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

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| • Coordinate research at intra and inter departmental level in K.M.C. Manipal.  | • Conduct of regular CMEs on clinical research, meetings of faculty from different departments to promote research, projects with interdepartmental collaboration | 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. | • 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 |
| • 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. |                                                                              |                                                                              |                                                                                      |
Dr. Satish Kumar Adiga  
Professor, Division of Clinical Embryology,  
Kasturba Medical College, Manipal

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| To provide to cancer affected prepubertal boys & girls, adult men & women      | 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 | To explore the possibilities of introducing postgraduate program in Clinical Embryology in MU-Dubai or Melaka Campus | AvH  
DST  
ICMR  
Nordic Centre for Fertility Preservation(Karolinska Institutet) |
Dr. Joseph Thomas  
Professor, Department of Urology  
Kasturba Medical College, Manipal

## Centre for Bioethics

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| • 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. | • Conducted 6 Certificate Courses in Bioethics of two months duration. 126 candidates have successfully completed the Certificate Course. | • **Short term**  
  • The general workshop for 3 days on topics covering human protection, responsible conduct of research and Good Clinical Practices.  
  • **Long term**  
  • One year Fellowship program in bioethics  
  • Masters in Bioethics  
  • Online course for ethics committee members | • None |
**Centre of Excellence in Inborn Errors of Metabolism**

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| • The aim of this center is to understand the challenges in newborn screening and initiate newborn screening in the state of Karnataka | • 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 | • 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 | • 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 |
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<td>• To achieve excellence in infectious diseases research and training through interdisciplinary and international collaborations and to promote translation of knowledge into policy and practice.</td>
<td>• 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.</td>
<td>• Converting 8 seed grants pilot projects into extramurally funded objective. • Develop new collaborations with other Universities • Initiate short courses for training in infectious diseases.</td>
<td>• McGill University, Canada.</td>
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| • 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 | • 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 | • To emerge as a centre for vaccine research | |
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| • To be a nodal centre in India for documentation, knowledge translation and innovative research on congenital hand differences (anomalies) | • A comprehensive and validated online congenital Hand differences registry established  
• CME on “An integrated approach to Congenital Hand Differences” held on April 16th 2017  
• Observership program between 3 major Hand centres at KMC, Manipal, Ganga hospital, Coimbatore, and Wadia hospital, Mumbai  
• District level survey of 0-16 years children completed  
• Information brochures and  
• Mobile app “Hastha” | • Scale up the registry to National Registry  
• International conference/Visits  
• Extend community survey to Mangalore district  
• Children fund  
• 3D printing unit for children prosthesis | • Collaboration with 9 centres in India  
• International collaboration with Christianne van Nieuwenhoven: Erasmus MC, Rotterdam  
• Mr. Ian Lowdon: Great Western Hospitals NHS, Swindon, UK  
• Mr. Henk Giele: Oxford university NHS trust |
Dr. TMA Pai Endowment chairs
Dr. Kiran Chawla  
Professor and Head, Department of Microbiology  
Kasturba Medical College, Manipal

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| • To conduct Awareness Programmes for Tuberculosis and Quality Research Projects. | • Genotypic Detection of fluoroquinolone resistance in MDR TB (SOLS)  
• Experimental evaluation of anti-microbial property *Coscinium fenestratum* on MDR and other bacterial strains – Ayurvedic department (MU study)  
• Genotypic diversity of MTB strains - National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra | • To make TB lab as “state of art” lab  
• To enhance the International and National collaborative research initiatives | **National Collaborations**  
- National center of leprosy and other mycobacterial diseases Agra  
- NIRT Chennai  
**International collaborations**  
- Sydney University, Australia  
- McGill University, Canada |
Dr. Vandana K.E  
Professor, Department of Microbiology  
Kasturba Medical College, Manipal

Antimicrobial Stewardship

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| • 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 | • 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 | • 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 | • 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

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