titled 'Nasha mukt Udupi abhiyaan' by involving young leaders of MA-HE, which is a part of the nationwide 'Nasha Mukt Bharat Abhiyaan'.

Dr H S Ballal, pro chancellor. MAHE, said the institute has always striven hard to eradicate drug abuse and peddling on its campus. Funded by the ministry of social justice and empowerment, this year-long project is being undertaken by MA-HE's department of student affairs led by Dr Geetha Maiva, to raise awareness and create a secure conducive atmosphere for learning and development for youth.

Dr Geetha Maiya said: "It is an effort to educate our youth and free our society of the perils of substance abuse." The project began with an international webinar on tobacco control to observe World No Tobacco Day 2021, where experts from India, England, Ethiopia, Ghana, and Bangladesh discussed best practices for tobacco control, and provided sugges-

tions to strengthen policies. This was followed by a talk by psychiatrist Dr PV Bhandary, to observe the International Day against Drug Abuse and Illicit Trafficking 2021.

Anti-drugs campaign being

launched by MAHE

MAHE has plans to raise awareness by conducting a series of talks on the issue, and the first talk in the series, on the topic balancing mental health and dealing with substance abuse during the pandemic, was delivered by MA-HE student counsellor Dr Rayan Charls Mathias.

Dr Vinod C Nayak, professor and coordinator, Centre for Clinical and Innovative Forensics, KMC, Manipal, delivered a talk on decoding India's drug laws. MAHE has also organised an e-poster and slogan writing competitions for students across India, to raise awareness on the issue.



Vijay Karnataka Anti Drug Campaign

ひろう VKMAIN, Mangalore edition, 10.10.2020 Edited by :Mahesh Pattaje

ನಶೆಯ ಮೂಲ ಪತ ಹಚ್ಚುವ ಪ್ರಯತ

ಡಗ್ ವಿಚಾರದಲ್ಲಿ ನಮ್ಮದು ಝೀರೋ ಟಾಲರನ್ ನೀತಿ. ಎಎಸಿ ನೇತ್ರತ್ವದಲ್ಲಿ 4.

5 ತಂಡ ರಚಿಸಿ ನಿರಂತರಕಾ

constant

ನಡೆಸಿ ಡಸ್.

ಮಾದಕ ವಸ್ತು

ಗಳ ವಿರುದ್ಧ

ಸಮುರ ಸಾರಿ



ದ್ರೇವೆ. ಮಾ ದಕ ವಸ್ತು ಎಲ್ಲಿಂದ ಪೂರ್ಧಕೆಯಾಗು ತ್ತದೆ ಎಂಬ ಮೂಲ ಪತ್ತ ಹಚ್ಚಿನಶೆ ಮುಕ ಜಿಲ್ಲೆಮಾಡುವುದೇ ನಮ್ಮ ಆದತೆ. ಕಳೆದ 10 ವರ್ಷಗಳಿಗೆ ಹೋ ಲಕ ಮಾಡಿದರೆ ಈ ಬಾರಿ ಅತೀ ಹೆಚ್ಚಿನ ಗಾಂಜಾ ಸೇವನೆ ಪ್ರಕರಣ, ಆರೋಪಿಗಳ ಬಂಧನ, ವಶಪಡಿಸಿ ಕೊಂಡಿರುವ ಗಾಂಜಾ ಪ್ರಮಾಣ ಹಚ್ಚು, ಜಿಲ್ಲೆಯಲ್ಲೇ ಮೊದಲ ಬಾರಿಗೆ ಎಂಡಿಎಂಎ ಮಾತ್ರೆ ಸಹಿತ ಆರೋಟ ಯನ್ನು ಬಂಧಿಸಿದ್ದೇವೆ. ಅಮಲು ಮಾ ತೆಯನು ಮಾಡುಟ ಮಾಡುತ್ತಿದ್ದ ಮ ಡಿಕಲ್ ವೊಂದಕ್ಕೆ ದಾಳಿ ನಡೆಸಿ ಪರವಾ ನಗಿಯನ್ನೇ ರದ್ದು ಮಾಡಲಾಗಿದೆ. ಗಾಂಜಾ ಸೇವನ, ಮಾರಾಟದಲ್ಲಿ ಬಂಧಿತರಾಗಿದ್ದ ವೃಕ್ತಿಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡಿ ಅವರ ಚಲನವಲನದ ಮೇಲೆ ನಿಗಾ ಇಟ್ಟಿದೇವೆ. ಅಂತಾರಾಜ್ಯ ಹಾಗೂ ಜಿಲ್ಲೆಯ 5, 6 ಪಡ್ಡರ್ ಗಳನ್ನು ಗುರುತಿಸಿ ವಿಗಾ ಇಟ್ರದ್ದೇವೆ. ಬೆಳಗ್ಗಿನ ಜಾವ ರಾಜ್ಯ ಹಾಗೂ ಹೊರ ರಾಜ್ಯಗ ಳಂದ ಜಿಲ್ಲೆಗೆ ಆಗಮಿಸುವ ಬಸ್ಗಳ

ತಪಾಸಣೆ ಮಾಡಲಾಗುತ್ತಿದೆ. ಸಾರ್ವ ಜನಿಕರು ಮಾಹಿತಿ ಕೊಟ್ಟರೂ ದಾಳಿ ನಡಸಿ ಕ್ರಮ ಕ್ರಗೂಳುತ್ತೇವೆ. ಪೋಸ್ಟ್ ಕಾರ್ಡ್ ನಲ್ಲೂ ಮಾಹಿತಿ ನೀಡಬ ಹುದು. ಮಾಹಿತಿದಾರರನ್ನು ಗೌಪ್ತ ವಾಗಿ ಇಡಲಾಗುವುದು.

-ಎಸ್. ವಿಷ್ಣುವರ್ಧಸ್, යාතු පොත්රාය

ಮುಲಾಜಿಲದೆ ಹಾಸೆಲ್, ಕಾಲೇಜೆಗೆ ದಾಳಿ



ಡ್ರಗ್ಸ್ ಜಾಲದಲ್ಲಿ ಸಿಲುಕಿದ ವಿದ್ಯಾರ್ಥಿಗಳ ಬಗ್ಗೆ ಕಾಲೇಜು, ವಿವಿಗೆ ಪತ್ರ ಬರೆದರೆ ಎದ್ಯಾರ್ಥಿಗಳಿಗೆ ಎಚ್ಚಲಕೆ, ಡಿಸ್ಟಿಸ್, ಸಸ್ರೆಂಡ್ ಮಾಡುವ, ಹೆತ್ತವರನ್ನು ಕರೆದು ತಿಳಿ ಹೇಳುವ ನೀತಿ ಅನುಸರಿಸುತ್ತಿದ್ದರೆ ಇನ್ನು ಮುಂದೆ ಕಾಲೇಜು, ವಿದ್ಯಾರ್ಥಿಗಳ ಭವಿಷ್ಯದ ನೆಲೆಯಲ್ಲಿ ಯಾವುದೇ ಮುಲಾಜಿಲ್ಲದೆ ಹಾಸ್ಟೆಲ್, ಕಾಲೇಜುಗಳಿಗೆ ದಾಳಿ, ಶೋಧ ಅನಿವಾರ್ಯ. ಕಳೆದೊಂದು ವರ್ಷದಲ್ಲಿ ಎನ್ಡ ಟಎಸ್ ಕಾಯದೆಯಡಿ ಉಡುಪಿ ಜಿಲ್ಲೆಯಲ್ಲಿ ಡ್ರಗ್ಸ್ ವ್ಯವಹಾರದಲ್ಲಿ ಕೊಡಗಿದವರ ವಿರುದ್ಧ 190 ಪ್ರಕರಣ ದಾಖಲಾಗಿದೆ. ಮಾದಕ

ವ್ಯವಹಾರಕ್ಕೆ ಸಂಬಂಧಿಸಿ ಆಂಧ್ರ ಪ್ರದೇಶ ಹೆಬ್ಬಾಗಿಲಾಗಿದ್ದು ದಾಳಿ ನಡೆದರೆ ಹೆಚ್ಚು ಪ್ರಮಾಣದಲ್ಲಿ ಮಾದಕ ಪತ್ತಿ ಸಾಧ್ಯ. ಉಡುಪಿಯಲ್ಲಿ ಮಾದಕ ದಾಸ್ತಾನು ಹೆಚ್ಚಿಲ್ಲ, ಬಳಕೆದಾರರಿದ್ದಾರೆ. ಎಲ್ಎಸ್ಐ, ವಿದೇಶದಿಂದ ಬರುವ ಎಂಡಿಎಂಎ ಮಾತ್ರೆ ಸಹಿತ ರಾಸಾಯನಿಕ ರೂಪದಲ್ಲಿ ಮಾದಕ ವ್ಯವಹಾರ ವಿಸ್ತರಣೆಯಾಗುತ್ತಿದೆ. ಸಿನಿಮಾ, ಮಾಧ್ಯಮದ ಮೂಲಕ ಡ್ರಗ್ಸ್ ಬಳಕೆಯನ್ನು ಗ್ಲ್ಯಾಮರೈಸ್ ಮಾಡಬೇಡಿ. ಸಿಗರೇಟು, ಮಾದಕ ಪ್ರತಿಷ್ಠಿಯ ಸಂಕೇಶವಲ್ಲ. ಕೊರೊನಾ ಲಾಕ್ ಡೌನ್ ವೇಳೆ ನಿಯಂತ್ರಣದಲ್ಲಿದ್ದ ಡ್ರಗ್ಸ್ ನೆಟ್ ವರ್ಕ್ ಪ್ರಸ್ತುತ ಪ್ರೀಝ್ ಆಗಿದ್ದು, ನಿಯಂತ್ರಣದ ಜತೆಗೆ ವಿದ್ಯಾರ್ಥಿ, ಯುವಕರು, ಶಾಲಾ ಕಾಲೇಜುಗಳಲ್ಲಿ ಅರಿವು, ಜಾಗೃತಿ ಹೆಚ್ಚಬೇಕು.

-ಹರಿರಾಮ್ ಶಂಕರ್, ಎಎಸ್ಪಿ, ಕುಂದಾಪರ

ಮಾದಕ ಮುಕ್ತ ಉಡುಪಿ ಜಿಲ್ಲೆ ಗುರಿ ನಗರಗಳಂತೆ ಗ್ರಾಮಾಂತರಕ್ಕೂ ಹರಡುತ್ತಿದೆ ಕರಾಳ ಡ್ರೆಗ್ಸ್ ಜಾಲ ಯುವಜನರಲ್ಲಿ ಅರಿವು ಮೂಡಿಸಲು ಪೊಲೀಸ್, ಮಾಧ್ಯಮಕ್ಕೆ ತಜ್ಞರ ಕರೆ ಕೆ ಹೋಡಿಸುವಂತೆ ಮನವಿ ಮಾಡಿದರು

ಖರೀದಿ ಅಧ್ಯಯನ

ವೂಹಿತಿಯೇ ಸಿಗುತ್ತಿಲ್ಲ. ಆರ್ಐಐ

LOLE BROOME ROCOURT

ವರೆಂಗೆಯಾತಿದೆ.

ಗ್ರಾಮೀಣ ಪ್ರದೇಶಕೂ

ವಿಸರಿಸಿದ ಮಾದಕ

ನಗರದಿಂದ ಗ್ರಾಮೀಗಾ ಪ್ರದೇಶಕೂ

ಮಾದಕ ವ್ಯಸನ, ವ್ಯವಹಾರ

ವಿಸ್ತರಣೆಯಾಗುತ್ತಿದೆ. ಕುಂದಾಪುರದ

ಕಂಡೂರಿನಲ್ಲ 10ರಿಂದ 12 ಮಾದಕ

ಸೇವಸುವವರು, ಒಂದಿಬ್ಬರು

ಪೆಡರ್, ಮೂಡುಗೋಪಾಡಿಯಲಿ

15 ಮಂದಿ ಮಾದಕ ವ್ಯಸನಿಗಗಳು,

ಮೂವರು ಪೆಡ್ಡರ್ಗಳಲ್ಲಾರೆ.

ವಿಕ ಸುದ್ದಿಯೋಕ ಉಡುಪಿ

ಡ್ಗಗ್ ಪೂರೈಸುವ ಪಡ್ಡರ್ ಗಳನ್ನು ಹಡೆಮುರಿ ಕಟ, ಸಮಾಜಕ್ರೆ ಶಾಪವಾದ ಮಾದಕ ವ್ಯಸನ ಜಾಲದಲ್ಲಿ ಸಿಲುಕದಂತೆ ವಿದ್ಯಾರ್ಥಿ. ಯುವಟನತೆಯಲ್ಲಿ ಅಂವು ಮೂಡಿಸಿ ಕಳುಡುತಿಯನ್ ಮಾದಕ ಮುಕ ಜಿಲೆಯಾಗಿ ದೂಹಿಸಬೇಕು.

ಹಿಣ್ಣಂದು ಸನ್ನ ಸಮಾಜದ ಕನಸು ನನಸಿನ ಹಾದಿಯಲ್ಲಿ ಉಡುಪಿ ಜಿಲ್ಲೆಯಲ್ಲಿ ಡಗ್ ವಿಯಂತಣ, ಜನಜಾಗತಿಗಾಗಿ 500F 635 ಮಿಕುಂಡು ತುಕ್ರವಾರ



ಆಯೋಜಿಸಿದ್ದ ವಿಕ ಆಭಿಯಾನ(ವಿಕ ವೆಟನಾರ್) ಉತ್ತಮ ವೇದಿಕೆ ಒದಗಿಸಿತು.

ವಚನಾರ್ drugts

> ನಿಯಂತ್ರಣವ centa, ಅನಿವಾರ್ಯಾತೆಯನ್ನು





ಕುಂದಾವುರ ಎಎಸ್ರಿ ಹರಿರಾಮ್ ಶಂಕ

ರ್, ಕುಂದಾವುರ ಗುರುಕುಲ ಸಮೂಹ

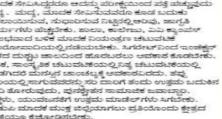
ತಿಕ್ಷಣ ಸಂಸ್ಥೆಯ ಕಾರ್ಯನಿರ್ವಾಹಕ ಟ್ರಿಸ್ಟಿ

ಬಾಂಡ, ಸುಭಾಸ್ ಶೆಟ್ಟಿ, ಮಣಿವಾಲ ಕಸ್ತೂ

ಕಳಿದೆರಡು ವರ್ಷದಲ್ಲಿ 3 ಸಾವಿರಕ್ಕೂ ಅಧಿ ಕ ಪರೀಕ್ರೆನಡೆಸಿದ್ದು, ಗಾಂಜಾ ಬಳಕ ಪ್ರಮಾಣ ಅಧಿಕವಿದ್ದರೆ, ಅನ್ನ ಮಾದಕ ವಸ್ತುಗಳ ಬಳಕಿಯೂ ಪಚ್ಚುತ್ತಿದೆ. ವೈದ್ಯರು ಕೊಟ್ಟಚೇಟ ಆಧಾರದಲ್ಲಿ ಔಷಧವನ್ನು

ಮಾದಕ ರೂಪದಲ್ಲಿ ಬಳಸುವವರಿದ್ದಾರೆ. 2-3 ಕಿಂಗಳ ಹಿಂದೆ ಮಾದಕ ಸೇವಿಸಿದ್ದರರೂ ಅದನ್ನು ಪರೀಕ್ಷೆಯಿಂದ ಪತ್ತೆ ಹಚ್ಚುವುದು ಸಾಧ್ಯ. ಮದ್ದ, ಮಾದಕ ಸೇವಿಸುವವರೂ ಕೂಡ ಬದುಕು ಬದಲಾಯಿಸುವ, ಸುಧಾರಿಸುವ ನಿಟ್ಟನಲ್ಲಿ ಅರಿವು, ಜಾಗೃತಿ ಕಾರ್ಯಗಳು ಹೆಚ್ಚಬೇಕು. ಶಾಲಾ, ಕಾಲೇಜು, ವಿವಿ ಕ್ರಾಂಪಸ್ ಆರಂಭವಾದ ಬಳಿಕ ಮಾದಕ ನಿಯಂತಣ ಚಟುವಟಿಕೆ ಸಮರೋಪಾದಿಯಲ್ಲಿ ನಡೆಯಬೇಕು. ಸಿಗರೇಟ್ ವಿಂದ ಇಂಜಿಕ್ಷನ್ ತನಕದ ದುಶ್ರಟ ಜಾಲದಿಂದ ಹೊರಬರಲು ಅವಕಾಶ ಕೊಡಬೇಕು. ದೈಹಿಕ, ಸಾಂಸ್ಕೃತಿಕ ಚಟುವಟಿಕೆಯಲ್ಲಿ ನಿಷ್ಠ ಚಟುವಟಿಕೆಯಲ್ಲಿ ತೊಡಗಿದರೆ ಮನಸ್ಸನ ಚಾಂಚಲ್ಯಕ್ಕೆ ಅವಕಾಶವಿರದು. ತಪ್ಪು ದಾರಿಯಲ್ಲಿ ಸಾಗುವವರನು ಸರಿ ದಾರಿಗೆ ತಂದು ಉತ್ತಮ ಬದುಕಿನ ಹಾದಿ ತೋರುವುದು, ಪುನಶ್ಚೇತನ ಸಾಮಾಜಿಕ ಜವಾಬ್ದಾರಿ. ಮಕ್ಕಳು, ಯುವಜನತೆಗೆ ಉತ್ತಮ ಮಾಡಲ್ ಗಳು ಸಿಗಬೇಕು. ಉಡುಪಿ ಮಾದಕ ಮುಕ್ತ ಜಿಲ್ಲೆಯಾಗಲು ಪ್ರತಿಯೊಂದು ಕ್ಷೇತ್ರದ ಜನಕೆಯೂ ಕ್ಷೇಕೋಡಿಸಬೇಕು.

ಕಲ್ ಕಾಲೇಜಿನ ಪೋರೆನಿಕ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ



-ಡಾ.ವಿಸೋದ್ ಸಾಯಕ್, ಮಣಿವಾಲ ಕಸೂರ್ಭ ಮಡಿ

ಮಕಳ ಫಿಸಿಕಲ್, ಮೆಂಟಲ್ ಪಿಟ್ ನೆಸ್ ಗೆ ಒತ್ತು ಕೊಡಿ ಬಾಲಿವುಡ್, ಸ್ನಾಂಡಲ್ ವುಡ್ ಮೊಳಗಿನ ಡ್ರಗ್ ಕಳಂಕ ಅರಿವಿನ

ಹೂಸ ಬಿಕ್ಕು ತೋರಿದೆ. ಮದ್ರ, ಸಿಗರೇಟು, ಮಾದಕ ನಿಯಂತ್ರಣ ಅತಿ ಮುಖ್ಯ. ಪದಿಷರೆಯದೆ ಮಕ್ಕಳು ಹಚ್ಚಿನ ಸಂಖ್ಯೆ ಯಲ್ಲಿ ಮದ್ದ, ಮಾದಕ ಜಾಲದಲ್ಲಿ

ಸಿಲುಕುಕ್ತಿದ್ದು ಇದರಲ್ಲಿ ಕುತೂಹಲ, ಸೇಹಿತರ ಒತ್ತಡ, ಪ್ರಯೋಗಶೀಲತೆಯ ಪಾತ್ರವಿದೆ. ರೋಲ್ ಮಾಡಲ್ಗಳು ಬದಲಾಗಬೇಕು. ಮದ್ರ, ಮಾದಕದಿಂದ ಒತ್ತಡ ಕಡಿಮೆ, ಆತ್ಮವಿಶ್ವಾಸ ವೃದ್ಧಿಯಂತಹ ಸಾಮಾಜಿಕ ಮೌರ್ಥ್ಯಗಳು ದೂರವಾಗಬೇಕು. ಮದುಳಿನ ಮೇಲೆ ವಭಾವ ಬೀರುವ ಮಾದಕದಿಂದ ಮಕ್ಕಳ ಓದಿಗೆ ತೊಡಕು, ಖಿನ್ನತೆ, ಅವಘಾತ, ಅನಾರೋಗ್ಗೆ ಸಹಿತ ನಾನಾ ಅಪಾಯ ತಂದೊಡುತ್ತದೆ. ಗಾಂಜಾ, ವಿಕೋಟನ್ ನಿಂದ ಶ್ರಾಸಕೋಶ ಕಾಯಿಲೆ ಉಲ್ಲಣವಾಗುತ್ತದೆ. ಮದ್ರ ಪಾನದಿಂದ ರೋಗ ನಿರೋಧಕ ಶಕ್ತಿ ಕಡಿಮೆಯಾಗುತ್ತದೆ. ಡ್ರಗ್ಸ್ ಸೇವನ ಇಂಜಿಕ್ಷನ್ ಹಂತಕ್ಕೆ ತಲುಪಿದ್ದು ಎಂಡಾರ್ಫನ್ ರಾಸಾಯನಿಕ ಬಡುಗಡೆ ನಿಟಿನಲ್ಲಿ ಪ್ರತಿಯೊಬ್ಬರಿಗೂ ದೈಹಿಕ ಚಟುವಟಕೆ, ಒತ್ತಡ ನಿವಾರಣೆ ಅತಿ ಮುಂಖ್ಯ.

-ಡಾ. ಪಿ.ವಿ. ಭಂಡಾರಿ, ಖ್ಯಾತ ಮಣ್ಣೋಶಾಸ್ತ್ರವು ದೊಡ್ಡಣಗುಡ್ಡೆ ಡಾ. ಎ.ವಿ. ಬಾಳಿಗಾ ಆಸಕ್ರೆಯ ವೈದ್ಯ ಕೀಯು ಅಧೀಕ್ಷಣೆ



ಮುನಡಸುವ ಸಕಣೆಗಳು ರೂಪ್ರಗೊಳಲಿ.

ಕರಾವಳಿ ಮಾದಕ ಹಾಟ್ ಸಾಟ್ ಆಗದಿರಲಿ

ಆಮಿಷ, ಆಕರ್ಷಣೆಗಳ ನಡುವೆ ವಿದ್ಯಾರ್ಥಿ, ಯುವಪೀಳಿಗೆಯನ್ನು ಸಮರೋಪಾದಿಯಲ್ಲಿ ಸರಿದಾರಿಗೆ ತರುವ ಕೆಲಸ ನಾವಲ್ಪರೂ ಮಾಡಬೇಕು. ಒಳಿತು, ಕಡುಕಿನ ಅರಿವು ಮಕ್ಕಳಿಗೆ ಮೊದಲಾಗಬೇಕು. ಮಕ್ಕಳ ಮಾನಸಿಕ ಆರೋಗ್ಯ , ದೈಹಿಕ ಚಟುವಟಕೆ ನಿಟ್ಟನಲ್ಲಿ ಆಟೋಟದಲ್ಲಿ ಕೊಡಗಿಸಬೇಕು. ಅನಗತ್ತೆ ಒತ್ತಡ ಸಲ್ಪದು. ಕರಾವಳಿ ಮಾದಕ ಪಾಟ್ ಸಾಟ್ ಆಗದಂತೆ, ಶಾಲಾ ಕಾಲೇಜುಗಳು ಮಾದಕ ಕೇಂದ್ರಗಳಾಗದಂತೆ ಎಚ್ಚರ ಅತ್ಯಗತ್ತ . ಮಕ್ಕಳಿಗೆ

ಕಾಲಕಾಲಕ್ಕೆ ಆಪ್ತ ಸಮಾಲೋಚನೆ(ಕೌನ್ಗೆಲಿಂಗ್), ಮಾದಕ ಪೂರೈಕೆಯ ಮೂಲವನ್ನು ಪೊಲೀಸರು ಪತ್ತೆ ಹಚ್ಚಿ ನಿಯಂತಣಕ್ಕೆ ಕ್ರಮ ಕೈಗೊಳ್ಳದೇಕು. ಶಾಲಾ, ಕಾಲೇಜುಗಳಲ್ಲಿ ಇನ್ನಷ್ಟು ಅರಿವು, ಜಾಗ್ರತಿಯಾಗಬೇಕು. ಕೋವಿಡ್ ಬಳಿಕ ಗೊಂದಲ, ಆತಂಕದ ವ್ಯವಸ್ಥೆಯ ನಡುವೆ ಆನ್ ಲೈನ್ ಪಾಠ, ಪರೀಕಗಳು ನಡೆಯುತ್ತಿದ್ದು ಮಕ್ಕಳ ಮಾನಸಿಕ, ದೈಹಿಕ ಆರೋಗ್ಯದ ಸಮನ್ರಯ, ಸಮತೋಲನಕ್ಕೆ ಒತ್ತು ಆತ್ಮಗತ್ಯ. ಮದ್ದ, ಮಾದಕ ನಿಯಂತ್ರಣದ ಅರಿವು ಆಂದೋಲನವಾಗಲಿ. ಉತ್ತಮ ಬದುಕು

- ಟಾಂದ್ರ ಸುಭಾಸ್ ಕೆಟ್ಟೆ, ಗುರುಶುಲ ಸಮೂಹ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆ ಕಾರ್ರನಿರ್ವಾಹಕ ಟ್ರಶ್ನಿ, ಕುಂದಾಪುರ

ಕಾರಿಗಳು, ವೃದ್ಧರು, ತಜ್ಞರು ಡ್ರಗ್ಸ್

ವೆಟನಾರ್ ನಲ್ಲಿ ಪಾಲ್ಗೊಂಡಿದ್ದ ಅಧಿ ಶಾಲಾ ಕಾಲೇಜು, ಸಂಘ ಸಂಸ್ಥೆಗಳು, ಜನತೆ ಡ,ಗ್ ಆನ್ ಲೆ,ನ್

0

ಮಣಿತಾಲದಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಯಾಗಿದ್ದ 20 ವರ್ಷದ ಯುವಕನೊಬ್ಬರಿಕ್ಷಣದ ಜನವಾಗ ವಾರ್ಕ್ ವೆಚ್ ಮೂಲಕ ವ್ರಸ್ತ್ ಆನ್ ಲೈನ್ ಹೇಗೆ ಖರೀದಿ ಮಾಡಬಹುದೆಸುವ ಅಧ್ಯಯನದಲ್ಲಿ ತೊಡಗಿದ್ದ, ಬಹಿಕ್ ಕಾಯಾನ್ ಮೂಲಕ ಮಾಡುವ ಪಾವತಿ, ಪ್ರವಹಾರದ

34. Gender Neutrality of Rape Laws in India

• Panel Discussion



PIRED BY

(Deemed to be University under Section 3 of the UGC Act, 1956)



01 September 2021 9:00 am onwards

3rd Floor, Dr TMA Pai Auditorium KMC, Manipal

Program Schedule 9:00 am

Welcome Address Dr Sharath Kumar Rao Dean, KMC, MAHE, Manipal

Overview of Violence Against Saviours Dr Avinash Shetty Medical Superintendent, Kasturba Hospital, Manipal

Lighting the lamp

Inaugural Address by Chief Guest Mr N Shashikumar IPS, Commissioner of Police, Mangalore

Guest of Honour

Mr N Vishnuvardhan IPS, Superintendent of Police, Udupi

Presidential Address by Dr H S Ballal Pro Chancellor, MAHE, Manipal

Vote of Thanks

Dr Vinod C Nayak Co-ordinator, Centre for Clinical & Innovative Forensics Professor, Dept. of Forensic Medicine KMC, MAHE, Manipal



35. Panel Discussion on Violence Against Saviours



36. Talk on Cyber Security, October 2021: Resource Person – Dr Ananth Prabhu





37. CME on Forensic Nursing, November, 2021





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38. Workshop on Drug Detection for Police





39. High Intensity Drug Trafficking Investigation Workshop for Coast Guard and Airport Officials





40. Training of Udupi District Police for Zonal Competitive exams



41. Workshop on 'Golden Hour Management' for First Responders MANIPAL

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42. Workshop on Investigative Techniques for Police



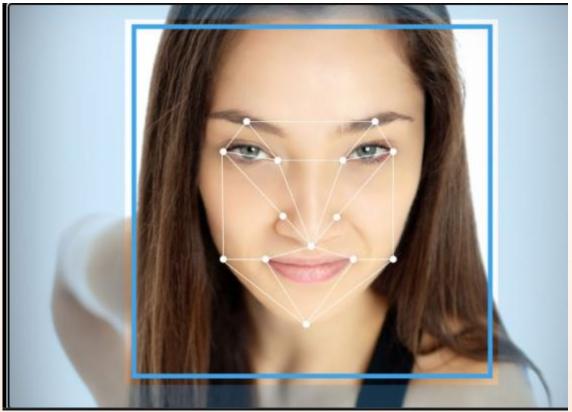


43. Workshop on Forensic ballistics and Toxicology, November 2021





44. Multi Modal Facial Analysis Project



45. Hospital Software for MCCD



2. Grants

Sexual Assault Nurse Examiner Training Project	 Grant applied on 2-1-2019 (Rs.30 lks) ICMR Grant applied on 2-1-2019 (Rs.35 lks) (NCW)
DNA methylation in Alzheimer's development and progression	 Grant applied on 12-2-2019 Amount : Rs.2 Cr (DBT) (in collaboration with Queensland University of Technology
SERB SUPRA :	 Project Title - Isolation, Purification and Identification of Anti Parkinsonian components from Indian snake venom and the therapeutic potential of surface modified exosome loaded snake venom components in a parkinsons disease model Amount Rs 81Laks
2 Travel grants	• Rs. 1,00,000

3. Publications



- Yesodharan, R., Nayak VC, Jose, T.T., Nirmal Krishnan, M. *et al.* Looking through the lens of a sexual assault examiner: novel trends and approaches in forensic photography. *Egypt J Forensic Sci* 11, 27 (2021). https://doi.org/10.1186/s41935-021-00241-7
- Local Burden of Disease Vaccine Coverage Collaborators (2021). Mapping routine measles vaccination in low- and middle-income countries. *Nature*, 589(7842), 415–419.
 https://doi.org/10.1038/s41586-020-03043-4
- GBD 2019 Collaborators (2021). Global mortality from dementia: Application of a new method and results from the Global Burden of Disease Study 2019. *Alzheimer's & dementia (New York, N. Y.)*, 7(1), e12200. <u>https://doi.org/10.1002/trc2.12200</u>



- GBD 2019 Viewpoint Collaborators (2020). Five insights from the Global Burden of Disease Study 2019. *Lancet (London, England)*, 396(10258), 1135–1159. https://doi.org/10.1016/S0140-6736(20)31404-5
- LBD Double Burden of Malnutrition Collaborators (2020). Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. *Nature medicine*, 26(5), 750–759. <u>https://doi.org/10.1038/s41591-020-0807-6</u>
- James, S. L., Castle, C. D., Dingels, Z. V., Fox, J. T., Hamilton, E. B., Liu, Z., Roberts, N., Sylte, D. O., Bertolacci, G. J., Cunningham, M., Henry, N. J., LeGrand, K. E., Abdelalim, A., Abdollahpour, I., Abdulkader, R. S., Abedi, A., Abegaz, K. H., Abosetugn, A. E., Abushouk, A. I., Adebayo, O. M., ... Vos, T. (2020). Estimating global injuries morbidity and mortality: methods and data used in the Global Burden of Disease 2017 study. *Injury prevention : journal of the International Society for Child and Adolescent Injury Prevention*, 26(Supp 1), i125–i153. https://doi.org/10.1136/injuryprev-2019-043531



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- GBD 2019 Demographics Collaborators (2020). Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950-2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019. *Lancet (London, England)*, *396*(10258), 1160–1203. <u>https://doi.org/10.1016/S0140-6736(20)30977-6</u>
- GBD 2019 Universal Health Coverage Collaborators (2020). Measuring universal health coverage based on an index of effective coverage of health services in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet (London, England)*, 396(10258), 1250–1284. https://doi.org/10.1016/S0140-6736(20)30750-9
- Salian SR, Uppangala S, Cheredath A, D'Souza F, Kalthur G, Nayak VC, Anderson RA, Adiga SK. Early prepubertal cyclophosphamide exposure in mice results in long-term loss of ovarian reserve, and impaired embryonic development and blastocyst quality. PLoS One. 2020 Jun 23;15(6):e0235140. doi: 10.1371/journal.pone.0235140. PMID: 32574203; PMCID: PMC7310698.



- GBD 2019 Dementia Collaborators (2021). Use of multidimensional item response theory methods for dementia prevalence prediction: an example using the Health and Retirement Survey and the Aging, Demographics, and Memory Study. *BMC medical informatics and decision making*, 21(1), 241. <u>https://doi.org/10.1186/s12911-021-01590-y</u>
- Local Burden of Disease HIV Collaborators (2021). Mapping subnational HIV mortality in six Latin American countries with incomplete vital registration systems. *BMC medicine*, *19*(1), 4. https://doi.org/10.1186/s12916-020-01876-4
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- Local Burden of Disease HIV Collaborators (2021). Subnational mapping of HIV incidence and mortality among individuals aged 15-49 years in sub-Saharan Africa, 2000-18: a modelling study. *The lancet. HIV*, 8(6), e363–e375. <u>https://doi.org/10.1016/S2352-3018(21)00051-5</u>
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4. Certificate Courses Conducted



- 1. Certificate Course on Drug Abuse Counselling Certificate Courses
- 2. Proposed :
 - 1. Certificate Course n Clinical and Analytical toxicology
 - 2. Certificate Course on Forensic Nursing

Final Review



	Results	Review
Term	Jan 2018 – December 2021	
1.	Stake Holder Engagement	45
2.	Research Grants Applied	6 (Rs.2,47,00,000)
3.	Publications	22
4.	Courses	1



Additional Information

• Organ Transplantation in MLC's



ion 3 of the UGC Act, 1956)



KMC Manipal and Udupi Police join hands...

Mangalorean.com

KMC Manipal and Udupi Police join hands for 'green corridor' to assist Live Organ Transport



Related images:







Awareness Program on Organ Donation for Udupi Police





55 UDUPI DAR POLICEMEN PLEDGE ORGANS TO MARK DECENNIAL YEAR OF 2008 BATCH

PRAKASH SAMAGA @Udupi

A batch of reserve police wing in Udupi district took up the unique oath to go for organ donation. The occasion of the decennial celebration of the District Armed Reserve police of 2008 batch gave them the reason to do something good for society and 15 of them decided to donate their organs and 40 their eyes, on Saturday

Out of a total 108 reserve police staff of 2008-year batch who were deputed in Udupi district, 67 are still serving in Udupi in the District Armed Reserve (DAR) police wing, while the remaining have moved to other wings of police like Anti-Corruption Bureau (ACB), Coastal Security Police and state intelligence wing. And, 22 of them got transferred to other districts; eight resigned and took up other jobs. Among the 67 reserve police staff of the 2008 batch who are in Udupi, apart from those who have already decided, some more have decided to go for organ donation in the days to come

Ravi Prakash, a staff at the The New Indian Express that



2008 batch of District Armed Reserve Police celebrate their reunion on the occasion of the decennial celebration of their batch in Udupi on Saturday

he informed.

Prof Navak added that he gave

Prof Vinod C Nayak, Head of the social organisations that con-Department of Forensic Mediduct such camps. So we decided cine, Kasturba Medical College, to do this," he added. He further Manipal, inspired them to do so. said that being a policeman, he "When we invited Prof Nayak comes across many instances of for the decennial programme in accident cases where organ Udupi on Saturday, he motivated transplant is necessary to save us to go for organ donation. the life of a victim. "So this is which again will be our service our small step to create awareto the society," he said. ness among the people about the importance of organ donation,"

"Initially, we had thought of DAR police wing in Udupi told organising a blood donation camp, but there are many other

urday as the 2008-batch reunion was under way, as it was for the noble cause organ donation. "I told them they can go for eye donation, organ donation and cadaver donation," he added. Baramappa R Ganti, a DAR staff, revealed that he is from Ha-

the necessary application form to the reserve police staff on Sat-

veri district and worked as a mason in Udupi before joining the force in 2008. "I feel great to donate my organs as a police job is service oriented. This is an extension of our service mindset." he said. Udupi SP Laxman B Nimbargi said that it is common to see decennial celebrations, batch-end merry making and picnics. "But the 2008 batch of DAR in Udupi are pledging their organs, and they will be worthy role models to juniors," he added.

> initially, we had thought of organising a blood donation camp, but there are many other social organisations that conduct such camps. So we decided to do this

Ravi Prakash, Staff



SOP on End of Life Care – Blue Maple





• National Panel of Medico-Legal experts

• Maharashtra Medico legal association

• NPA

• President KAMLS



Centre for Travel Medicine

Coordinator: Dr Chythra R Rao, Dept. of Community Medicine, KMC, Manipal

Evaluation Period: Phase I/Phase II/Phase III/Phase IV/Phase V



Centre Overview

Centre	Centre for Travel Medicine
Approval Date	12/11/2018
Coordinator	Dr Chythra R Rao
Inception Date	01/12/2018
Term	2 Years+2 years
Reporting to	Dean, KMC, Manipal
Statement	
Vision	To develop a personalized State of the Art "Centre for Travel Medicine" at Manipal
Mission	To provide preventive services for international travelers through risk assessment, screening, vaccinations and follow up evaluation
Objectives	 To create awareness about pre travel consultation/travel medicine To develop standard pre travel immunization docket To provide personalized travel risk assessment for international travelers

Members and Stakeholders



Team Members:

- Dr Ashwini Kumar
- Dr Raviraja Acharya
- Dr Kavitha Saravu

Key Stakeholders Involved

- Dean KMC, Manipal
- MS & COO Kasturba Hospital
- HOIs of other constituent institutions

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1 – 6 months	 Conduct a CME Awareness session for general public Preparatory work for launch of Travel clinic 	 Safe Travel Symposium held on March 23 2019 Talk on Travel medicine – Arogya Chintana –hosted by Daijiworld on 25 May 2019 Listing the clinic in the online ISTM Clinic directory
Phase 2	7 – 12 months	 Develop standard template for students immunization Information dissemination through Arogyavani articles Vaccination services for students & travelers Assessment of local environment with respect to travelers safety 	 Dissemination of Travel clinic services to all HOIs. Provided inputs for developing Immunization schedule, prophylaxis and health record for Student mobility center at KMC, Manipal Developed Travel vaccination advisory for students (National/International) visiting India Published Arogyavani articles Funding obtained for AMR assessment
Phase 3	13 – 18 months	Vaccination services for students & travelers	Online ISTM registration renewed
Phase 4	19 – 24 months	 Information dissemination through Arogyavani articles Covid vaccination co-ordination 	 Published Arogyavani articles Funding (2nd instalment) obtained for AMR assessment Facilitating Covid -19 vaccination at Marena Online ISTM registration renewed
Phase 5	25 – 30 months	 KMC & KH to be one of the participating sites for multicentric Covid_AESI sentinel surveillance Covid-19 vaccination co-ordination 	 Funding (3rd instalment) obtained for AMR assessment Covid_AESI sentinel surveillance project initiated Facilitating Covid -19 vaccination at Marena

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome	
Certificate Course			
Workshops/ Conference	Sensitization for faculty & post graduates on International Health regulations	 Resource person for session on, "Travel health care services" as part of Continuing Nursing Education for faculty & PhD scholars of Manipal College of Nursing & Manipal School of Nursing on 20th November 2020 at KMC, Manipal on MS Teams platform Session on Covid -19 vaccination hub –Indian experience for the students of Virtual elective program of MAHE & King's College, London 	
Research Grants Applied & funded	 MACID seed grant ICMR adhoc funding MoH&FW & ITSU funding 	 Completed MAC ID Seed grant as PI for the year 2019-2020. Funding amount: 2,00,000 INR; Duration: 2019-2020 Obtained funding from ICMR (2nd installment) as PI. Funding Amount: 27,20,933 INR; Duration: 2019-2022 Obtained funding for Sentinel Surveillance for Adverse Events of Special Interest (AESI) following COVID-19 vaccination in India as PI. Amount:15,00,000 INR; Duration: Feb 2022 – Jun 2023 	
Research Publications	3 Lancet publications as part of GBD collaborators	 Global, regional, and national sex differences in the global burden of tuberculosis by HIV status, 1990–2019: results from the Global Burden of Disease Study 2019. Tracking development assistance for health and for COVID-19: a review of development assistance, government, out-of-pocket, and other private spending on health for 204 countries and territories, 1990–2050. Global, regional, and national sex-specific burden and control of the HIV epidemic, 1990–2019, for 204 countries: the Global Burden of Diseases Study 2019. 	
Collaborations	Registered Travel clinic @Kasturba Hospital with the International Society of Travel Medicine	Listing in the online ISTM Clinic directory	
Consultancy/ Revenue	 Facilitated student vaccinations & Pre travel vaccinations Facilitating Covid 19 vaccination at Marena for MAHE staff, students & general public 	Rs 300 per consultation @ KH as Specialty Travel Clinic services	

Final Review



Target	Results	Review
Phase 1	 Awareness generation activities undertaken Listing of Kasturba Hospital Travel Clinic in the online ISTM Clinic directory 	
Phase 2	 Travel clinic consultations initiated at Kasturba Hospital as specialty clinic every Friday Obtained research grants Awareness generation activities undertaken 	
Phase 3	Awareness generation activities undertakenFunding obtained	
Phase 4	 Awareness generation activities undertaken Funding continued from ICMR (2nd installment) Facilitating Covid 19 vaccination at Marena for MAHE staff, students & general public 	
Phase 5	 Funding (3rd instalment) obtained for AMR assessment Covid_AESI sentinel surveillance project initiated Facilitating Covid -19 vaccination at Marena 	



Photographs

Publication list:

1. Chythra R Rao, GBD 2019 Tuberculosis Collaborators. Global, regional, and national sex differences in the global burden of tuberculosis by HIV status, 1990–2019: results from the Global Burden of Disease Study 2019. Lancet Infect Dis 2022; 22(2): 222-241.

2. Chythra R Rao, Global Burden of Disease 2020 Health Financing Collaborator Network. Tracking development assistance for health and for COVID-19: a review of development assistance, government, out-of-pocket, and other private spending on health for 204 countries and territories, 1990–2050. The Lancet 2021; 398; (10308): 1317-1343.

3. Chythra R Rao, GBD 2019 HIV Collaborators. Global, regional, and national sex-specific burden and control of the HIV epidemic, 1990–2019, for 204 countries and territories: the Global Burden of Diseases Study 2019. The Lancet HIV 2021; 8 (10): E633-E651.

News paper articles: Arogyavani articles on traveller's health, anti microbial resistance, infectious diseases –dated, Jan 2022; Jan, July, Sep 2021; Jan, March, June 2020; Sep 2019

Grants: Role as investigator: Principal Investigator – Completed project

- 1. Seasonal trends in microbial quality of community water samples and perspectives about antibiotic use and misuse in the community
- Funding agency: Manipal McGill Centre for Infectious Diseases, KMC, Manipal MAC ID Seed grant for the year 2019-2020
- Funding amount: 2,00,000 INR; Duration: 2019-2020

Role as investigator: Principal Investigator – ongoing project

- 1. Socio-cultural and environmental drivers of antibiotic resistance in the community: people, physicians and pharmacists' perspective a mixed methods approach
- Funding Agency: ICMR; Funding Amount: 27,20,933 INR; Duration: 2019-2022
- 2. Sentinel Surveillance for Adverse Events of Special Interest (AESI) following COVID-19 vaccination in India
- Funding agency: ITSU, MOHFW; Funding Amount: 15,00,000 INR; Duration: 2022-2023

Collaborating institutes & Centers: Registered Travel clinic @Kasturba Hospital with the International Society of Travel Medicine



Centre for Foetal and Perinatal Pathology

Coordinator: Dr. Mary Mathew Evaluation Period: 4th Year Phase I

Centre Overview



Centre	Centre for Fetal and Perinatal Pathology (C-FPP)	
Approval Date 25/01/2019		
Coordinator	Dr. Mary Mathew	
Inception Da	te 01/02/2019	
Term	2 Years +2 years	
Reporting to Dean, KMC, Manipal		
Statement		
Vision	To be a National and Regional Reference Centre for Fetal and Perinatal Pathology	
Mission	• To identify the causes of fetal and perinatal deaths • To identify preventable causes of death and thereby reduce the perinatal mortality rate	
Objectives	1. High quality service provision 2. Medical and scientific advances in perinatal pathology 3. Education, Training and Courses 4. Support services to affiliate and regional hospitals/clinics 5. Building national and international linkages	

Members and Stakeholders



Team Members:

Mentors:

Dr. Ranganathan, University of Cincinnati, USA Dr. Irene Scheimburg, London Hospital, UK Dr. Marta Cohen, Sheffield Children's Hospital, UK

Members: KMC , Manipal Dr. Mary Mathew MD, DCH. Professor & Head, Pathology Dr. Leslie Lewis, MD, DCH, Professor & Head, Pediatrics Dr. Shalini Nayak, PhD, Assistant Professor, Medical Genetics Dr. Prashanth K Adiga, MD, Professor, OBG & Gyn Dr. Rajagopal KV, MD, Professor, Radiology

Key Stakeholders Parents Neonates Pediatricians **Obstetricians** Geneticists Public Health Administrators Community Scientific Community

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	1-6 months	 KMC Manipal -Mangalore postgraduate case discussion Research on placenta Thesis on placental studies COD Review meetings with Pediatricians & Obstetricians 	To commence in July- August Collaboration with University of Melbourne 1 MD candidate from OBG thesis on placenta Monthly meetings
Phase 2	7-12 months	E- learning platformPublications	Design in progress 1 international paper submitted, 2 papers in process of submission
Phase 3	13-18 months	 Design modules on autopsy and placenta CME, Conferences Certificate course in Perinatal Pathology 	Commenced Proposed for 2023 with AIPNA Not yet started
Phase 4	19-24 months	 Designing a manual of Case series on perinatal autopsy Atlas on Perinatal pathology 	In progress In progress

Details of the Process and Outcome



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Key Activities	Details of the Process	Measurable Outcome
Certificate Course	Planning Phase	Yet to start
Workshops/ Conference	 Conducted 2- day Hands-on Workshop on MITS and Placental Pathology funded by Bill & Melinda Gates Grant (RTI) Planning for 5th Pediatric Pathology Conference in Manipal 2023 with AIPNA 	29th & 30th Jan,2020 Trained 52 postgraduates – Pathology & Pediatrics
Research Grants Applied	Minimally Invasive Tissue Sampling. {Funded Bill & Melinda Gates Foundation RTI grant awarded • IPOP study grant – Applied • SERB Core Grant – Applied McGill grant - Applied	Study on MITS of brain in neonates with neurological insults – Completed Not obtained Not obtained Not obtained
Research Publications	1	Published paper in Journal of Clinical Infectious Disease Q1 journal
Collaborations	 Dept of Biotechnology and the Mechanical Department, MIT Collaboration -Perinatal Pathology, Newcastle upon Tyne University, UK Co-Lab (USA) –Magee-Womens Research Institute & Foundation Pittsburg 	3D printed Brain Slicer design – Version 1
Consultancy/ Revenue	Nil-	-



Final Review

Target	Results	Review
Phase 1	Achieved the targets	
Phase 2	Partially achieved	E- learning platform discussions to be iinitiated
Phase 3	Partially achieved	Certificate course & CME's, & conferences discussions to be initiated
Phase 4	Yet to start	

Additional Information



Publication Lists:1. Cause of death in neonates with neurological insults at the neonatal intensive care unit: Insights from a MITS pilot study –Journal of Clinical Infectious Diseases Q1

Grants: Bill and Melinda Gates Foundation grant - 50,000 US \$ for study on "Validity of minimally invasive tissue sampling in determining the cause of death in stillbirths and neonates due to neurological insults in the brain: A study in a tertiary care center in India" – Study completed

Collaborating institutes & Centers: 1. Collaboration with Co-Lab (USA) –Magee-Womens Research Institute & Foundation Pittsburg on placental data base and information

2. Improved Characterization of Eclampsia to optimize maternal and perinatal outcomes: the ICE study, University of Melbourne, Victoria, Australia

Conference presentations:

- 1. Presentation on the MITS study in BMG Foundation grant presentation at Seattle, USA, 2019.
- 2. Ms. Athira Sreenivas (PhD candidate) Poster presentation –BIOTECHIKA emerging areas in Biotechnology
- 3. Dr. Mary Mathew, Moderator for KAPCON 20 3rd Oct, Pediatric pathology session
- 4. Dr. Saraswati Mohan, Renal-Hepatic-Pancreatic Dysplasia: Fetal Autopsy Findings of A Rare Syndrome

5. Dr. Mary Mathew, Attended and was a moderator for Embryo-Foetal Pathology, Miid-year teaching program IAP-ID, AIIMS Bhopal, May 2022

Additional Information



Scholarships:

1. Dr. Mary Mathew received the James McAdams Short-Term Study Stipend – 5000\$ by SPP in 2019, 1 month in UPMC Children Hospital Pittsburgh, USA under the mentorship of Dr. Ranganathan

2. Dr. Mary Mathew received IPPA (International Pediatric Pathology Association) course scholarship for 5 years. 1 week training in Portugal in September 2019, Sheffield 2020, Netherlands 2022

PhD Candidate

- Guide Ms. Athira Sreenivas, 2020, KMC, Manipal
- Co-guide Mr. Sujesh Suju, 2022, Biotechnology, MIT, Manipal
- DAC, Member for Ms Shravya, 2022, Medical genetics





Hands-on Workshop on Minimally Invasive Tissue Sampling funded by Bill & Melinda Gates Grant (RTI), 28th & 29th Jan 2020



Manipal Centre for Benign Hematological Disorders

Coordinator: Dr Ganesh Mohan Evaluation Period: Phase I (Year 2)

Centre Overview



Centre	Manipal Centre for Benign Hematological Disorder	
Approval Date	01/12/2019	
Coordinator	Dr Ganesh Mohan	
Inception Date	01/04/2019	
Term	Two Years	
Reporting to	Dean, KMC Manipal	
Statement		
Vision	To provide comprehensive care, diagnosis, rehabilitation, education and research in the area of benign hematological disorders through a multidisciplinary approach.	
Mission	Multidisciplinary approach to patient diagnosis and rehabilitation	
Objectives	Comprehensive Patient Care, Research	

Members and Stakeholders



Team Members:

Mentors : Dr. Shamee Shastry

Members : Dr. Vasudeva Bhat, Dr. Archana MV, Dr. Shwethapariya Rao, Dr. Sushma Belurkar, Dr. Vishal Shanbhag, Dr. Vimal Krishnan, Dr. Freston Marc Sirur **Key Stakeholders Involved**

Planned Activities



Milestones	Review Period	Planned Activity	Action Taken
Phase 1	06/2022	Establishing an office room. Conducting a national CME	Identifying the space required. Initial talk with International faculties on the topic of Thrombotic microangiopathy and inviting them asw faculties
Phase 2	NA		
Phase 3	NA		
Phase 4	NA		

Details of the Process and Outcome



Key Activities	Details of the Process	Measurable Outcome
Certificate Course	NIL	NIL
Workshops/ Conference	NIL	NIL
Research Grants Applied Research Publications (Total)	ICMR ADHOC Grants applied. Industrial grant received. SERB Core research grant applied 9	Approved-1. On progress – 2 Industrial grant – 1 completed. Ongoing - 2 8 international and 1 national
Collaborations	Interdepartmental Collaborations – Three International Collaboration – One	Dr. Jecko Thachil, Hematologist from Royal Informary Hospital, Manchester, UK. Inter departmental – Paediatric Hemato Onco, Critical care and Emergency Medicine Inter institutional – Department of Atomic and Molecular Physics, MIT
Consultancy/ Revenue	NIL	NIL

Final Review



Target	Results	Review
Phase 1	Partially Achieved target	Partially achieved as clinical coordination still a bottleneck. Some
Phase 2	NIL	NIL
Phase 3	NIL	NIL
Phase 4	NIL	NIL



Additional Information

Photographs

Publication list:

News paper articles:

Grants:

Collaborating institutes & Centers

Any other relevant information