

Research @ Kasturba Medical College, Manipal Dr. TMA Pai Endowment Chairs and Centers



Centres of excellence under MAHE

Dr. Ravindra Prabhu
Professor, Department of Nephrology
Kasturba Medical College, Manipal

Clinical Epidemiology Unit

Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none"> • Coordinate research at intra and inter departmental level in K.M.C. Manipal. • Encourage clinical research through inter institutional cooperation. • To liaise with industry for diagnostic / device related clinical research. • Capacity building of health care professionals in the field of clinical research methods and biostatistics. 	<ul style="list-style-type: none"> • Conduct of regular CMEs on clinical research, meetings of faculty from different departments to promote research, projects with interdepartmental collaboration 	<ol style="list-style-type: none"> 1. To conduct workshops to promote research among PG & faculty. 2. Collaborate with other discipline and institutions for clinical research. 3. Conduct CMEs. 4. To start disease registries in hospital. 	<ul style="list-style-type: none"> • The prevalence of falls and factors associated with fear of falling among patient with ARMD • Clinical Study of Diabetic retinopathy Screening Algorithm funded by Robert Bosch • Impact of obstructive sleep apnea on circadian variation of intraocular pressure and structural-functional changes of retina

Dr. Satish Kumar Adiga
Professor, Division of Clinical Embryology,
Kasturba Medical College, Manipal

Human Fertility & Clinical Embryology			
Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none"> To provide to cancer affected prepubertal boys & girls, adult men & women 	<ul style="list-style-type: none"> Innovations to preserve fertility in cancer affected prepubertal boys: From experimental approaches to clinical applications. Repeated superovulation induced changes in the oocytes, embryos and somatic cells Effect of biotin supplementation to sperm wash media on the enhancement of sperm function and pregnancy outcome in intrauterine insemination program 	<ul style="list-style-type: none"> To explore the possibilities of introducing postgraduate program in Clinical Embryology in MU-Dubai or Melaka Campus 	<ul style="list-style-type: none"> AvH DST ICMR Nordic Centre for Fertility Preservation(Karolinska Institutet)

Dr. Joseph Thomas
Professor, Department of Urology
Kasturba Medical College, Manipal

Centre for Bioethics

Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none">To develop a centre of learning in bioethics in India and the neighbouring region for multidisciplinary researchers and practitioners of medical and allied health sciences.	<ul style="list-style-type: none">Conducted 6 Certificate Courses in Bioethics of two months duration. 126 candidates have successfully completed the Certificate Course.	<ul style="list-style-type: none">Short term<ul style="list-style-type: none">The general workshop for 3 days on topics covering human protection, responsible conduct of research and Good Clinical Practices.Long term<ul style="list-style-type: none">One year Fellowship program in bioethicsMasters in BioethicsOnline course for ethics committee members	<ul style="list-style-type: none">None

Dr. Pragna Rao

Dean, KMC, Manipal

Centre of Excellence in Inborn Errors of Metabolism

Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none"> The aim of this center is to understand the challenges in newborn screening and initiate newborn screening in the state of Karnataka 	<ul style="list-style-type: none"> Indo-German metabolic meet conference was held on 23rd and 25th of September. A workshop was conducted to provide training to Health care professionals. A total of 434 babies were screened in two months ie 2nd August 2017-30th September 2017 Centre has diagnosed over 3000 high risk cases so far 2 PhD studies, 4 post-graduate theses are supported 	<ul style="list-style-type: none"> Implementing NBS program to other hospitals in Udupi taluk. And training on NBS and creating awareness on IEM to non-facility based health workers like community health workers and ASHA workers., teachers. Counsel and create awareness among young boys and girls on the significance and need of newborn screening. Conducting and co-coordinating outreach campaigns using radio/television and internet (online campaign). Implementing and extending the present parameters of NBS Screening for Hb variants. Aiming to acquire and initiate tandem mass spectroscopy for confirmatory diagnosis of newborn screening 	<ul style="list-style-type: none"> Collaboration with Dr. Sudheer Moorkoth, Manipal College of Pharmaceutical Sciences for high end diagnosis technique like GCMS and LC MS. Grants: VGST/CESEM/GRD-308/2014-2015 funding 60 lakhs Indian currency Grand Challenges Canada

Dr. Kavita Saravu
Professor, Department of Medicine
Kasturba Medical College, Manipal

Manipal McGill Center for Infectious Diseases

Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none">• To achieve excellence in infectious diseases research and training through interdisciplinary and international collaborations and to promote translation of knowledge into policy and practice.	<ul style="list-style-type: none">• Multicentric international study - Determinants of Antimicrobial use and De-escalation in Critical Care (DIANA Study)• Conduct of regular CMEs on clinical research, meetings of faculty from different departments to promote research, projects with interdepartmental collaboration.	<ul style="list-style-type: none">• Converting 8 seed grants pilot projects into extramurally funded objective.• Develop new collaborations with other Universities• Initiate short courses for training in infectious diseases.	<ul style="list-style-type: none">• McGill University, Canada.

Dr. Veena Kamath
Professor, Department of Community Medicine
Kasturba Medical College, Manipal

Centre for vaccine research			
Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none"> To foster research in the area of vaccine research & control and facilitate the output of quality publications and research grants. Capacity building, training and mentorship 	<ul style="list-style-type: none"> A Phase II/III, Multicenter, Open-Label, Randomized Study Of Liquid Bovine Rotavirus Pentavalent Vaccine (LBRV-PV) To Evaluate Lot-To-Lot Consistency And To Compare Non-Inferiority With Lyophilized BRV-PV In Healthy Infants In India A Multicenter Phase II/III Double-Blind, Randomized, Placebo Controlled Study To Evaluate The Efficacy And Safety Of VPM1002 In The Prevention Of Tuberculosis (TB) Recurrence In Pulmonary TB Patients After Successful TB Treatment In India 	<ul style="list-style-type: none"> To emerge as a centre for vaccine research 	<ul style="list-style-type: none"> RGCB

Dr. Anil K.Bhat

Professor and Head, Department of Orthopaedics

Kasturba Medical College, Manipal

Hastha: Centre for Congenital Hand differences

Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none">To be a nodal centre in India for documentation, knowledge translation and innovative research on congenital hand differences (anomalies)	<ul style="list-style-type: none">A comprehensive and validated online congenital Hand differences registry establishedCME on “ An integrated approach to Congenital Hand Differences” held on April 16th 2017Observership program between 3 major Hand centres at KMC, Manipal, Ganga hospital, Coimbatore, and Wadia hospital, MumbaiDistrict level survey of 0-16 years children completedInformation brochures andMobile app “Hastha”	<ul style="list-style-type: none">Scale up the registry to National RegistryInternational conference/VisitsExtend community survey to Mangalore districtChildren fund3D printing unit for children prosthesis	<ul style="list-style-type: none">Collaboration with 9 centres in IndiaInternational collaboration with Christianne van Nieuwenhoven: Erasmus MC, RotterdamMr. Ian Lowdon: Great Western Hospitals NHS, Swindon, UKMr. Henk Giele: Oxford university NHS trust

Dr. TMA Pai Endowment chairs

Dr. Kiran Chawla
Professor and Head, Department of Microbiology
Kasturba Medical College, Manipal

Tuberculosis Elimination			
Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none"> To conduct Awareness Programmes for Tuberculosis and Quality Research Projects. 	<ul style="list-style-type: none"> Genotypic Detection of fluoroquinolone resistance in MDR TB (SOLS) Experimental evaluation of anti-microbial property <i>Coscinium fenestratum</i> on MDR and other bacterial strains – Ayurvedic department (MU study) Genotypic diversity of MTB strains - National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra 	<ul style="list-style-type: none"> To make TB lab as “state of art” lab To enhance the International and National collaborative research initiatives 	<p>National Collaborations</p> <ul style="list-style-type: none"> - National center of leprosy and other mycobacterial diseases Agra - NIRT Chennai <p>International collaborations</p> <ul style="list-style-type: none"> - Sydney University, Australia - McGill University, Canada

Dr. Vandana K.E
Professor, Department of Microbiology
Kasturba Medical College, Manipal

Antimicrobial Stewardship

Core Philosophy	Achievements	Future Plans	Collaborations/Grants
<ul style="list-style-type: none"> • Integrated Antimicrobial Stewardship Program through education and research for a tertiary care hospital in India • Develop a model of successful program in developing nation with locally relevant guidelines through transformational care 	<ul style="list-style-type: none"> • Initiation of multidisciplinary Antimicrobial Stewardship Team at Kasturba Hospital • Situation analysis of current status of antimicrobial resistance and usage of antimicrobial agents • Antibiotic policy app for android • Initiation of few standard treatment guidelines • Various student projects in infection control • Streamlining of antibiotics formulary at Kasturba Hospital – Stoppage of illegal antibiotic combinations 	<ul style="list-style-type: none"> • Establishment of educational courses for different stakeholders in containment of antimicrobial resistance • Set up a training center for major prescribers of antibiotics • Hospital based research center on stewardship • Industry collaboration for educational initiatives on Antimicrobial Stewardship 	<ul style="list-style-type: none"> • Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India by CDC/AIIMS/ICMR • Participating center in National program in ICMR Antimicrobial Stewardship Program

Dr. Anil K.Bhat

**Professor and Head, Department of Orthopaedics
Kasturba Medical College, Manipal**

Congenital Hand differences

Core Philosophy	Achievements	Future Plans	Collaborations/Grants
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