

- ii. Resource person for the GFATM sponsored HIV/AIDS Training for Nurses held by the College of Nursing, JIPMER.
- iii. Member of core committee of RNTCP/DOTS, JIPMER.
- iv. In-charge of Link-ART clinic for AIDS patients
- v. Member of PG Research Monitoring Committee **Dr. D.K.S. Subrahmanyam**
- vi. Post-Graduate Examiner, M.D. (General Medicine), St. John's Medical College
- vii. Post-Graduate Examiner, M.D. (General Medicine), JIPMER, March 17 to 18, 2014
- viii. Appraiser, DNB Family Medicine at IGMC and RI, Puducherry.
- ix. Provider of MCQ for DNB/NBE, NIEGRAHMS, JIPMER, Karnataka
- x. Thesis appraiser for Karnataka, Andhra Pradesh, Maharashtra
- xi. Officer In Charge, Dept. of Psychiatry
- xii. Member of committees: Multitasking; Screening and Geriatric OPD;
- xiii. Theory paper correction (MBBS): Balaji Vidyapeet University, Pondicherry University.
- xiv. Life Member, IAE.
- xv. Member of Doctoral Committee for PhD students in Microbiology, Biochemistry, Pharmacology
- xvi. Condemnation Officer for other departments.
- xvii. Chairman/Member of medical board.

### **Dr. M. Vivekanandan**

- i. Served as examiner for medicine practical exam for MBBS at Coimbatore Medical College
- ii. Selected as Member of the SIGNAL REVIEW PANEL of the Pharmacovigilance Programme of India (PvPI)
- iii. Member of the Expert Panel for Clinical Trial Inspections in South Zone for CDSCO (Central Drugs Standard Control Organisation)
- iv. Faculty In Charge for Tamil Nadu Chief Minister's Insurance Plan for Department of Medicine

### **Dr. T. Kadiravan**

- i. Was nominated as an expert for the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY) equipment vetting committee meeting at Government Rajaji Hospital, Madurai Medical College, Madurai on November 20, 2013
- ii. Organising Committee Member of the International Summit on Emergency Medicine and Trauma (ISEMT 2014) organized by JIPMER
- iii. Faculty in-charge of departmental equipment purchase and maintenance

### **Dr. Suryanarayana BS**

- i. Member of JIPMER security group

### **Dr. Mukta Wyawahare**

- i. Section editor of IJAMR (International Journal of Advanced Medical Research)
- ii. Part time reviewer of Gastroenterology Research and Practice
- iii. Part time reviewer of BMJ Case reports
- iv. Officer incharge of Intern and NPG related matters.
- v. Officer incharge of Post Graduate Prize examinations.
- vi. Conducted training classes for interns in Basic CPR Skills

### **Dr. Jyoti Wadhwa**

- i. Served as an Examiner in UPSC Board for GDMO interview held in New Delhi from March 24th to 28th, 2014.
- ii. Examiner for three MD thesis from Delhi University.
- iii. Peer reviewer for International Journal of Advanced Medical Research.

## Medicine

- iv. Prepared MCQs for Medicine- SR Exam 2013
- v. In charge of Medicine-Residents Log Review
- vi. Member of JIPMER Council Committee.
- vii. Conducted Medicine SR exam on 23/09/2013
- viii. Conducted OSPE for MSc Nursing students from November 14th to 16th 2013.  
Conducting classes on HIV for nurses from and outside JIPMER under GFATM program.

### **Dr. Vinod. K. V.**

- i. Organized a CME programme on Hematology on September 14th and 15th, 2013 [was treasurer for the CME programme]
- ii. Faculty for DM-Clinical Hematology programme
- iii. Member- Institute Diet Committee
- iv. Reviewer for the Journal of Pharmacology and Pharmacotherapeutics

### **Dr. Chanaveerapa Bamamigatti**

- i. Certified First Brain Death in JIPMER on December 5th, 2013 and involved in brain death certification on regular basis.
- ii. Member of JIPMER Quality Council
- iii. In-charge of matters related to Resident doctors and log book in the Department of Medicine
- iv. Incharge of ward 20
- v. Involved in modernization of ward 16

### **Dr. M. Vadivelan**

- i. Member of Student Counselling Services Committee at JIPMER
- ii. Appointed as a subject expert to contribute to the Question Bank (MCQ type) in the specialty of General Medicine by the National Board of Examinations (NBE) for Post-Graduate Entrance Examination.
- iii. Appointed as a Reviewer for the International Journal of Advanced Medical Research (IJAMR).
- iv. Appointed to the Editorial Board of International Journal of Clinical and Diagnostic Research (IJCDR).

### **Dr. Deepanjali Surendran**

- i. Faculty in-charge of the laboratory services offered by the Department of Medicine

### **Dr. Srinivas Rajagopalan**

- i. Reviewer for the following journals  
American Journal of Medicine,  
Internal Medicine Journal,  
Indian Journal for Critical Care,  
Indian Journal of Medical Research  
Lung India  
Respiratory Care,  
Rheumatology International  
Editorial Board Member: World Journal of Critical Care

### **Significant Events in the Department**

- i. A new eight bedded High Dependency Unit has started functioning from March 2014
- ii. Three new faculty members have joined the department  
Dr.M.Vivekanandan as Additional Professor  
Dr.Deepak Amalnath and Dr.Srinivas Rajagopal as Assistant Professors

# Microbiology

## FACULTY LIST

1. SENIOR PROFESSOR AND DEAN RESEARCH	:	Subhash Chandra Parija
2. SENIOR PROFESSOR AND HEAD	:	B. N. Harish
3. PROFESSOR	:	Sujatha Sistla
4. ASSOCIATE PROFESSOR	:	Jharna Mandal
5. ASSOCIATE PROFESSOR	:	Rakesh Singh
6. ASSOCIATE PROFESSOR	:	Rahul Dhodapkar
7. ASSISTANT PROFESSOR	:	Rakhi Biswas
8. ASSISTANT PROFESSOR	:	Noyal Mariya Joseph
9. ASSISTANT PROFESSOR	:	Apurba Sankar Sastry
10. ASSISTANT PROFESSOR	:	Hitender Gautam

## BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Microbiology of JIPMER evolves continuously to keep pace with the high clinical diagnostic demands. Being a part of one of the most prestigious institutes of India; department and its faculty strive hard to maintain the high standards in all its activities such as Diagnostic services, Undergraduate and Postgraduate teaching and Research. The department offers high end diagnostic facilities like real time PCR for viral infections, CD 4 counts for HIV, Molecular tests for diagnosis of tuberculosis and leptospirosis. The department has added a number of tests like PCR for HSV, Immunofluorescence assay for rickettsia and Nested-PCR assay for the diagnosis of Scrub typhus during the period 2013–2014. One of the section of the Department – State Reference Laboratory for HIV testing is Accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL). Department also has facilities for automated detection and antimicrobial susceptibility testing by BACTEC, Microscan walkaway, MGIT and BD Phoenix. Department of Microbiology has installed high through put automated ELISA system (EVOLIS ELISA system) which can run four assays at any given time.

Faculty, Ph.D. scholars and Residents of the department are also involved in cutting edge research activities. The research activities of the department are funded through various extramural and intramural research grants; the department also has many collaborative projects with other premier institutes.

## EDUCATIONAL COURSES

Department of Microbiology, JIPMER offers the following regular courses:

- i. Undergraduate Courses
  - a. MBBS

## Microbiology

- b. B.Sc. Medical Laboratory Technology (MLT)
- c. B.Sc. Nursing
- d. B.Sc. Allied Medical Sciences
- ii. Postgraduate Courses
  - a. M.D.
  - b. M.Sc. Medical Laboratory Technology (MLT)
- iii. Higher Speciality Courses
  - a. Post MD Fellowship in Tropical Parasitology
- iv. Research Courses
  - a. Ph.D.
- v. Other Courses
  - a. Medical record trainees and Medical record officers (MRT/MRO)  
Emergency Trauma Technician Courses (EMT)

## CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT

### Workshops

- i. Department of Microbiology, JIPMER organized “XII National Workshop on “Diagnostic methods in Clinical Microbiology” from November 6<sup>th</sup> to 9<sup>th</sup>, 2013 funded by National Academy of Medical Sciences, Indian Council of Medical Research, Council for Scientific and Industrial Research, Medical Council of India.
- ii. Department of Microbiology, JIPMER organized CME on “Update on Sepsis” on September 12<sup>th</sup>, 2013
- iii. Department of Microbiology, JIPMER organized “CME on “Universal work precaution and Post Exposure Prophylaxis” for staff nurses on December 6<sup>th</sup>, 2013 organized in collaboration with Pondicherry AIDS Control Society at Conference Hall of Super specialty Block, JIPMER, Puducherry.
- iv. Department of Microbiology, JIPMER organized “JIPMER Microbiology Alumini Meet” on January 5<sup>th</sup>, 2014, at Conference Hall of Super specialty Block, JIPMER, Puducherry which was attended by around 60 alumni from India and abroad.

Department of Microbiology, JIPMER organized CME on “Issues in HIV” in collaboration with the Pondicherry AIDS Control Society on January 24<sup>th</sup>, 2014 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals or medical colleges of Puducherry at Conference Hall of Super specialty Block, JIPMER, Puducherry.

### Training Programmes

- i. Department of Microbiology, JIPMER organized training on “Whole Blood Screening” for Labour Room Nurses organized from May 21<sup>st</sup> to 22<sup>nd</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- ii. Department of Microbiology, JIPMER organized training on “Whole Blood Screening” for DMCLT and STLS from May 28<sup>th</sup> to 29<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- iii. Department of Microbiology, JIPMER organized “Refresher Training in STI/RTI” for Laboratory Technician on May 30<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- iv. Department of Microbiology, JIPMER organized training on “Whole Blood Screening” for Auxiliary Nurse Midwife from July 3<sup>rd</sup> to 6<sup>th</sup>, 2013 and July 12<sup>th</sup> to 13<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- v. Department of Microbiology, JIPMER organized “Refresher Training” in HIV for Laboratory Technician from July 16<sup>th</sup> to 20<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society

- vi. Department of Microbiology, JIPMER organized “Induction Training” in HIV for Laboratory Technician from July 23<sup>th</sup> to 27<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society
- vii. Department of Microbiology, JIPMER organized “Training in STI/RTI” for Laboratory Technician on February 26<sup>th</sup>, 2014 in collaboration with Pondicherry AIDS Control Society

The Department of Microbiology, JIPMER organized training for orienting the nurses of Puducherry region of GFATM about the functions and services provided by Integrated Counseling and Testing Center in batches during the year 2013–2014.

## CONFERENCES AND CMES ATTENDED BY FACULTY

### S. C. Parija

- i. Resource person for EQAS I workshop from May 10<sup>th</sup> to 11<sup>th</sup>, 2013 and delivered a lecture on “Programme overview” for HIV laboratory technician organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society.
- ii. Resource person for training on “Whole Blood Screening” and delivered a lecture on “Programme overview” for Labour Room Nurses organized by the Department of Microbiology, JIPMER from May 21<sup>th</sup> to 22<sup>nd</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- iii. Resource person for training on “Whole Blood Screening” and delivered a lecture on “Programme overview” for DMCLT and STLS organized by the Department of Microbiology, JIPMER from May 28<sup>th</sup> to 29<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- iv. Resource person for “Refresher Training in STI/RTI” and delivered a lecture on “Programme overview” for Laboratory Technician on May 30<sup>th</sup>, 2013 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society.
- v. Attended as Chief Guest for the CME “How to succeed in publishing scientific papers” conducted on June 14<sup>th</sup>, 2013, at SRM Medical College Hospital and Research Centre, Kattankulathur, Chennai. Prof Parija delivered a key note address on Importance of scientific publications in peer reviewed journals.
- vi. Attended as Chief Guest and inaugurated the Andhra Pradesh Chapter of the Indian Academy of Tropical Parasitology held at Shri Venkateshwar Institute of Medical Sciences, Tirupathi on July 27<sup>th</sup>, 2013. Prof Parija delivered a key note address on “Recent advances in parasitic infections”.
- vii. Attended as President of Indian Academy of Tropical Parasitology (IATP) for the 7<sup>th</sup> National Conference of the IATP from September 6<sup>th</sup> to 7<sup>th</sup>, 2013 held at Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow. Professor Parija delivered Presidential Oration on “New technology, New perspectives and New approaches for diagnosis of parasitic diseases in twenty-first century”. Professor Parija also inaugurated a CME on “Parasites and human health” and delivered a talk on “Vaccine perspective of parasitic diseases”
- viii. Participated in the “Current series of MCQ review and validation” workshop held at National Board Examination office, Dwarka, New Delhi, from September 26<sup>th</sup> to 27<sup>th</sup>, 2013.
- ix. Delivered a guest lecture on “Newer concepts in diagnosis of parasitic infections” during the “World Conference of Infectious Diseases—2013” organized by Jayaa Charitable and Educational Trust, Tamil Nadu held at Chennai Trade and Convention Centre (CTCC), Chennai on December 19<sup>th</sup>, 2013.
- x. Attended as Chief Guest and inaugurated the Western Chapter of the Indian Academy of Tropical Parasitology held at TNMC and BYL Nair Hospital Mumbai on December 8<sup>th</sup>, 2013. Professor Parija delivered a key note address on “Neglected tropical diseases” during the meet.
- xi. Delivered a guest lecture on “New concepts and trends in diagnosis of parasitic infections” during the XXIV National Congress of Veterinary Parasitology, organised by the Indian Association for the Advancement of Veterinary Parasitology, on February 6<sup>th</sup>, 2014, at Mannuthy, Kerala.
- xii. Attended as Chief Guest for a workshop on “WHO net on Antimicrobial susceptibility” organized by the Indian Association of Medical Microbiologists (Pondicherry Chapter) at Manakula Vinayagar Medical College on February 8<sup>th</sup>, 2014.

- xii. Delivered a guest lecture on “Trends in diagnosis of parasitic infections” during the first CME at AIIMS, Raipur on “The Menace of Emerging and Re-Emerging Microbes” held on February 15<sup>th</sup>, 2014

### B. N. Harish

- i. Resource person for CME on “Issues in HIV” organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society on January 24<sup>th</sup>, 2014 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals or medical colleges of Puducherry at Conference Hall of Super specialty Block, JIPMER, Puducherry. Prof Harish also delivered a lecture on. “Universal and Standard precaution” in the CME.
- ii. Resource person for XII National Workshop on “Diagnostic Methods in Clinical Microbiology” organized by the Department of Microbiology, JIPMER, from 6<sup>th</sup> to 9<sup>th</sup> November 2013.
- iii. Resource person for training on “Whole Blood Screening” and delivered a lecture on “Programme overview” for Auxiliary Nurse Midwife organized by the Department of Microbiology, JIPMER from July 3<sup>rd</sup> to 6<sup>th</sup>, 2013 and July 12<sup>th</sup> to 13<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- iv. Resource person for “Refresher Training” in HIV and delivered a lecture on “Programme overview” for Laboratory Technician organized by the Department of Microbiology, JIPMER from 16<sup>th</sup> to 20<sup>th</sup> July, 2013 in collaboration with Pondicherry AIDS Control Society.
- v. Resource person for “Induction Training” in HIV and delivered a lecture on “Programme overview” for Laboratory Technician organized by the Department of Microbiology, JIPMER from July 23<sup>rd</sup> to 27<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- vi. Resource person for EQAS II workshop from November 29<sup>th</sup> to 30<sup>th</sup>, 2013 and delivered a lecture on “Programme overview” for HIV laboratory technician organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society.
- vii. Resource person for CME on “Universal work precaution and Post Exposure Prophylaxis” and delivered a lecture on “Standard work precaution” for staff nurses on 6<sup>th</sup> December, 2013 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society at Conference Hall of Super specialty Block, JIPMER, Puducherry.
- viii. Resource person for “Training in STI/RTI” and delivered a lecture on “Programme overview” for Laboratory Technician on February 26<sup>th</sup>, 2014 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society.
- ix. Attended XXXVII National Conference of Indian Association of Medical Microbiologists MICROCON-2013, organized by Nizam’s Medical Institute at Hyderabad from November 20<sup>th</sup> to 24<sup>th</sup>, 2013. Prof BN Harish was nominated as Referee for The Best Poster Presentation Award.
- x. Attended 48<sup>th</sup> US-Japan panel conference of cholera and other bacterial enteric infection held at Dhaka, Bangladesh organized by U.S.-Japan Cooperative Medical Sciences Program (CMSP), the U.S. National Institute of Allergy and Infectious Diseases (NIAID) from February 9<sup>th</sup> to 13<sup>th</sup>, 2014 and presented a poster entitled, “Transconjugation and outer-membrane protein study of carbapenem resistant strains belonging to the family Enterobacteriaceae”
- xii. Attended Karnataka MICROCON 2014, XVIII Annual Conference of IAMM-Karnataka Chapter, “Rickettsial diseases—An overview” held at Manipal University from February 22<sup>nd</sup> to 23<sup>rd</sup>, 2014.

### S. Sujatha

- i. Attended and delivered a guest lecture on “The challenge of multi drug resistant organisms: detection and clinical implications” during a CME on antimicrobial therapy organized by Indira Gandhi Medical College and Research Institute, Puducherry on November 1<sup>st</sup>, 2013
- ii. Resource person in a workshop on “Microbiology annual revision course” from September 21<sup>st</sup> to 23<sup>rd</sup>, 2013 held at Sri Ramachandra Medical College and Research Institute, Porur, Chennai
- iii. Chaired a scientific session during a CME on HIV TB co infection organized by Department of Microbiology, Pondicherry Institute of Medical Sciences, Puducherry in September 28<sup>th</sup>, 2013

- iv. Resource person for XII National Workshop on “Diagnostic Methods in Clinical Microbiology” organized by the Department of Microbiology, JIPMER, from November 6<sup>th</sup> to 9<sup>th</sup>, 2013
- v. Attended the XXXVII National Conference of Indian Association of Medical Microbiologists organized by Nizam’s Institute of medical Sciences, Hyderabad from November 21<sup>st</sup> to 24<sup>th</sup>, 2013
- vi. Resource person and chaired a session in CME on “Issues in HIV” organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society on January 24<sup>th</sup>, 2014 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals or medical colleges of Puducherry at Conference Hall of Super specialty Block, JIPMER, Puducherry.

### **Jharna Mandal**

- i. Resource person for XII National Workshop on “Diagnostic Methods in Clinical Microbiology” organized by the Department of Microbiology, JIPMER, from November 6<sup>th</sup> to 9<sup>th</sup>, 2013
- ii. Resource person for the Interns Orientation Programme for quality care in January 2014 held at Mini Auditorium, JIPMER Academic Centre, JIPMER

### **Rakesh Singh**

- i. Resource person for CME on “Issues in HIV” organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society on January 24<sup>th</sup>, 2014 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals or medical colleges of Puducherry at Conference Hall of Super specialty Block, JIPMER, Puducherry. Dr. Rakesh also delivered a lecture on. “Laboratory tests for monitoring ART response” in the CME.
- ii. Resource person for XII National Workshop on “Diagnostic Methods in Clinical Microbiology” organized by the Department of Microbiology, JIPMER, from November 6<sup>th</sup> to 9<sup>th</sup>, 2013.
- iii. Resource person for EQAS I workshop from May 10<sup>th</sup> to 11<sup>th</sup>, 2013 and EQAS II workshop from November 29<sup>th</sup> to 30<sup>th</sup>, 2013 and delivered a lecture on “Laboratory diagnosis of HIV” for laboratory technician organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society.
- iv. Resource person for training on “Whole Blood Screening” and delivered a lecture on “Laboratory diagnosis of HIV and Syphilis” for Labour Room Nurses organized by the Department of Microbiology, JIPMER from May 21<sup>st</sup> to 22<sup>nd</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- v. Resource person for training on “Whole Blood Screening” and delivered a lecture on “Laboratory diagnosis of HIV and Syphilis” for DMCLT & STLS organized by the Department of Microbiology, JIPMER from May 28<sup>th</sup> to 29<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- vi. Resource person for “Refresher Training in STI/RTI” and delivered a lecture on “Microbiology and clinical features of genital discharge” for Laboratory Technician on May 30<sup>th</sup>, 2013 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society.
- vii. Resource person and delivered lecture on “Rational use of Lab services” in PG Orientation Program on October 9<sup>th</sup>, 2013 for DM/MCh Superspecialty Course postgraduate students conducted by Department of Medical Education held at JIPMER Academic Centre, JIPMER
- viii. Resource person for CME on “Universal work precaution and Post Exposure Prophylaxis” and delivered lecture on “Waste segregation and disposal” for staff nurses on December 6<sup>th</sup>, 2013 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society at Conference Hall of Super specialty Block, JIPMER, Puducherry.
- ix. Resource person for workshop on B.Sc. (Allied Medical Sciences) courses curricula on January 25, 2014 held at JIPMER Academic Centre.
- x. Resource person for “Training in STI/RTI” and delivered lecture on “Laboratory test for STI/RTI-Microscopy” for Laboratory Technician on February 26<sup>th</sup>, 2014 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society.

## Microbiology

- xi. Attended NACO sponsored “Laboratory techniques in STIs/RTIs” from August 20<sup>th</sup> to 21<sup>st</sup>, 2013 held at Institute of Venereology and Department of Serology, Madras Medical College, Chennai.
- xii. Attended WHO sponsored “Laboratory Diagnostic Techniques for Gonococcal Antimicrobial Surveillance Programme (GASP)” from September 3<sup>rd</sup> to 5<sup>th</sup>, 2013 at V.M. Medical College and Safdarjung Hospital, New Delhi.
- Xiii. Attended “6<sup>th</sup> Annual workshop on basic and Molecular Diagnostic in Mycology” from October 26<sup>th</sup> to 29<sup>th</sup>, 2013 at Sri Ramachandra Medical College and Research Institute, Chennai.
- xiv. Attended “Training programme on HIV-TB co-ordination” organized by Pondicherry AIDS Control Organization on November 28<sup>th</sup>, 2013 at Pondicherry State Health Mission, Old Maternity Hospital Complex, Puducherry.
- xv. Attended CME on “HIV/AIDS Indian scenario on prevalence and control strategies” on December 14, 2013 held at Sri Manakula Vinayagar Medical College and Hospital, Kalitheerthakuppam, Puducherry.
- xvi. Attended “Orientation and implementation of ISO 15189:2012 Quality Standards in HIV Testing Reference Laboratories” from February 19<sup>th</sup> to 21<sup>st</sup>, 2014 organized by NACO at Puducherry.
- xvii. Attended AMR Surveillance Networks for the bacterial and fungal infections on March 26<sup>th</sup>, 2013 organized by ICMR at National Institute of Epidemiology, Chennai.
- xviii. Resource person for training on orienting nurses of Puducherry region of GFATM about the functions and services of Integrated Counseling and Testing Center on January 23<sup>rd</sup> and 30<sup>th</sup>, 2014 organized by the College of Nursing in collaboration with Pondicherry AIDS Control Society.

**Rahul Dhodapkar**

- i. Resource person for CME on “Issues in HIV” organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society on January 24<sup>th</sup>, 2014 for junior and senior residents, medical officers, specialist of JIPMER and other hospitals or medical colleges of Puducherry at Conference Hall of Super specialty Block, JIPMER, Puducherry. Dr. Rahul also delivered a lecture on. “Hospital waste management” in the CME.
- ii. Resource person for XII National Workshop on “Diagnostic Methods in Clinical Microbiology” organized by the Department of Microbiology, JIPMER, from November 6<sup>th</sup> to 9<sup>th</sup>, 2013
- iii. Resource person for training on “Whole Blood Screening” and delivered a lecture on “Laboratory diagnosis of HIV and Syphilis” for Auxiliary Nurse Midwife organized by the Department of Microbiology, JIPMER from July 3<sup>rd</sup> to 6<sup>th</sup>, 2013 and July 12<sup>th</sup> to 13<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- iv. Resource person for “Refresher Training” in HIV and delivered a lecture on “Detection of HIV infection, HIV testing protocol and strategies along with total quality management” for Laboratory Technician organized by the Department of Microbiology, JIPMER from July 16<sup>th</sup> to 20<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- v. Resource person for “Induction Training in HIV and delivered a lecture on “Detection of HIV infection, HIV testing protocol and strategies along with total quality management” for Laboratory Technician organized by the Department of Microbiology, JIPMER from July, 23<sup>rd</sup> to 27<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society.
- vi. Attended the CME on “How To Succeed In Publishing Scientific Papers” organized by Medical Education Unit of SRM University and Indian Academy of Tropical Parasitology on June 14<sup>th</sup>, 2013 held at SRM Medical College, Chennai. Dr Rahul delivered a guest lecture on “Plagiarism in Publications”.
- vii. Attended the inaugural conference of Western chapter of Indian Academy of Tropical Parasitology from December 7<sup>th</sup> to 8<sup>th</sup>, 2013 organized by TN Medical College and BYL Nair Hospital and Indian Academy of Tropical Parasitology held at TN Medical College, Mumbai. Dr. Rahul delivered a lecture on “Interesting cases in Parasitology”



- viii. Attended the World Conference of Infectious Diseases organized by Jayaa Charitable and Educational Trust, Tamil Nadu held at World Trade Center, Chennai on December 19<sup>th</sup>, 2013 and delivered a lecture on “Free Living Amoebae” in the CME on Tropical Parasitic Diseases.
- ix. Resource person for workshop on B.Sc. MLT courses curricula on January 25<sup>th</sup>, 2014 held at JIPMER Academic Centre.
- x. Resource person for “Training in STI/RTI” and delivered lecture on “Biomedical waste management” for Laboratory Technician on February 26<sup>th</sup>, 2014 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society
- xi. Attended 7<sup>th</sup> Annual Congress of Indian Academy of Tropical Parasitology organized by Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow from September 7<sup>th</sup> to 8<sup>th</sup>, 2013
- xii. Attended CME programme on HIV TB co infection organized by Department of Microbiology, Pondicherry Institute of Medical Sciences under auspices of Indian Association of Medical Microbiologists (Puducherry Chapter) on September 28<sup>th</sup>, 2013
- xiii. Attended the Clinical Microbiology Workshop and Microbiology FRC Path Primer organized by Tata Medical Centre, Kolkata from October 26<sup>th</sup> to 27<sup>th</sup>, 2013.
- xiv. Attended the XXXVII National Conference of Indian Association of Medical Microbiologists organized by Nizam’s Institute of Medical Sciences, Hyderabad from November 21<sup>th</sup> to 24<sup>th</sup>, 2013

### **Noyal Mariya Joseph**

- i. Resource person for “Refresher Training” in HIV and delivered a lecture on “Collection, transport and storage of blood sample, Performance of ELISA and External quality assessment” for Laboratory Technician organized by the Department of Microbiology, JIPMER from July 16<sup>th</sup> to 20<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society
- ii. Resource person for “Induction Training” in HIV and delivered a lecture on “Collection, transport and storage of blood sample, Performance of ELISA and External quality assessment” for Laboratory Technician organized by the Department of Microbiology, JIPMER from July 23<sup>th</sup> to 27<sup>th</sup>, 2013 in collaboration with Pondicherry AIDS Control Society
- iii. Resource person for “Training in STI/RTI” and delivered lecture on “Disinfection and Universal work precaution” for Laboratory Technician on February 26<sup>th</sup>, 2014 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society.
- iv. Resource person for XII National Workshop on “Diagnostic Methods in Clinical Microbiology” organized by the Department of Microbiology, JIPMER, from November 6<sup>th</sup> to 9<sup>th</sup>, 2013.

Attended 67<sup>th</sup> National Course on Educational Science for Teachers of Health Professionals from September 12<sup>th</sup> to 21<sup>th</sup>, 2013 organized by Department of Medical Education, JIPMER.

### **Apurba Sankar Sastry**

- i. Resource person for EQAS II workshop from November 29<sup>th</sup> to 30<sup>th</sup>, 2013 and delivered a lecture on “Collection, transport and storage of specimens for HIV testing” for HIV laboratory technician organized by the Department of Microbiology, JIPMER in collaboration with the Pondicherry AIDS Control Society.
- ii. Resource person for “Training in STI/RTI” and delivered lecture on “Understanding common STI/RTI” for Laboratory Technician on February 26<sup>th</sup>, 2014 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society.
- iii. Resource person for XII National Workshop on “Diagnostic Methods in Clinical Microbiology” organized by the Department of Microbiology, JIPMER, from November 6<sup>th</sup> to 9<sup>th</sup>, 2013.
- iv. Attended CME on Training workshop on Dengue for Microbiologists/Pathologists, organised by National Vector Borne Disease Control Programme (NVBDCP) held at King Institute of Preventive and Research, Chennai on November 12<sup>th</sup>, 2013.

## Microbiology

- v. Attended 69<sup>th</sup> National Course on Educational Science for Teachers of Health Professionals from March 6 to 15, 2014, JIPMER organized by Department of Medical Education JIPMER.

**Hitender Gautam**

- i. Resource person for “Training in STI/RTI” and delivered lecture on “Laboratory test for STI/RTI- Serology” for Laboratory Technician on February 26<sup>th</sup>, 2014 organized by the Department of Microbiology, JIPMER in collaboration with Pondicherry AIDS Control Society

**Research Projects**

S. No.	Name of the Principal Investigator	Title of Project	Duration of Project (From To)	Funding Agency and Total Funds Sanctioned	Collaborating Institution/ Department	Status (Completed in FY 2013-2014 or Ongoing)
1.	Dr. S. C. Parija	Nodal coordinating centre for surveillance of antimicrobial resistance in <i>Staphylococcus</i> species	2013-2018	Indian Council of Medical Research ₹2.77 crores	PGIMER, Chandigarh, AIIMS New Delhi, CMC Vellore	Ongoing
2.	Dr. S. C. Parija	Establishment of Regional Virology Network Laboratory Permanent DHR facility	2013 onwards	Department of Health Research ₹15 crores	-	Ongoing
3.	Dr. S. C. Parija	Cloning, Over expression and evaluation of recombinant antigens for immunodiagnosis of Neurocysticercosis	2013-2016	Department of Science and Technology ₹50 lakhs	-	Ongoing
4.	Dr. S. C. Parija	A multicentric hospital based study on diagnosis of <i>Entamoeba histolytica</i> , <i>E. dispar</i> and <i>E. moshkovskii</i> in India	2013-2016	Indian Council of Medical Research ₹28 lakhs	TNMC and BYL Nair, Mumbai PGIMER Chandigarh, BHU, Varanasi	Ongoing
5.	Dr. B. N. Harish	Characterization of genes responsible for carbapenem resistance in clinical and environmental samples	2012-2015	Indian Council of Medical Research ₹32 Lakhs	-	Ongoing
6.	Dr. B. N. Harish	National programme on containment of anti-microbial resistance	2012-2017	National Centre for Disease Control		Ongoing

				Ministry of Health and Family welfare ₹6.5 Lakhs		
7.	Dr. B. N. Harish	Rapid diagnosis of rickettsial infections by Real-Time PCR, duplex Real-Time PCR and serological test.	2013–2016	Indian Council of Medical Research ₹17.5 Lakhs	–	Ongoing
8.	Dr. S. Sujatha	Development of a simple, rapid, cost effective loop mediated isothermal amplification assay for viral respiratory tract infections in humans	2014–2015	Intramural ₹3,50,000	Nil	Ongoing
9.	Dr. S. Sujatha	Antibody response to influenza viruses in patients with chronic respiratory diseases	2014–2015	Nil	Department of Medicine, JIPMER	Ongoing
10.	Dr. Rakesh Singh	Antifungal Susceptibility Testing and Genotyping of the Cryptococcal isolates from Delhi and other parts of India	2013–2015	Department of Biotechnology, Ministry of Science and Technology, Government of India ₹11.25 Lakhs	AIIMS, New Delhi, UCMS and GTB Hospital, New Delhi MKCG College Berhampur, Orissa, NEIGRIHMS, Shillong	Ongoing

## PUBLICATIONS

### Journals

1. Ajayan P, Krishnamurthy S, Biswal N, Mandal J. Clinical spectrum and predictive risk factors of major infections in hospitalized children with nephrotic syndrome. *Ind. Pediatr.* 2013;50(8):779–781.
2. Bhaskar MM, Anand R, Harish BN. Prevalence of blaNDM-1 Producing Blood Isolates of Escherichia Coli, Klebsiella species and Enterobacter Species in a Tertiary Care Centre in South India. *J. Microbiol. Res. Rev.* 2013;1(6):61–68.
3. Biswas R, Parija SC. Latex agglutination test for the detection of cysticercus antigen in the urine for the diagnosis of neurocysticercosis. *Trop. Parasitol.* 2013;3(2):168–169.
4. Borkotoky D, Panda SK, Sahoo GR, Parija SC. Genotoxicity of nimesulide in Wistar rats. *Drug. Chem. Toxicol.* 2014;37(2):178–183
5. Chaya D, Parija SC. Evaluation of a newly designed sandwich enzyme linked immunosorbent assay for the detection of hydatid antigen in serum, urine and cyst fluid for diagnosis of cystic echinococcosis. *Trop. Parasitol.* 2013;3(2):125–131.

6. Dash JR, Parija SC. Spasmolytic effect of curcumin on goat ruminal artery is endothelium independent and by activation of sGC. *Res. Vet. Sci.* 2013;95(2):588–593.
7. DR Chaya, Parija SC. Performance of polymerase chain reaction for the diagnosis of cystic echinococcosis using serum, urine, and cyst fluid samples. *Trop. Parasitol.* 2014;4(1): 43–46
8. Geetha VK, Yugendran T, Srinivasan R, Harish BN. Plasmid-mediated quinolone resistance in typhoidal *Salmonellae*: a preliminary report from South India. *Ind. J. Med. Microbiol.* 2014;32(1):31–34.
9. Ira P, Sujatha S, Chandra PS. Virulence factors in clinical and commensal isolates of *Enterococcus* species. *Ind. J. Pathol. Microbiol.* 2013;56(1):24–30.
10. Jharna Mandal, Parija SC. Ethics of sponsored research. *Trop. Parasitol.* 2014, 4(1): 2–3.
11. Joseph NM, Sistla S, Dutta TK, Badhe AS, Chandra PS. Role of clinical diagnosis of ventilator-associated pneumonia. *Am. J. Infect. Control.* 2013;41(5):471.
12. Joshi S, Ray P, Manchanda V, Bajaj J, Gautam V, Goswami P, Gupta V, Harish BN, Kagal A, Kapil A, Rao R, Rodrigues C, Sardana R, Devi KhS, Sharma A. Methicillin resistant *Staphylococcus aureus* (MRSA) in India: prevalence and susceptibility pattern. *Ind. J. Med. Res.* 2013;137(2):363–369.
13. Krishnamurthy S, Mahadevan S, Mandal J, Basu D. Leptospirosis in association with hemophagocytic syndrome: a rare presentation. *Ind. J. Pediatr.* 2013;80(6):524–525.
14. Kumar SG, Adithan C, Harish BN, Sujatha S, Roy G, Malini A. Antimicrobial resistance in India: A review. *J. Nat. Sci. Biol. Med.* 2013;4(2):286–291.
15. Madhugiri VS, Singh R, Vyavahare M, Vijayahari R, Sasidharan GM, Kuma VR, Jacob S, Verma SK, Ananthkrishnan R, Yadav AK, Gundamaneni SK. Opportunistic *Fonsecaea pedrosoi* brain abscess in a patient with non-cirrhotic portal fibrosis-induced hypersplenism- a novel association. *Br.J. Neurosurg.* 2013;27(5):690–693.
16. Maharajan K, Patro DK, Menon J, Hariharan AP, Parija SC, Poduval M, et al. Serum Procalcitonin is a sensitive and specific marker in the diagnosis of septic arthritis and acute osteomyelitis. *J. Orthop. Surg. Res.* 2013;8:19.
17. Mandal J, Parija SC. Ethics of authorship in scientific publications. *Trop. Parasitol.* 2013;3(2):104–105.
18. Mandal J, Parija SC. Ethics of involving animals in research. *Trop. Parasitol.* 2013;3(1):4–6.
19. Mandal J, Sangeetha V, Nivedithadivya, Das A, Parija SC. Characterization of extended-spectrum beta-lactamase-producing clinical isolates of *Shigella flexneri*. *J. Health. Popul. Nutr.* 2013;31(3):405–408.
20. Narayanan P, Rustagi RS, Sivaprakasam P, Subramanian M, Parameswaran S, Mandal J, et al. Haemolytic uraemic syndrome associated with *Pseudomonas aeruginosa* sepsis. *J. Med. Microbiol.* 2013;62(Pt 11):1760–1762.
21. Parija SC. Blastocystis: Status of its pathogenicity. *Trop. Parasitol.* 2013;3(1):1.
22. Parija SC. Cestode infections: A brief insight. *Trop. Parasitol.* 2013;3(2):99.
23. Parija SC. Illustrated Keys: Some Mosquitoes of Peninsula Malaysia. *Trop. Parasitol.* 2014, 4(1): 70
24. Parija SC, Jeremiah S. Blastocystis: Taxonomy, biology and virulence. *Trop. Parasitol.* 2013;3(1):17–25.
25. Parija SC. *Plasmodium knowlesi* and other blood parasites. *Trop. Parasitol.* 2014, 4(1): 1
26. Parija SC, Ponnambath DK. Laboratory diagnosis of *Taenia asiatica* in humans and animals. *Trop. Parasitol.* 2013;3(2):120–124.
27. Praharaj I, Sujatha S, Ashwini MA, Parija SC. Co-infection with *Nocardia asteroides* Complex and *Strongyloides stercoralis* in a Patient with Autoimmune Hemolytic Anemia. *Infection* 2014;42(1):211–214.
28. Praharaj I, Sujatha S, Parija SC, Mahadevan S. Unusual manifestation of *Salmonella enterica* serotype enteritidis infection in a case of Langerhans cell histiocytosis. *Ind. J. Med. Microbiol.* 2013;31(4):409–411.
29. Praharaj I, Sujatha S, Parija SC. Phenotypic & genotypic characterization of vancomycin resistant *Enterococcus* isolates from clinical specimens. *Ind. J. Med. Res.* 2013;138(4):549–556.

30. Sivaranjini R, Jaisankar TJ, Thappa DM, Kumari R, Chandrasekhar L, Malathi M, et al. Trichomoniasis: How do we diagnose in a resource poor setting? *Ind. J. Sex. Transm. Dis.* 2013;34(1):25–31.
31. SS Jeremiah, Anand B Janagond, Parija SC. Challenges in diagnosis of Plasmodium knowlesi infections. *Trop. Parasitol.* 2014, 4(1): 25–30.
32. Sugi Subramaniam RV, Karthikeyan VS, Sistla SC, Ali SM, Sistla S, Ram D, et al. Melioidosis presenting as pseudomyxoma peritonei: yet another pretense of the great mimicker: an unreported entity. *Surg Infect (Larchmt)* 2013;14(4):415–417.
33. Sugi Subramaniam RV, Karthikeyan VS, Sistla SC, Ali SM, Sistla S, Vijayaraghavan N, et al. Intra-abdominal melioidosis masquerading as a tubercular abdomen: report of a rare case and literature review. *Surg. Infect. (Larchmt)* 2013;14(3):319–321.
34. Thomas D, Parameswaran N, Harish BN. Catheter related blood stream infections in the paediatric intensive care unit: A descriptive study. *Ind. J. Crit. Care. Med.* 2013;17(3):135–139.

## BOOKS

### S.C. Parija

- i. Subash Chandra Parija. *Textbook of Medical Parasitology: Protozoology & Helminthology (Text and Colour Atlas)*. 4th ed. New Delhi: AIPD; 2013.
- ii. Tarun Kumar Dutta, Subhash Chandra Parija, Jamini Kanta Dutta. *Emerging and re-emerging infectious diseases*. 1st ed. New Delhi: Jaypee Brothers Medical Publishers (P) ltd; 2013.

### Apurba Sankar Sastry

- i. Apurba S.S, Sandhya B.K. *Review of Microbiology and Immunology*. 3<sup>rd</sup> ed. New Delhi: Jaypee Brothers Medical Publishers (P) LTD; 2014.
- ii. Apurba S.S, Sandhya B.K. *Microbiology for FMGE (Foreign Medical Graduate Examination)*. 2nd ed. New Delhi: AITBS Publication; 2014.

## BOOK CHAPTERS

### S.C. Parija

- i. Parija SC, Ira Praharaj. Neurocysticercosis: An Emerging Waterborne Parasitic Disease of Public Health Importance. In: *Water and Health*; 2014. pp. 191–199

### B. N. Harish

- i. Belgode N. Harish and Godfred A. Menezes. Determination of Antimicrobial Resistance in *Salmonella* spp. In: Walker JM, editor. *Methods in Molecular Biology*. USA: Humana Press; 2014.

### Jharna Mandal

- i. Mandal Jharna. Public Health laboratories, block I, Units 1 & 2, Chapter 4A. Course for Postgraduate Diploma course in Applied Epidemiology, Institutional and Technical Support Project, National Institute of Health & Family Welfare/European Union/ Futures Group, New Delhi. 2013.
- ii. Validate field findings, block II, Units 3&4, Chapter 4B. Course for Postgraduate Diploma course in Applied Epidemiology, Institutional and Technical Support Project, National Institute of Health and Family Welfare/European Union/Futures Group, New Delhi. 2013.

## PATIENT CARE SERVICES

### **Laboratory**

To report high load of the clinical samples and to decrease turn around time automated systems are installed in the Department of Microbiology. Automated detection and antimicrobial susceptibility testing is performed by BACTEC, Microscan walkaway, MGIT and BD Phoenix. Department has installed high through put automated ELISA system (EVOLIS ELISA system) which can run four assays at any given time.

Department of Microbiology routinely performs molecular diagnosis of TB meningitis, HSV encephalitis, leptospirosis, amoebiasis and neurocysticercosis by PCR. Tests that have been added in the recent years to the meet the diagnostic needs of the hospital include the PCR for HSV, Immunofluorescence assay for rickettsia, Nested-PCR assay for the diagnosis of Scrub typhus, QBC (Quantitative Buffy Coat) technique for the detection of haemo-parasites, antigen detection tests for hydatid disease and neurocysticercosis, modified acid-fast stain for intestinal coccidian parasites, Western Blot for neurocysticercosis and hydatid disease, tests for anti-nuclear antibody, IgM ELISA for brucellosis, IgM ELISA and LAT for leptospirosis, new antibiotic panel for susceptibility testing, antigen detection for *Cryptococcus neoformans*. Also in line are the ELISA for various Hepatitis viruses, Hepatitis B markers, IgM ELISA for Rubella, CMV, Herpes. Immunofluorescence staining based antigen detection assays, for diagnosis of viral respiratory tract infections and Herpes virus infection are also available Rotavirus antigen detection is done by latex agglutination test. The department also has a tissue culture laboratory where routinely Vero and MDCK cell lines are maintained and culture of Herpes virus is performed. Department of Microbiology, JIPMER has also scaled up the surveillance services of the hospital water testing as an ALERT for the possible outbreak of water borne diseases. Regional Influenza Laboratory has been established for diagnosis of all kinds of influenza like illnesses by Real time PCR. State Reference Laboratory for HIV testing is granted Accreditation by National Accreditation Board for Testing and Calibration Laboratories (NABL).

To conclude, the Department of Microbiology at JIPMER is in the process of development. The department is making an all-round effort to provide newer diagnostic services for better patient care, upgraded training program for the students: both undergraduates and postgraduates, and a congenial environment for research and innovation.

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

### **S.C. Parija**

#### **Fellowships**

FRCPath	Fellow, Royal College of Pathologists, UK
FAMS	Fellow, National Academy of Medical Sciences
FICPath	Fellow, Indian College of Pathologists
FISCD	Fellow, Indian Society for Malaria and other Communicable Diseases
FABMS	Fellow, Indian Association of Biomedical Scientists
FIMSA	Fellow, International Medical Science Academy
FICAI	Fellow, Indian College of Allergy and Applied Immunology
FIAVP	Fellow, Indian Association of Development of Veterinary Parasitology

#### **Memberships in Professional Associations**

##### **Life Member**

- i. Indian Association for Development of Veterinary Parasitology
- ii. Indian Association of Medical Microbiologists

- iii. Indian Society for Parasitology
- iv. Indian Association of Pathologists and Microbiologists
- v. Indian Immunology Society
- vi. Indian Association of Malaria and other Communicable Diseases
- vii. Indian College of Allergy and Immunology
- viii. Indian Academy of Allergy
- ix. Indian Association of Biomedical Scientists

### Editorial Ship

#### Editor-in-Chief

- i. Internet Journal of Parasitic Diseases, published from Texas, The USA.
- ii. Tropical Parasitology, published by the Indian Academy of Tropical parasitology.

#### Editor

- i. Topical series on HIV/AIDS and opportunistic diseases and co-infection, published by BMC UK.

#### Associate Editor

- i. BMC Infectious Diseases published by BMC UK.
- ii. BMC Journal of Case Reports (JCR) published by BMC UK.  
BMC Research Notes published by BMC UK.

### *B. N. Harish*

#### Fellowship

- i. International Medical Science Academy.

### *Memberships in Professional Associations*

#### Life Member

- i. Indian Association of Medical Microbiology.
- ii. European Society of Clinical Microbiology and Infectious Diseases.
- iii. American Society for Microbiology.
- iv. Indian Network for Surveillance of Antimicrobial Resistance.  
Society for Indian Human and Animal Mycologists.

### *S. Sujatha*

### *Memberships in Professional Associations*

#### Life Member

- i. Indian Association of Medical Microbiology.
- ii. Society for Indian Human and Animal Mycologists.

### *Editorial ships*

#### Associate Editor

International Journal of Advanced Medical Research Member.

### *Jharna Mandal*

### *Memberships in Professional Associations*

#### Life Member

- i. Indian Association of Medical Microbiology (IAMM).

## Microbiology

- ii. Society for Indian Human and Animal Mycologists (SIHAM).
- iii. International society for infectious diseases (ISID).
- iv. Indian Academy of Tropical Parasitology (IATP).
  - v. JIPMER Scientific Society (JSS).
- vi. European Society for Clinical Microbiology and Infectious Diseases (ESCMID).

### **Editorial Ships**

#### **Editor**

Indian Academy of Tropical Parasitology

### **Rakesh Singh**

Memberships in Professional Associations

#### **Life Member**

- i. Indian Association of Medical Microbiology (IAMM).
- ii. Indian Academy of Tropical Parasitology (IATP).  
Society for Indian Human and Animal Mycologists (SIHAM)

### **Rahul Dhodapkar**

Memberships in Professional Associations

#### **Life Member**

- i. Indian Association of Medical Microbiology (IAMM)
- ii. Indian Academy of Tropical Parasitology (IATP)

#### **Corresponding Member**

International Society for Infectious Diseases (ISID).

### **Rakhi Biswas**

Memberships in Professional Associations

#### **Life Member**

- i. Indian Association of Medical Microbiology (IAMM)
- ii. Indian Academy of Tropical Parasitology (IATP)

### **Noyal Mariya Joseph**

Memberships in Professional Associations

#### **Life Member**

- i. Indian Association of Medical Microbiology (IAMM)
- ii. Indian Academy of Tropical Parasitology (IATP)

### **Apurba Sankar Sastry**

Memberships in Professional Associations



**Life Member**

- i. Indian Association of Medical Microbiology (IAMM)
- ii. Indian Academy of Tropical Parasitology (IATP)

**Hitender Gautam**

Memberships in Professional Associations

**Life Member**

- i. Indian Association of Medical Microbiology (IAMM)—Delhi Chapter

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

**S.C. Parija****Administrative Assignments**

- i. Member, World Health Organization –Food and Agriculture Organisation (WHO-FAO), International Committee on Food Safety for Parasites
- ii. Member, WHO committee on Global prevalence of food-borne microbial diseases
- iii. Member, Board of Examiners, University of Malaya, Kuala Lumpur, Malaysia
- iv. President, Indian Academy of Tropical Parasitology
- v. President, Indian Association of Medical Microbiologist, Puducherry Chapter. 2013
- vi. Member, Selection Committee, SGPGIMS, Lucknow
- vii. Member, Selection Committee, Postgraduate Institute of Medical Sciences, Chandigarh
- viii. Member, Governing Board, JIPMER
- ix. Dean Research
- x. Vice-chairperson, JIPMER Scientific Advisory Committee

**Guideship**

- i. Guide for the M.D dissertation on “Detection of molecular markers of chloroquine resistance in *Plasmodium falciparum*”
- ii. Guide for the Ph.D. thesis on “Development and evaluation of recombinant antigens for sero diagnosis of amoebiasis”
- iii. Guide for the Ph.D. thesis on “Identification and evaluation of diagnostic target by phage display library for neurocysticercosis”
- iv. Guide for the Ph.D. thesis on “Phage display library for identification of novel immunodiagnostic target in *Entamoeba histolytica*”
- v. Guide for the Ph.D. thesis on “Development of immunochromatographic assay for the differential diagnosis of chloroquine resistant strains of *Plasmodium falciparum* from non-resistant strains”
- vi. Guide for the Ph.D. thesis on “Development of immunochromatographic assay for the detection of E7 oncoprotein expression of human papilloma virus type 16 and 18 from cervical cancer and high grade squamous intra-epithelial lesion cases”

**Patient Care**

In-charge of the laboratory reporting in the diagnostic Parasitology section

**B.N. Harish****Administrative Assignments**

- i. Officer-in-charge of JIPMER Central Library.
- ii. Faculty in-charge, Central Animal House, JIPMER.
- iii. Officer-in-charge for Regional Influenza Laboratory.
- iv. Laboratory Director of State Reference Laboratory for HIV.
- v. Officer-in-charge of Integrated Counseling and Testing Centre.
- vi. Member of the core committee in JITS
- vii. Overall-all-In-charge of the laboratory services in the Department of Microbiology

**MCI Inspectorships**

- i. Appointed as MCI inspector at RNT Medical College, Udaipur, Rajasthan in April 2013.
- ii. Appointed as MCI inspector for the recognition of MD course in Microbiology at SDM College of Medical Sciences and Hospital, Dharwad, Karnataka.
- iii. Appointed as MCI inspector for GMVRS Medical College Dharpur, Pathan, Gujarat.

**Guideship**

- i. Guide for the M.D. dissertation on “Role of Real-Time PCR, IgM ELISA and culture in the diagnosis of leptospirosis.”
- ii. Guide for the M.D. dissertation on “Bacteriological profile of catheter related bloodstream infections”
- iii. Guide for the Ph.D. thesis on “Genetic study of quinolone resistance in clinical isolates of gram negative bacilli- with particular reference to plasmid mediated resistance”
- iv. Guide for the Ph.D. thesis on “Speciation, antimicrobial resistance and virulence factors in clinical isolates of *Pseudomonas* spp.”

**Examinership**

- i. Internal Examiner for the M.D. (Microbiology) Degree Examination March/April 2014

**Patient Care**

- i. In charge of the laboratory reporting in the diagnostic Bacteriology of Blood Culture and Sterile Body Fluid and Immunology sections.
- ii. Introduced Nested PCR assay for Rickettsial diagnosis

**S. Sujatha****Administrative Assignments**

- i. Faculty Academic affairs (M.B.B.S).
- ii. Chairman of condemnation committee.
- iii. Member of the institutional biosafety committee.
- iv. Member of DC committee for 5 Ph.D. students, 4 from JIPMER and one from Sri SatyaSai Medical College, Chennai.

**Guideship**

- i. Guide for the MD dissertation on “Multiplex PCR for the simultaneous detection of *Streptococcus pneumoniae*, *Haemophilus influenzae* and *Neisseria meningitidis* for the rapid diagnosis of acute pyogenic meningitis”.
- ii. Guide for the Ph.D. thesis on “Antimicrobial resistance and molecular epidemiology of MRSA isolates from human and veterinary sources”.

- iii. Guide for the Ph.D. thesis on “Study of acute respiratory viral infections and characterization of influenza isolates with special reference to oseltamavir resistance”.
- iv. Guide for the Ph.D. thesis on “A phenotypic and genotypic characterization of glycopeptide resistance among Gram positive cocci”.
- v. Guide for the Ph.D. thesis on “Virulence genes, antimicrobial resistance and molecular characterization of clinical and asymptomatic carrier isolates of group A beta hemolytic streptococci”.

### Examinership

- i. Internal examiner for M.D. Microbiology in March/April 2014.
- ii. Internal examiner for MBBS in May/June 2013 and November/December 2013.
- iii. Internal examiner for MSc MLT in May/June 2013.
- iv. External examiner for MSc Medical Microbiology held at Mahatma Gandhi Medical College, Puducherry in October 2013.

External examiner for M.D. Microbiology held at Sri Ramachandra Medical College, Porur, Chennai in April 2013.

### Educational

- i. Department In charge of MBBS course

### Patient Care

In-charge of the laboratory reporting in the diagnostic Bacteriology—Exudate and Regional Influenza Laboratory sections.

### Jharna Mandal

#### Administrative Assignments

- i. Assistant Warden of UG and PG girls’ hostels
- ii. Member of the Committee for the Interns Orientation
- iii. Member secretary for the Institute Ph.D. Research Monitoring Committee

#### Guideship

- i. Guide for the M.D. dissertation on “Molecular characterization of diarrhoeagenic *Escherichia coli* in children less than 5 years old”
- ii. Guide for the MSc research project on “Phenotypic characterization of *Escherichia coli* strains isolated from the urine and the gastrointestinal tract of the patients with catheter associated UTI”

### Examinership

- i. Question Paper setter for the BSc Nursing, BSc MLT for May/June 2013 and November/December 2013
- ii. Internal examiner for B.Sc (MLT) Degree Examination May/June 2013
- iii. Institute representative cum Supervisor for the JIPMER MD/MS entrance examination held on February 23, 2014 in Chennai

### Educational

- i. Department In charge of MD Microbiology Course

### Patient Care

- ii. In-charge of the laboratory reporting in the diagnostic Bacteriology—Urine and Stool and Molecular Biology sections.

## Microbiology

### Other Assignments

Handbook on antibiotics use in JIPMER, second edition, 2013

### Rakesh Singh

#### Administrative Assignments

- i. Member of workshop items purchase committee for central workshop
- ii. Quality manager and Supervisor of State Reference Laboratory for HIV
- iii. Indian Academy of Tropical Parasitology EQAS Coordinator

#### Guideship

- i. Guide for the M.D. dissertation on “Role of p24 Antigenemia in Early Detection of HIV infection among Couples”
- ii. Guide for the M.Sc. research project on “Evaluation of fourth generation rapid kit for monitoring the response to antiretroviral therapy”
- iii. MBBS STS research project “Fungal profile of Candiduria at tertiary care hospital”

#### Examinership

- i. External Examiner for MBBS Phase II Microbiology Examination JSS University, Sri Shivarathreeshwara Nagar, Mysore held in February 2014
- ii. Internal examiner for BSc Nursing held in May/June and November/December 2013 and BSc AMS University examination held in May/June 2013
- iii. Question Paper setter for MSc MLT entrance examination in June 2013 and National Board of Examinations in November 2013.

#### Educational

- i. Department In charge of BSc Allied sciences course
- ii. Conducted Tropical Parasitology Prize examination for JIPMER interns on October 5, 2013 at the Department of Microbiology

#### Patient Care

In-charge of the laboratory reporting in the diagnostic Mycology and HIV sections

### Rahul Dhodapkar

#### Administrative assignments

- i. Member of the Surgical items, Sutures and Hospital Disinfectants monitoring committee
- ii. Member of Advisory board for JIPMER Information Technology Services (JITS) Committee
- iii. Member of Committee for Campus Security
- iv. Member of committee for preparation of JIPMER Annual Report/Research Framework Document/JIPMER input for ministry’s annual report Nodal officer for HIS implementation for Department of Microbiology

#### Guideship

- i. Guide for MD dissertation titled “Immunofluorescence assay and multiplex PCR for detection of adenoviruses in patients with keratoconjunctivitis”
- ii. Guide for the M.Sc research project “Diagnosis of viral respiratory tract infections using immunofluorescence with special reference to influenza virus.”

**Examinership**

- i. Internal examiner for MSc MLT May/June 2013 and BSc MLT November/December 2013 University examination.
- ii. Paper setter for MSc MLT and BSc MLT University examination May/June 2013 and MSc MLT entrance examination in June 2013 and National Board of Examinations in November 2013.

**Educational**

- i. Department in charge for PhD teaching programme.
- ii. Departmental in-charge of the BSc MLT and the MSc MLT course.

**Patient Care**

- i. In-charge of the laboratory reporting in the Diagnostic Virology and the Tissue culture sections

**Other Assignments**

Centre supervisor for conduct of written test for the post of LDC/ Steno Gr II/MTS on February 9, 2014.

***Noyal Mariya Joseph*****Administrative Assignments**

- i. Member of JIPMER Quality Council.
- ii. Member Secretary of RNTCP Core committee (JIPMER).
- iii. Joint Secretary of Indian Association of Medical Microbiologists (IAMM) Puducherry Chapter.

**Educational**

- i. Departmental in-charge of the BSc Nursing course

**Patient Care**

In-charge of the laboratory reporting in the diagnostic Mycobacteriology section

***Apurba Sankar Sastry*****Patient Care**

- i. In-charge of the laboratory reporting in the diagnostic Anaerobic section
- ii. Laboratory reporting in the diagnostic Parasitology section

**Other Assignments**

In charge of Bernard theatre

***Hitender Gautam*****Patient Care**

In-charge of the laboratory reporting in the diagnostic HIV—ICTC section

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. State Reference Laboratory (SRL) for HIV testing is granted Accreditation by National Accreditation Board for Testing and Calibration Laboratories (NABL). The accreditation was granted for a period from February 14<sup>th</sup> 2014 to February 13<sup>th</sup> 2016.
- ii. Department of Microbiology, JIPMER is selected by Indian Association of Medical Microbiologists to organize XXXIX National Conference of Microbiology MICROCON 2015.

# Nephrology

## FACULTY LIST

- |                                          |   |                       |
|------------------------------------------|---|-----------------------|
| 1. PROFESSOR OF MEDICINE AND ACTING HEAD | : | Swaminathan R.P.      |
| 2. ASSOCIATE PROFESSOR OF NEPHROLOGY     | : | Sreejith Parameswaran |
| 3. ASSISTANT PROFESSOR OF NEPHROLOGY     | : | Priyamvada P.S.       |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department provides comprehensive nephrology care in all nephrology subspecialty areas such as clinical nephrology, critical care nephrology, interventional nephrology, dialysis services and kidney Transplantation service (living and deceased donor). The department conducts DM nephrology as well as B.Sc. Allied Medical Sciences—Dialysis Technology courses and is actively involved with training of postgraduate residents from various other depts. Under the aegis of the International Society of Nephrology, the dept. has established international collaboration with Columbia University, New York in the areas of training, research and patient care activities. In the year 2013–2014 the department significantly expanded its capacity for haemodialysis and played a pivotal role in establishing a deceased donor kidney transplantation in JIPMER—the first such program in the union territory of Puducherry. The thrust areas for research include epidemiology of Acute Kidney Injury and Chronic Kidney Disease and Clinical research in Primary Glomerular Diseases and Renal Replacement therapies.

## EDUCATIONAL COURSES

- i. Undergraduate courses: B.Sc. Allied Medical Sciences—Dialysis Technology
- ii. Postgraduate courses: Nil
- iii. Higher specialty courses: D.M. Nephrology
- iv. Research courses: Nil
- v. Other courses: Nil

## CONFERENCES AND CMES ORGANIZED BY DEPARTMENT

**JIPMER Nephrology Update 2013—Hypertension**, 1 day CME on Hypertension, endorsed and funded by Indian Society of Nephrology, Supported by the Educational Ambassador Program of the International Society of Nephrology and Accredited by Tamil Nadu Dr. MGR Medical University as Category II CME Program—September 24, 2013.

## CONFERENCES AND CMES ATTENDED BY FACULTY

### Sreejith Parameswaran

- i. CME on Nephrology on the occasion of World Kidney Day, organized by the Indian Medical Association (IMA) Pondicherry branch and Pondicherry Kidney Foundation, on March 16, 2014 and delivered a lecture on “Deceased Donor Kidney Transplantation”.
- ii. “Public Health Retreat” organized by Ministry of Health and Family Welfare and JIPMER, at JIPMER Academic Center (JAC) on March 10 and 11, 2014 as organizer and delegate.
- iii. Participated as delegate, National Conference on Patient Safety (SAFETYCON 2014), organized the Patient Safety Cell, CMC, Vellore, at Bagayam, Vellore on January 23 and 24, 2014.
- iv. Participated as invited faculty and panel member, Advanced Transplant coordinators’ meeting, MOHAN foundation, Chennai January 17, 2014.
- v. Invited as speaker for a CME for ESI doctors, ESI Corporation, Pondicherry, and delivered a lecture on “Treatment Options for ESRD patients—how to choose the best RRT modality”—January 10, 2014.
- vi. Invited as chief guest at the “Trivandrum Nephrology Club” and delivered a guest lecture on “establishing Renal Services under a low resources setting”, November 26, 2013, Trivandrum, Kerala.
- vii. Faculty at the CME and Workshop on Patient Safety, JIPMER, on November 23 and 24, 2013 and delivered a lecture on “Health care worker safety”.
- viii. Core faculty for “Nurses orientation program on patient safety” organized for orientation of 330 newly recruited nurses as part of “Patient Safety Week” at JIPMER, Pondicherry, on November 20, 2013. Was one among the five key faculty, delivered lecture on “Health care worker safety” and moderated “case based learning session” on patient safety.
- ix. Core faculty in “Focused group learning” session on “Health care worker safety” conducted on November 18, 2011 as part of “Patient safety Week”.
- x. Nominated to represent JIPMER at University of Michigan—India research Collaboration symposium and participated in symposia on “Trauma Care” as well as “Health Informatics”—November 11 and 12, 2011, AIIMS, New Delhi, India.
- xi. Participated as delegate in “Basic Epidemiology Course” (Research Methodology, Clinical Epidemiology and Biostatistics) conducted by Department of Preventive and Social Medicine, JIPMER, Pondicherry, November 4–8, 2013.
- xii. Participated as delegate in “Asia-Pacific Peritoneal Dialysis University 2013” organized by Sir Gangaram Hospital, New Delhi, October 25 and 26, 2013.
- xiii. Core faculty at “DM/MCh Resident Orientation Program” on “Patient Safety (Health care worker safety module)” as well as “Medical Ethics” and conducted didactic lectures as well as case based learning sessions (interactive group sessions) for entry level residents for superspecialty courses at JIPMER, October 7–10, 2013.
- xiv. Attended the annual Conference of Peritoneal Dialysis Society of India (PDSICON 2013) at Nedumbasseri, Kochi, Kerala and chaired a session on “Sudden Deaths in Dialysis—What do we know?”, October 4 and 5, 2013.
- xv. Organizing secretary of one day CME “JIPMER Nephrology Update 2013—Hypertension” held on September 24, 2013. The CME was endorsed and sponsored by Education Ambassador Program of International Society of Nephrology as well as by the Indian Society of Nephrology

- and accredited with Tamil Nadu MGR Medical University for 14 CME credit points. Dr. Jai Radhakrishnan, Columbia University, New York was international faculty at the CME
- xvi. Participated as delegate, “CME and Workshop on Brain Death” organized by Department of Surgical Gastroenterology, JIPMER, on September 21, 2013.
  - xvii. Co-organizing secretary, quarterly meeting of Pondicherry Renal Sciences Society (PRSS) on September 15, 2013 and presented a paper in “JIPMER Experience on treatment of poisoning with Charcoal hemoperfusion”.
  - xviii. Organized a symposium on “Health Care Worker Safety” in collaboration with B-D India for JIPMER Quality Council Group leaders on November 14, 2013.
  - xix. Core—faculty and organizing team member, “Training session on safe injections” as well as “Model Injection Room”, organized by JIPMER Quality Council, September 4, 2013.
  - xx. Invited as Guest speaker to the JIPMER Alumni Association of North America (JAANA) biennial meeting, August 1–4, Boston, MA, USA, and delivered a lecture on “Establishing Renal Services in Resource Poor Situations—Trials and Triumphs”.
  - xxi. Attended international CME and workshop on “Renal Biopsy in Medical Diseases of the Kidneys” organized by Columbia University Medical Center, New York, USA, from July 17 to 20, 2013, under the faculty exchange program of “Sister Renal Center Program” of International Society of Nephrology.
  - xxii. Participated a faculty in “Regional Postgraduate Workshop” on “Glomerular Diseases” organized by Indian Society of Nephrology and Madras Medical College on July 13, 2013, at Madras Medical College and delivered a lecture on “Collagenofibrotic Glomerulopathy”.
  - xxiii. Participated as faculty in Annual Dr. Oreopoulos memorial Peritonitis Workshop organized by the departments of Nephrology and Microbiology, Madras Medical mission, Chennai, on July 6, 2013 and delivered a lecture on “The Role of Peritoneal Dialysis Training in Prevention of Peritonitis”. In addition, served a chairperson for a session on clinical case presentations on Peritoneal Dialysis.
  - xxiv. Attended as a panelist, a “Symposium on improving awareness of deceased donor organ donation” organized by “MOHAN Foundation” and Pondicherry Institute of Medical Sciences (PIMS), Pondicherry, on June 22, 2013.
  - xxv. Invited as visiting faculty at General Hospital, Neyveli Lignite Corporation, Neyveli, Tamil Nadu on June 7, 2013. Conducted a hands on workshop on percutaneous insertion of Tenckhoff catheter at the bedside, Delivered a lecture on “Basic Principles of Peritoneal Dialysis” to an audience of NLC doctors, delivered a health awareness talk on “Prevention of Kidney Disease” to NLC employees in the afternoon.
  - xxvi. PRSS meeting, Pondicherry, on April 21, 2013. Two interesting case reports presented at the meeting from Department of Nephrology.
  - xxvii. Trasception 2013: A CME program on Immunosuppression in Kidney Transplantation, Chennai, on April 20, 2013.
  - xxviii. PD Scientia, Bangalore: Two day symposium and workshop on Peritoneal Dialysis at St. John’s hospital, Bangalore, on April 6 and 7, 2013.

### **Priyamvada P.S.**

- i. Invited lecture on “Management of CKD”, Kerala Government Medical Officers Association, South Zone Conference, Pathamamthitta, October 20, 2013.
- ii. Chaired session on:
  - a. Hands on training on sample collection and transport and Sample processing in laboratory.
  - b. Free paper presentation at D.G. Oreopoulos work shop on peritonitis June 06, 2013.
- iii. Chaired a session on Pregnancy induced hypertension on JIPMER Nephrology update on Hypertension September 24, 2014.
- iv. Gut club Pondicherry—A practical approach on management of chronic Hepatitis B infection April 27, 2013.



- v. D.G. Oreopoulos workshop on peritonitis, Madras Medical Mission, Chennai on July 06, 2013.
- vi. Curriculum workshop for B.Sc. Allied Medical Sciences; January 25, 2014 JIPMER.
- vii. Annual conference Indian Society of Nephrology Southern Chapter, Bangalore, February 14–16, 2014.
- viii. PD Scientia India—March 22–23, 2014 Christian Medical College Vellore.

## RESEARCH PROJECTS

S. No.	Name of Principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012–2013 or Ongoing)
1.	R.P. Swaminathan	Follow up study on renal function and serum potassium in patients admitted with hypokalemic paralysis at JIPMER	2013–2015	NA	Departments of Medicine, Nephrology and Biochemistry	Ongoing
2.	R.P. Swaminathan	Serum uric acid and cytokine levels as predictors of mortality in critically ill patients with acute kidney injury	2013–2015	NA	Departments of Medicine, Nephrology and Biochemistry	Ongoing
3.	R.P. Swaminathan	A prospective study on the Impact of dialyzer reuse of dialyzer efficiency	2012–2014	NA	Department of Nephrology	Ongoing
4.	R.P. Swaminathan	–	2013–2015	NA	Department of Nephrology	Ongoing
5.	R.P. Swaminathan	–	2013–2015	NA	Department of Nephrology	Ongoing
6.	Sreejith Parameswaran	A prospective study on the complications of Therapeutic Plasma Exchange using plasma filter	2012–2014	NA	Department of Nephrology	Ongoing
7.	P.S. Priyamvada	A prospective study on the complications associated with the use of temporary dialysis catheter	2012–2014	NA	Department of Nephrology	Ongoing

## PUBLICATIONS

### Journals

1. Ramesh V, Vasupradha G, Oza N, Parameswaran S, Balamurali PD, and Karthikshree VP. Salivary creatinine estimation as an alternative to serum creatinine in chronic kidney disease patients. *Int. J. Nephrol.* 2014, 6, Article ID 742724, <http://dx.doi.org/10.1155/2014/742724>

## Nephrology

2. Joseph D, Biswajit D, Ganesh RN, Parameswaran S, and Jain A. Paediatric T cell lymphoma with nephrotic syndrome: A rare association. *Ind. J. Hematol. Blood Transfus.* 2014 March; 30(1): 45–7, doi: 10.1007/s12288-012-0185-4.
3. Priyamvada PS, Jayasurya R, Srinivas BH, and Parameswaran S. Acute interstitial nephritis following viper bite: A rare association. *Clin. Kidney J.* 2014; 0: 1–2.
4. Priyamvada PS, Parameswaran S, and Morkhandikar S, Vijayshankar. Successful eradication of cryptosporidium in kidney transplant recipients—two case reports. *Ind. J. Trans.* 2014, <http://dx.doi.org/10.1016/j.ijt.2014.01.013>
5. Narayanan P, Rustagi RS, Sivaprakasam P, Subramanian M, Parameswaran S, Mandal J, and Kaplan BS. Haemolytic uraemic syndrome associated with pseudomonas aeruginosa sepsis. *J. Med. Microbiol.* 2013 November; 62(Pt. 11): 1760–2, doi: 10.1099/jmm.0.057174-0.
6. Jha V. and Parameswaran S. Community acquired acute kidney injury in tropical countries. *Nat. Rev. Nephrol.* 2013 May; 9(5): 278–90.

### Books

Nil

### Book Chapters

1. Parameswaran S. Hematinic Agents (Chapter 32), in the book “Prescribing Drugs in Renal Disease”, Ed: Kasi Visweswaran, Kothari Publishers; 2014.
2. Parameswaran S, and Vimala A. Hematopoiesis Stimulating Agents (Chapter 33), in the book “Prescribing Drugs in Renal Disease”, Ed: Kasi Visweswaran, Kothari Publishers; 2014.

## PATIENT CARE SERVICES

The Department of Nephrology started the following new patient care services in 2013–2014:

- i. Deceased Donor Kidney Transplantation Program.
- ii. Diagnostic and Interventional ultrasonography imaging service in the department of Nephrology.
- iii. Haemodialfiltration.

### Clinical services

- i. Kidney Transplantation Service—Living Donor as well as Deceased Donor.
- ii. Dialysis Services.
  - ◆ Emergency Haemodialysis 24 × 7.
  - ◆ Maintenance Haemodialysis for patients with end stage renal disease (ESRD).
  - ◆ Sustained Low Efficiency Dialysis (SLED) for critically ill patients with renal failure.
  - ◆ Continuous Ambulatory Peritoneal Dialysis (CAPD) for patients with End Stage Renal Disease (ESRD).
  - ◆ Intermittent Peritoneal Dialysis.
  - ◆ Haemodiafiltration
- iii. Treatment of Poisoning.
  - ◆ Charcoal Haemoperfusion for poisoning.
- iv. Therapeutic Plasma Exchange.
- v. Interventional Nephrology Service.
  - ◆ Ultrasound Guided biopsy of native and graft kidneys.
  - ◆ Insertion of Haemodialysis catheter (uncuffed).
  - ◆ Insertion of cuffed subcutaneous tunnelled haemodialysis catheter for long term use.

- ◆ Percutaneous insertion of Tenckhoff catheter for continuous ambulatory peritoneal dialysis, at the bedside.
- vi. Outpatient Clinics
  - ◆ Nephrology OP Clinics twice a week.
  - ◆ Glomerular Disease Clinic on Monday.
- vii. Inpatient Service
  - ◆ General ward beds—16
  - ◆ Special Wards—03
  - ◆ Kidney Transplantation isolation rooms—03
- viii. Nephrology consultation service.

Number of Nephrology OPD patients:

New : 2036  
Follow up : 9940

Number of Kidney Transplants:

Living Donor : 10  
Deceased Donor : 10

Number of Hemodialysis : New patients, :1226      Sessions : 4502

Number of SLED: New patients : 57      Sessions: 102

Number of Kidney biopsies:

Native Kidney : 221  
Graft Kidney : 32

Number of Percutaneous CAPD catheter insertions : 23

Number of cuffed subcutaneous tunnelled haemodialysis catheter insertions : 05

Intermittent Peritoneal Dialysis : 13

Nephrology consultations : 1444

Therapeutic Plasma Exchange - New patients : 21      Sessions : 147

Charcoal haemoperfusion : New patients : 03      Sessions : 07

### Laboratory services

Nil

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

### Sreejith Parameswaran

- i. Successfully completed the 1 year online certificate program “Clinical Nephropathology Course” Conducted by the International Society of Nephrology—Association of Nephrologists of Indian Origin (ISN-ANIO) during October 2012—November 2013.
- ii. Played a key role as Nephrologist, in establishing a deceased donor organ transplantation program at JIPMER, the first such program in the union territory of Puducherry.
- iii. Selected as member of expert panel in “Renal Disease Biology Task Force” under the Department of Biotechnology (DBT), Government of India.
- iv. Invited as guest speaker to the JIPMER Alumni Association of North America (JAANA) biennial meeting, August 1st lecture on “Establishing Renal Services in Resource Poor Situations—Trials and Triumphs”.
- v. Organized World Kidney Day celebrations on 14th and organized a half day CME on “Acute Kidney Injury” March 2013 at JIPMER.
- vi. Invited a visiting faculty at General Hospital, Neyveli Lignite Corporation, Neyveli on June 7, 2013. Conducted a hands-on workshop on percutaneous insertion of peritoneal dialysis

catheter at the bedside as the first step towards establishing a peritoneal dialysis program at GH, Neyveli Lignite Corporation. Also delivered a lecture on “Basic Principles of Peritoneal Dialysis” for NLC doctors and a health awareness talk on “Prevention of Kidney Disease” for NLC Employees.

- vii. Invited as a panelist, a “Symposium on improving awareness of deceased donor organ donation” organized by “MOHAN Foundation” and Pondicherry Institute of Medical Sciences (PIMS), Pondicherry, on June 22, 2013.
- viii. Invited as faculty in Annual Dr. Oreopoulos memorial Peritonitis Workshop organized by the departments of Nephrology and Microbiology, Madras Medical mission, Chennai, on July 6, 2013 and delivered a lecture on “Role of Peritoneal Dialysis Training in Prevention of Peritonitis”. In addition, served a chairperson for a session on clinical case presentations on Peritoneal Dialysis.
- ix. Invited as faculty at “Regional Postgraduate Workshop” on “Glomerular Diseases” organized by Indian Society of Nephrology and Madras Medical College on 13th on “Collagenofibrotic Glomerulopathy” July 2013, at Madras Medical College and delivered a lecture.
- x. Organized a symposium on “Health Care Worker Safety” in collaboration with B-D India for JIPMER Quality Council Group leaders on November 14, 2013.
- xi. Core—faculty and organizing team member, “Training session on Safe injections” as well as “Model injection Room”, organized by JIPMER Quality Council, September 4, 2013.
- xii. Was the organizing secretary of one day CME “JIPMER Nephrology Update 2013—Hypertension” held on 24th sponsored by Education Ambassador Program of International Society of Nephrology as well as by the Indian Society of Nephrology and accredited with Tamil Nadu MGR Medical University for 14 CME credit points. Dr. Jai Radhakrishnan, Columbia University, New York was international faculty at the CME.
- xiii. Invited as chairperson at the annual conference of Peritoneal Dialysis Society of India (PDSICON2013) at Nedumbasseri, Kochi, Kerala and chaired a session on “Sudden Deaths in Dialysis—What do we know?”, October 4 and 5, 2013.
- xiv. Core faculty at “DM/MCh Resident Orientation Program” on “Patient Safety (health care worker safety module)” as well as “Medical Ethics” and conducted didactic lectures as well as case based learning sessions (interactive group sessions) for entry level residents for superspecialty courses at JIPMER, October 7, 2013.
- xv. Faculty at the CME and Workshop on Patient Safety, JIPMER, on November 23 and 24, 2013 and delivered a lecture on “Health care worker safety”.
- xvi. Invited as chief guest at the “Trivandrum Nephrology Club” and delivered a guest lecture on “establishing Renal Services under a low resources setting”, November 26, 2013, Trivandrum, Kerala.
- xvii. Invited as speaker for a CME for ESI doctors, ESI Corporation, Pondicherry, and delivered a lecture on “Treatment Options for ESRD patients—how to choose the best RRT modality”—January 10, 2014.
- xviii. Invited faculty and panel member, “Advanced Transplant coordinators” meeting, MOHAN foundation, Chennai January 17, 2014.
- xix. Delivered Invited lecture on “Deceased Donor Kidney Transplantation” on March 16, 2014 at a CME organized by Indian Medical Association and Pondicherry Kidney Foundation.

Peer-reviewer for articles submitted for publication to the following journals:

- i. Indian Journal of Nephrology, published by the Indian Society of Nephrology.
- ii. Nephrology, published by Asia-Pacific Society of Nephrology.
- iii. British Medical Journal Open (BMJ Open).
- iv. Indian Journal of Medical Research published by ICMR.
- v. Journal of Pharmacology and Pharmacotherapeutics, published by In Pharm association.
- vi. Health Sciences, published by Kerala University of Health Sciences.

- vii. Indian Journal of Physiology and Pharmacology, The official journal of association of physiologists and pharmacologists of India.

#### Membership in Professional Societies:

- i. International Society of Nephrology.
- ii. American Society of Nephrology.
- iii. The Transplantation Society (TTS).
- iv. Indian Society of Nephrology.
- v. Indian Society of Nephrology—Southern chapter.
- vi. Indian Society of Renal and Transplantation Pathology.
- vii. Pondicherry Renal Sciences Society.
- viii. Indian Society of Peritoneal Dialysis.
- ix. Nephrology Association of Tamil Nadu and Puducherry.

#### **Priyamvada P.S.**

#### Memberships of professional societies

- 1. Association of Physicians of India
- 2. Nephrology association of Kerala
- 3. Indian society of Nephrology – Southern Chapter
- 4. Nephrology Association of Puducherry and Tamilnadu
- 5. Peritoneal Dialysis Society of India

#### Peer-reviewer of journals

- 1. Saudi journal of kidney disease and transplantation

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### **Sreejith Parameswaran**

- i. Member, Drug Purchase and utilization committee, JIPMER.
- ii. Member, Pharmacovigilance Advisory Committee, JIPMER.
- iii. Member, JIPMER Quality Council, JIPMER.
- iv. Group Leader, JIPMER Quality Council Group on Workforce Safety.
- v. Member, PhD Doctoral Committee, Center for Biomedical Research, VIT University, Vellore, Tamil Nadu.
- vi. Member, Institute core committee for Kidney Transplantation, JIPMER.
- vii. Member, Kidney Transplantation team, JIPMER.
- viii. Member, JIPMER Deceased Donor Kidney Transplantation Coordination Committee.
- ix. Member, Signal Review Panel, Pharmacovigilance program of India, Indian Pharmacopoeia Commission, Ministry of Health and Family welfare.
- x. Member, Task force on Renal Disease Biology, Department of Biotechnology (DBT).
- xi. Faculty responsible for formulating curriculum, course content and training program of the D.M. Nephrology course at JIPMER.
- xii. Faculty, D.M./MCh orientation program, JIPMER.
- xiii. Examiner for BSc Allied Medical Sciences Dialysis Technology course, JIPMER.
- xiv. Co-guide for two DM Nephrology dissertation projects, one DM Clinical Pharmacology dissertation project, Three M. D. General Medicine Thesis Projects and two MSc Medical Biochemistry Thesis projects.

**Priyamvada P.S.**

1. Member, Student counselling services, JIPMER.
2. Member, JIPMER Quality council.
3. Nodal officer; B.Sc. Allied medical sciences—Dialysis technology.
4. Member, Hospital stores articles purchase committee, JIPMER.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. Organized a CME “JIPMER Nephrology Update 2013—Hypertension” held on September 24, 2013 sponsored by Education Ambassador Program of International Society of Nephrology as well as by the Indian Society of Nephrology and accredited with Tamil Nadu MGR Medical University for 14 CME credit points. Dr. Jai Radhakrishnan, Columbia University, New York was international faculty at the CME.
- ii. Started a Deceased Donor Kidney Transplantation program at JIPMER.
- iii. Visiting Professor:
  - a. Dr. Jai Radhakrishnan, Professor of Clinical Medicine, Columbia University, New York, USA visited the department on September 23 and 24, 2013.
- iv. Papers presented at conferences:
  - ‘Patients with Nephrotic Syndrome have high prevalence of Metabolic bone disease at presentation with significant further decline of bone mineral density over the first six months of treatment’ at the Annual conference of Indian Society of Nephrology (ISNCON 2013), at Gurgaon in December 2013
  - ‘Spectrum of Renal Disease in Type 2 Diabetes Mellitus in a Tertiary care hospital’ at the annual conference of Indian Society of Nephrology – Southern Chapter (ISNSC CON 2014) at Bangalore in February 2014
- v. The JIPMER team of dialysis technicians, Mr. A.K. Saravanan, Ms Ananthi and Ms Rajalakshmi won first prize in national quiz competition conducted at the annual conference of Peritoneal Dialysis Society of India at Nedumbassary, Kochi, Kerala on October 5, 2013.
- vi. Expanded haemodialysis services by installing eight more haemodialysis machines.

# Neurology

## FACULTY LIST

- |                         |   |                                        |
|-------------------------|---|----------------------------------------|
| 1. PROFESSOR AND HEAD   | : | Sunil K Narayan                        |
| 2. ASSOCIATE PROFESSORS | : | i. Pradeep P Nair<br>ii. Srijithesh PR |
| 3. ASSISTANT PROFESSOR  | : | Vaibhav Wadwekar                       |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The Neurology department, which has been functioning since 1986, was moved to Super Specialty block in 2009. The Department conducts General Neurology and Special Stroke and Epilepsy clinics. The Department has an Intensive Care Unit and 20 general ward beds. It has state of the art equipments such as Video-EEG, Cerebrovascular Doppler, ENMG-EP, Tilt-table, Cognitive battery as well as basic wet lab facilities such as Microscope, Centrifuge and Deep freezer. In addition to these diagnostic facilities, the Department has made a beginning to develop a Neurobionics facility with acquisition of a functional electrical stimulator and through collaborative programmes. The Department currently offers DM Neurology and B.Sc. Neurotechnology courses. Cerebrovascular Interventional, Epilepsy Surgery, Neurobionics and Neuro-rehabilitatory programmes are in the pipeline along with fellowship and research courses.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

- i. B.Sc. Neurotechnology: The course was started in 2011 with an intake of four students per year. We are the first in the country to start Neurotechnology as a comprehensive 3-year B.Sc. course.
- ii. B.Sc. Nursing: The Department takes part in the Neurology training of students through didactic lectures in Neuroscience topics.
- iii. MBBS: Our faculty takes didactic lecture classes in Neurology to final year MBBS students on topics such as stroke, epilepsy and Parkinsonism and conduct yearly the Dr. Nanda memorial Gold Medal Examination in Neurology for MBBS students.

### *Postgraduate Courses*

- i. MD postgraduate students of JIPMER in Internal Medicine, Psychiatry, Ophthalmology, Clinical immunology and Clinical pharmacology undergo clinical rotations in Neurology.
- ii. Faculty in Neurology guide/co-guide MD thesis of postgraduates in neurologically relevant topics for MD Medicine, Psychiatry, Physiology, Pharmacology currently.
- iii. We conduct Dr. Chandrasekhar Gold Medal Examinations for MD Medicine, Pediatrics, Anesthesia and Psychiatry students.

### Higher Specialty Courses

- i. DM Neurology: 2 seats in a year

### Other Courses

- i. The Department co-guides a PhD. student in Microbiology.
- ii. A batch of 12 postgraduate students in Engineering Designs from IITM, Chennai, underwent a 1 day training programme at the Neurotechnology laboratories.
- iii. One MBBS student from University College London, did 1 month internship in Tropical Neurology.
- iv. Two Neurophysiotherapy postgraduate students from Mother Theresa Institute of Paramedical Sciences, Pondicherry underwent training in Neurology.
- v. One batch of final year B.Sc. nursing students was given didactic lectures and underwent rotations in Neurology.
- vi. Two Students of Medical Records Training course received didactic lectures and underwent training in Neurology topics.

### CONFERENCES AND CMES ORGANISED BY THE DEPARTMENT

- i. The Department organized TANCON2013, the second annual conference of the Tamilnadu and Pondicherry association in collaboration with PANSS and TAN.
- ii. The Department organized a JSS talk and CME by Prof. Rob Shepherd, Bionics Institute Australia on December 8 and 9, 2013, who talked on the field of Neurobionics, Bionic Eye and Cochlear implants and related technologies.

### CONFERENCES AND CMES ATTENDED BY FACULTY

#### Dr. Sunil K Narayan

- i. **SHINE 2014:** Dr. Sunil K. Narayan was invited as faculty and chaired the prize session on “Innovations in Neurology Practice” in SHINE 2014 (fourth Annual Conference of Clinical Neurology) held at Chennai between April 4 and 6, 2014.
- ii. **MEDIGENCON 2014:** Dr. Sunil K. Narayan attended Medigencon 2014 (Second National Symposium “Approach to rare, treatable genetic diseases”) held at Bengaluru on February 31st to March 1st, 2014.
- iii. **IANCON 2013:** Dr. Sunil K. Narayan was invited as faculty in IANCON 2013 (Twenty-first Annual Conference) and was the convener of the stroke subsection business meeting and stroke symposium on “Frontiers in Neurobiology of ischemic Stroke” held at Indore from October 24 to 27, 2013.
- iv. **Regional Workshop for sensitization and Awareness on National medical college network project** of Ministry of Health and Family Welfare, Govt. of India held on August, 16 2013 at JIPMER, Puducherry.
- v. **TANCON 2013:** Dr. Sunil K Narayan was the convener of the “Regional Neurological Services” session at TANCON 2013 (Second Annual conference of Tamilnadu Association of Neurologists).

#### Papers Presented

- i. **ISACON 2014:** Dr. Sunil K Narayan participated in ISACON 2014 (IXth National Conference of Indian Stroke Association) held at Thiruvananthapuram from March 14 to 16 and presented a paper



titled “ MTHFR C677T polymorphism enhances risk for stroke but A1298C variation protects against stroke, myocardial infarction and peripheral vascular disease”. Dr. Balachander C, Dr. Subbarao KS, Dr. Goutam Roy, Dr. Ananthanarayanan PH and Dr. Adithan C were the other authors.

- ii. **TROPICON 2014:** Dr. Sunil K Narayan participated as a faculty and delivered a lecture on “Organophosphorus Poisoning” in TROPICON 2014 held at Chennai on March 8–9, 2014.
- iii. **HEART and STROKE 2013:** Dr. Sunil K Narayan attended Heart and Stroke 2013 conference held at New Delhi from November 8–10, 2013 and presented a paper on “Homocysteine and MTHFR polymorphisms are significantly associated with stroke but not myocardial infarction”. Dr. Balachander C, Dr. Subbarao KS, Dr. Goutam Roy Dr. Ananthanarayanan PH and Dr. Adithan C were the other authors.
- iv. **NSICON 2013:** Dr. Sunil K Narayan attended the 62nd Annual Conference of Neurological Society of India (NSI) held at Mumbai from December 12–15, 2013 and presented a paper on “Comparison of Multiple Sclerosis and Neuromyelitis Optica in a Tamilian population: Gender, Relapse Vitamin D level and Disability profile differ”.
- v. **IANCON 2013:** Dr. Sunil K Narayan was a faculty and presented a paper on “Biomarkers in ischemic stroke” in IANCON 2013 stroke symposium held at Indore from 24 to 27, October 2013.
- vi. **FINE 2013:** Dr. Sunil K Narayan presented a paper on “JIPMER stroke revascularisation registry” at FINE (weekend stroke course) held at Hyderabad from 22<sup>nd</sup> – 24<sup>th</sup> Nov.2013. Dr. Roopeshkumar M, Dr. Sibi Thirunavakkarasu, Dr. Ramesh Ananthkrishnan and Dr. Ajith were the other authors.
- vii. **TANCON 2013:** Dr. Sunil K Narayan presented a paper on “Current Status of Neurobionics in India”

### **Dr. Pradeep P Nair**

- i. Attended “Workshop on Observational Studies” held at SGPGI, Lucknow from September 30, 2013 and October 1–2, 2013.

### **Dr. Srijithesh PR**

- i. JIPMER Scientific Society (JSS), led talk, titled “Evidence based medicine as medical epistemology”.
- ii. Attended 8th National Sleep Medicine Course 2013 (NSMC 2013) held at Chennai from 13 – 15 Dec. 2013.
- iii. Attended ISACON held at Thiruvananthapuram from March 14t to 6, 2014
- iv. Attended Interventional Neurology workshop held at New Delhi from March 12 to 14, 2014.

### **Dr. Vaibhav Wadwekar**

- i. Attended “International Neurological Workshop” held at GB Pant Hospital, New Delhi from February 14 to 16, 2014
- ii. Attended “Curriculum development workshop” held at JIPMER, Puducherry on January 25, 2014
- iii. Attended JIPMER Quality Council CME on Patient Safety held at JIPMER, Puducherry on November 23 and 24, 2013.
- iv. Attended “Workshop on purchase procedures for faculty” held at JIPMER, Puducherry on April 6, 2013.
- v. Attended “Workshop on Basic Biostatistics” held at SGPGI, Lucknow from July 25 to 28 2013.
- vi. Attended “Workshop on Scientific paper writing NIH” held at SGPGI, Lucknow from April 19 to 21, 2013.

## Research Projects

S. No.	Principal Investigator	Title of the Project	Duration of the Project	Funding Agency	Collaborating Institutions / Departments	Status
1.	Dr. Sunil Narayan	Randomized double blind placebo controlled trial of Sodium ozagrel and Edaravone in acute ischemic stroke (EDOZ) (CTRI REF/2012/03/003334)	3 years minimum	Partial funding from Industry in the form of supply of active drugs; Further funding application process	Clinical Pharmacology	Ongoing
2.	Dr. Sunil Narayan	Effectiveness of Nitric Oxide in Stroke (ENOS): A multi-centric international open labeled single blinded study	3 years	Medical Research Council, UK and Nottingham University	Pharmacology	Completed - site monitoring visit completed
3.	Dr. Sunil Narayan	Association of total plasma homocysteine, vitamin B12 and folic acid levels and MTHFR gene polymorphisms with ischemic strokes in Tamil population	3 years	Intramural	Pharmacology and Biochemistry	Completed
4.	Dr. Sunil Narayan	Association of thrombophilic factors in stroke	2 years	Intramural	Pathology, Pharmacology	Completed; Utilisation certificates submitted
5.	Dr. Sunil Narayan	An assessment of the electrophysiologic and metabolic effects of surgical de-tethering of the spinal cord in patients with tethered cord syndrome – a prospective pilot study	2 years	Nil	Neurosurgery, Biochemistry	Ongoing
6.	Dr. Sunil Narayan	Transcranial Doppler flow velocity measurements in cerebral vasculature: Reference values at rest and after breath holding in healthy volunteers	2 years	Nil	Nil	Completed

7.	Dr. Sunil Narayan	Clinical pattern and survival analysis based on Amyotrophic Lateral Sclerosis Functional Rating Scale revised scores (ALSFRS-r), baseline characteristics and TDP43 gene expression in a south Indian cohort of motor neuron disease	3 years	Nil	-	Ongoing
8.	Dr. Sunil Narayan	Determinants of natural history in acquired central demyelinating diseases: A comparative study	3 years	Intramural and extramural of the intramural funds have been utilized to buy the NMO ELISA antibody kits;	Immunology and endocrinology	Completed;
9.	Dr. Sunil Narayan	Assessment of biomarkers in stroke and their correlation with type and severity of disease: A preliminary hospital based case-control study	>3 years	Intramural and extramural	Biochemistry	Ongoing
10.	Dr. Sunil Narayan	Role of interictal Transcranial Doppler and SPECT brain in distinguishing between nonlabyrinthine and labyrinthine dizzy spells in elderly subjects—a case control study	2 years	Nil	Nuclear Medicine	Ongoing
11.	Dr. Sunil Narayan	The effect of Yogic relaxation technique (Pranava yoga) on cerebrovascular reactivity in ischemic stroke patients a randomized control trial	2 years	Nil	Acyter	Ongoing
12.	Dr. Sunil Narayan	Frequency of carotid artery disease and its determinants in ischemic stroke patients – a hospital based cross sectional study	2 years	Nil	None	Ongoing
13.	Dr. Sunil Narayan	Retinal vascular changes in Ischemic Stroke – a case control study	2 years	Nil	Ophthalmology	Ongoing
14.	Dr. Sunil Narayan	Autonomic dysfunction in patients with ischemic stroke	2 years	Nil	None	Ongoing

15.	Dr. Sunil Narayan and Dr. Vaibhav Wadwekar	Adherence pattern to anti-epileptic regimen and its determinants among patients attending Neurology OPD	-	-	-	Ongoing - Nursing student project/
16.	Dr. Pradeep Pankajakshan Nair	Semiologic classification of psychogenic Non epileptic seizures (PNES) based on video EEG analysis	-	None	None	Completed, Published
17.	Dr. Pradeep Pankajakshan Nair	Adaptation and validation of a semantically, trans culturally and operationally equivalent Tamil version of the Dissociative Experiences Scale II (DESI) in patients with Psychogenic Non Epileptic Seizure patients (PNES)	2012-2014	None	None	Ongoing
18.	Dr. Pradeep Pankajakshan Nair	A comparison of efficacy of local corticosteroid injection into carpal tunnel: Distal vs proximal approaches in patients with carpal tunnel syndrome	3 years from Jan 2012	None	None	Ongoing
19.	Dr. Pradeep Pankajakshan Nair	A study to evaluate Novel induction -de induction technique in patients with suspected Psychogenic Non epileptic seizure (PNES)	3 years from June 21, 2012	None	None	Ongoing
20.	Dr. Srijiithesh PR	Temporal validity of biochemical platelet aspirin responsiveness status in ischemic stroke patients on constant dose of aspirin	From April 2012	Intramural 1 lakh full proposal approved by ICMR for extramural funding	Biochemistry and Pharmacology	Ongoing
21.	Dr. Srijiithesh PR	Magnitude and evolution of sleep disordered breathing in stroke survivors	From April 2012	Full proposal approved by ICMR for extramural funding	Chest medicine	Ongoing

22.	Dr. Srijithesh PR	Magnitude and determinants of missed and delayed diagnosis of migraine	From October 2009	None	None	Ongoing
23.	Dr. Srijithesh PR	Diagnosis of restless leg syndrome and validity of RLS diagnosis criteria		None	None	Ongoing
24.	Dr. Srijithesh PR	Puducherry population- based cohort study on vascular risk factors and vascular cognitive impairment		Concept proposal approved Pending: Full Proposal submission	None	Ongoing
25.	Dr. Srijithesh PR	Cohrine systematic Review Positional therapy in obstructive sleep apnea		Protocol published	None	Ongoing
26.	Dr. Srijithesh PR	Survey on awareness of sleep disordered breathing as a vascular risk factor among health professionals	April 2011	None	None	Completed
27.	Dr. Vaibhav Wadwekar	Prevalence of restless legs Syndrome in patients of chronic liver disease	3 years	Self- funded	None	Ongoing
28.	Dr. Vaibhav Wadwekar	Prevalence of restless legs syndrome in patients of chronic kidney disease	3 years	Self- funded	None	Ongoing - Ethics clearance gained
29.	Dr. Vaibhav Wadwekar	Translation and validation of International Restless Leg Syndrome Study Group rating scale and Restless Legs Syndrome Quality of Life Questionnaire in Tamil language	3 years	Self- funded	None	Ongoing - At step of back translation
30.	Dr. Vaibhav Wadwekar	Prevalence of Restless legs syndrome(RLS) in patients of chronic liver disease patients.				Ongoing - Patients enrolled

**PUBLICATIONS****Journals**

1. Narayan SK, Verman A, Kattimani S, Ananthanarayanan PH, Adithan C. Plasma homocysteine levels in depression and schizophrenia in South Indian Tamilian population. *Ind. J Psychiatry*. 2014 Jan; 56(1):46–53. doi: 10.4103/0019-5545.124746. PMID:24574558 [PubMed] PMCID: PMC3927245
2. Roopesh Kumar VR, Madhugiri VS, Kamalanathan SK, Srinivas BH, Narayan SK, Bidkar P. Complete and curative excision of hypothalamic hamartomas via the orbito-zygomatic approach. *Neurol India*. 2013 Nov-Dec; 61(6):690–691. doi: 10.4103/0028-3886.125388. PMID:24441357 [PubMed - in process]
3. Kaliaperumal S, Narayan SK. Neuroretinitis: Update on a visual emergency and role of technology in its diagnosis. *Journal of Biomedical Science and Engineering*. 2013 October 30; 6(10B):15–19.
4. Subramanian SK, Gaur GS, Narayan SK. Low luminance/eyes closed and monochromatic stimulations reduce variability of flash visual evoked potential latency. *Ann Ind. Acad Neurol*. 2013 Oct;16(4):614–618. doi: 10.4103/0972-2327.120492. PMID:24339591 [PubMed] PMCID: PMC3841612
5. Roopesh Kumar VR, Narayan SK, Madhugiri VS, Sasidharan GM, Gundamaneni SK. Cerebral revascularization with superficial temporal - middle cerebral artery anastomosis for complete carotid occlusion: An emerging modality for preventing recurrent stroke. *Ann Indian Acad Neurol*. 2013 Oct; 16(4):521–524. doi: 10.4103/0972-2327.120450. PMID:24339571 [PubMed] PMCID:PMC3841592
6. Nair PP, Wadwekar V, Murgai A, Narayan SK. Refractory status epilepticus complicated by drug-induced involuntary movements. *BMJ Case Rep*. 2014 Feb 11;2014. pii: bcr-2013-202691. doi: 10.1136/bcr-2013-202691. PMID:24518529 [PubMed—in process]
7. Alfahad TB, Nair PP. Teaching Neuroimages: Snake eyes appearance in MRI in a patient with ALS. *Neurology*. 2014 Mar 4; 82(9):818–819. PubMed PMID: 24590249.
8. Wadwekar V, Nair PP, Murgai A, Thirunavukkarasu S, Thazhath HK. Semiologic classification of psychogenic non epileptic seizures (PNES) based on video EEG analysis: Do we need new classification systems? *Seizure*. 2014 Mar; 23(3):222–226. Epub 2013 Dec 16. PubMed PMID: 24397968.
9. Nair PP, Khilari M, Peddawad D, Chandrashekar L. Meningeal calcification in basal cell nevus syndrome. *BMJ Case Rep*. 2013 Nov 28;2013. PubMed PMID: 24287476.
10. Thirunavukkarasu S, Nair PP, Wadwekar V. Acute bilateral putaminal haemorrhagic necrosis in methanol poisoning. *BMJ Case Rep*. 2013 Nov 8; 2013. PubMed PMID: 24214154.
11. Sharma S, Nair PP, Murgai A, Selvaraj RJ. Transient bradycardia induced by thiopentone sodium: a unique challenge in the management of refractory status epilepticus. *BMJ Case Rep*. 2013 Oct 15; 2013. PubMed PMID: 24130206.
12. Sunitha VC, Narayanan S, Nair PP, Prakash ML. Left-sided Poland's syndrome in a girl with rare associations like spina bifida and diaphragmatic hernia. *BMJ Case Rep*. 2013 Sep 20; 2013. PubMed PMID: 24057335.
13. Srijithesh PR, Rajeswari Aghoram, Amit Goel, Jayaraj Dhanya. Positional therapy for obstructive sleep apnoea. *The Cochrane Library*. 16 FEB 2014. DOI: 10.1002/14651858.CD010990
14. Sharma S, Srijithesh PR. Sleeping over a sleep disorder - awareness of obstructive sleep apnoea as a modifiable risk factor for hypertension and stroke: A survey among health care professionals and medical students. *Ann Indian Acad Neurol*. 2013 Apr; 16(2):151–3. doi: 10.4103/0972-2327.112446. PMID: 23956553
15. Khilari M, Chakkalakkooombil SV, Wadwekar V, Nair PP. Sporadic Creutzfeldt-Jakob disease (sCJD) with asymmetric findings. *BMJ Case Rep*. 2014 Mar 24; 2014. pii: bcr2013203007. doi: 10.1136/bcr-2013-203007. PMID:24663250

## Book Chapters

Sushma Sharma, Sunil Narayan. Central Nervous system infections in elderly. Textbook of Geriatrics. Ed. Pratap Sanchetee.

Narayan SK. Epigenetics in Tropical Neurology. In Selected Topics in Tropical Neurology First edition. 2014. Edited by Narayan SK and Sanchetee Pratap. Byword Publications, New Delhi.

## PATIENT CARE SERVICES

### Clinical

#### Outpatient Care

**Stroke Clinic:** The Thursday stroke clinic has grown further in the last 1 year. The stroke and TIA clinic led by a trained stroke neurologist augmented its follow-up services by the services rendered by a data operator, a neurobiology technician, a full-time medical social worker, speech therapist and neurophysiotherapy trainees and social science trainees. This is one-stop state of the art facility for investigations and management of transient ischemic attacks and completed strokes. The clinic provides TCD and carotid and vertebral colour duplex studies and gives direct access to CT, MRI, DSA, SPECT and biological studies for all patients with indications. The clinic sees upto 35–50 new and about 100–125 follow-up patients a week. The medical social worker arranges for disability certificates and through RAN scheme provides for stroke thrombolysis and botox therapy for spasticity

Faculty in charge: Dr. Sunil Narayan and Dr. Srijithesh PR

**Epilepsy Clinic:** In its second year, the Monday epilepsy clinic has grown with a goal to provide focused care and to sort out the medically intractable group. With an average over 250 Epilepsy cases per week, this clinic provides best of medical care to epilepsy patients.

Faculty in charge: Dr. Pradeep Nair and Dr. Vaibhav Wadwekar

**Demyelinating/Degenerating/Neurogenetics clinic:** This new clinic started functioning on Tuesdays from this year. Multiple sclerosis, Motor neuron disease and Neurometabolic disease cohort registries have been started under this clinic. This clinic is assisted by the medical social worker and neurobiology teams.

Faculty in Charge: Dr. Sunil Narayan

**Movement disorder/ sleep clinic:** This new clinic started this year runs on Friday afternoons.

Faculty in charge: Dr. Srijithesh PR

**General Neurology Clinics:** Department runs general neurology clinics on Wednesdays and Fridays and is attended by all faculty. With an average of 300–400 per/week, Neurology has one of the busiest OPDs of JIPMER with tertiary level care and offer of free drugs for all common conditions and attract patients in and around the Union Territory and from far and wide in Tamil Nadu and many parts of Kerala, Andhra Pradesh and Orissa. This clinic too receives the support of a medical social worker.

#### Inpatient care:

The Department has a 6-bedded acute stroke/neurointensive care unit with laptop based digital EEG, ENMG, TCD, 6 ventilators, a 16 bedded intermediary care ward and 4-special ward beds considerably augmenting its patient care services. High impact facilities such as plasma exchange, IV methyl prednisolone and IV Immunoglobulin therapy for acute neuroimmunological diseases; antibiotic, antifungal and antiviral therapy for CNS infections; IV tPA thrombolysis and cranial decompression therapies and opportunities for participation in neuroprotective trials for acute ischemic strokes with prompt laboratory supports including neuroimaging, neurochemistry and neurophysiologic studies and access to internet in all wards makes our service efficient, effective and highly affordable for poor patients. Established a **carotid disease and cerebral revascularization registry** in collaboration with the department of Neurosurgery and three stroke patients were benefitted with advanced cerebral revascularization procedures. Under the **neurobionics programme** one patient with irreversible chronic spastic paraplegia was provided with intrathecal baclofen pump successfully being followed up with recharging after 6 months.

## Laboratory

### New Equipments

Department acquired an ELISA reader system and a Coolant centrifuge for its neurobiology services.

### Other Equipments and Investigatory Facilities

Department has **three Video EEG, three ENMG and Evoked Potential machines, one TCD, one Carotid colour duplex scanner, one computerized cognitive battery, one functional electrical stimulator and one tilt table test facility and an autonomous system** is being installed.

These facilities are supported by a Neurotechnology course in collaboration with our biomedical engineering department and IITM, Chennai.

### Community Work

The Department took part in a public awareness programme on “Stroke care in community and special community homes” in connection with the World Stroke Day observation on 30.11.12 in collaboration with the World Diabetes Foundation project of JIPMER.

Department of Neurology with Neurosurgery conducted six medical camps in Karaikal at the JIPMER outreach centre. This is attended by around 50–75 patients on average.

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

### Dr. Sunil K Narayan

- i. Successfully completed **PhD in the interdisciplinary disciplines of Pharmacology and Neurology through a split-site doctoral scholarship** of the UGC–CFSP programme.
- ii. Selected as **convener, Stroke subsection, Indian Academy of Neurology**
- iii. Selected as **nodal person and co-ordinator for the NAMASTE India** programme of the Erasmus Mundus scholarships fellowships scheme of the **European Union**.
- iv. Selected as the **President of the JIPMER Scientific Society**.

### Dr. Pradeep Pankajakshan Nair

- i. Doing one year Fellowship in comprehensive epilepsy care at SCTIMST, Trivandrum from Jan 2014 to Dec 2014.
- ii. Life member—Indian Academy of Neurology
- iii. Life member—Indian Epilepsy Society

### Dr. Srijithesh P.R

- i. Life member—Indian Academy of Neurology
- ii. Member—Movement Disorders Society
- iii. Member—World Association of Sleep Medicine

## ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

### Dr. Sunil K. Narayan

- i. New Drug Advisory Committee, for the Drug Control General of India- Expert member for Neurosciences for evaluation of drug trial proposals and new drug proposals.
- ii. Kerala State Council for Science, Technology and Environment- expert for evaluation of research project proposals for grants.
- iii. Chairman of the superspeciality PG research committee overseeing the scientific advisory committee for superspecialities.
- iv. Institute Super Specialty core curriculum committee member



- v. JIPMER Scientific Society –President
- vi. Institute Brain-Death certification committee- Ombudsman
- vii. Internal expert for faculty appointments and promotions in Neurology
- viii. PhD examiner for Dr. MGR university, Tamil Nadu
- ix. DM Neurology examiner for Dr. MGR, Dr. NTR universities and for Kerala University of Health Sciences and Nizam's Institute of Medical Sciences, Hyderabad
- x. Editorial board member of "Journal of frugal innovations"
- xi. Reviewer for International journal of psychogeriatrics, Journal of Neurology, Practical Neurology, Journal of the Neurological sciences, Annals of Indian Academy of Neurology, Journal of Association of Physicians of India, Indian journal of Psychiatry, etc.
- xii. Adjunct Professor at IITM, Chennai was extended for a period of 3 more years.

### **Dr. Pradeep Pankajakshan Nair**

- i. Member of committee for the preparation of the EML
- ii. Member of Brain death Certification Committee

### **Dr. Srijithesh P.R**

- i. Core committee member of Evidence informed medicine workshop held for PG orientation by Medical education department- held three workshops in July and August, 2012
- ii. Member of JIPMER PRRC committee
- iii. Member of Brain-death Certification Committee
- iv. Coordinator of Evidence based practice committee for JIPMER Quality council.
  - v. Kerala State Council for Science, Technology and Environment- expert for evaluation of research project proposals for grants
- vi. Ad hoc reviewer for the International Journal 'Trial'

### **Dr. Vaibhav Wadwekar**

- i. Coordinator of B.Sc. Neuro-technology Course
- ii. Member of JIPMER Quality Council for prevention against fall among patients Group
- iii. Member of JIPMER Quality Council for Medication Safety Group
- iv. Member of JIPMER Quality Council for SOP/Checklists and Communication Group
- vi. Member of Committee for the preparation of the EML
- vii. Member of Brain-death Certification Committee

## **SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. Dr. Sunil Narayan completed an interdisciplinary PhD in Pharmacology and Neurology. He was also awarded a NAMASTE-India scholarship in therapeutic electrophysiology at the University of Goettingen, Germany.
- ii. Dr. Pradeep P Nair was awarded a one year fellowship in Comprehensive Epilepsy Care at the Sree Chitra Tirunal Institute of Medical Sciences and Technology, Thiruvananthapuram.
- iii. Dr. Madhuri Khilari, DM Neurology student was a runner up at the quiz programme for Neurology residents held at Bangalore. She was also awarded a 6-months neurophysiology scholarship at the University of Goettingen, Germany.
- iv. Mr. Rejul V underwent training in advanced Neurobiology for a period of 2 months at National Institute of mental health and Neurosciences, Bangalore. He was awarded a Erasmus Mundus scholarship at the Neurobiology department at Oxford, UK.
- v. Mr. Vadivelan V underwent training in interventional vascular neurology for a period of 2 months at the Neurointervention centre in Thanjavur.
- vi. Three final year B.Sc. Neurotechnology students underwent training in Neuropathology at NIMHANS, Bangalore
- vii. Four 2nd year B.Sc. Neurotechnology students underwent training in instrumentation at IITM, Chennai.

# Neurosurgery

## FACULTY LIST

- |                                  |   |                           |
|----------------------------------|---|---------------------------|
| 1. ADDITIONAL PROFESSOR AND HEAD | : | Roopesh Kumar V. R.       |
| 2. ASSOCIATE PROFESSOR           | : | i. Gopalakrishnan M. S.   |
|                                  | : | ii. Venkatesh S Madhugiri |
| 3. ASSISTANT PROFESSOR           | : | i. Ramesh A. S.           |
|                                  | : | ii. Sathia Prabhu A.      |

## BACK GROUND INFORMATION

The inception of Neurosurgery services in JIPMER was in July 2006 when Dr. Roopesh Kumar and Dr. Gopalakrishnan joined as assistant professors. The neurosurgery team initially functioned under the administrative control of the department of General Surgery till 2008, when it was accorded the status of a full-fledged department. Dr. Hari and Dr. Shankar Ganesh subsequently joined as senior residents. Dr. Shankar Ganesh was appointed assistant professor in 2009 and in 2010 Dr. Venkatesh joined as assistant professor, bringing the faculty strength up to four. Dr. Shankar Ganesh resigned and was relieved of his responsibilities in 2012. Dr. Ramesh A. S. and Dr. Sathia Prabhu. A joined the department as assistant professors in 2013. The department functions as two units.

NS1—Dr. Roopesh Kumar V. R., Dr. Ramesh A. S. and Dr. Sathia Prabhu A.

NS2—Dr. Gopalakrishnan M. S. and Dr. Venkatesh S. Madhugiri

## EDUCATIONAL COURSES

- i. **Undergraduate courses**—Didactic lectures as well as modular teaching sessions are conducted every year for VI semester students. A clinical neuroanatomy module was commenced in 2014 for the second semester students with the collaboration of the department of anatomy.
- ii. **Postgraduate courses**—Training in the management of traumatic brain injury and spine injuries as well as exposure to elective neurosurgical procedures is part of the neurosurgery training imparted to MS General Surgery and MS ENT residents, both intra-mural and from other institutes.
- iii. **Higher specialty courses**—The MCh neurosurgery course commenced in 2010. The current intake is two candidates per year.
- iv. **PhD courses**—Faculty are involved as co-guides in the research of scholars of the PhD course in Pathology.
- v. **Other courses**—The department conducts didactic teaching sessions for BSc nursing students in the form of lectures and modular teaching. Besides this, training is also imparted to students of the Emergency Medicine Technology and Operation Theatre Technology courses.

## **CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT**

### ***Cadaver Workshop on Surgery of the Craniovertebral Junction and Posterior Approaches to the Cervical Spine***

The department of Neurosurgery, JIPMER had organized a 2 day workshop on surgery of the craniovertebral junction and posterior approaches to the cervical spine on the November 23 and 24, 2013 in collaboration with Medtronic Academia Medical Education. The aim of the workshop was to transfer knowledge of these advanced techniques to practicing spine surgeons by providing an opportunity to have a hands-on experience on cadavers as well as to witness live surgery.

### ***Organized Various Monthly Meetings on Behalf of Pondicherry Neuroscientists Association***

#### **Conferences/CMEs Attended by Faculty**

**Dr. V. R. Roopesh Kumar**, Addl. Prof. and HOD of Neurosurgery, has attended

#### **International**

- i. **15th WFNS World Congress of Neurosurgery (WFNS2013)**, held in Coex Convention center, Seoul, South Korea from September 8 to 13, 2013.

#### **National**

- i. **SKULL BASE 2013—16th Annual Conference of Skull Base Surgery Society of India**, held in PGI, Chandigarh from October 4 to 6, 2013
- ii. **NEUROPEDICON 2013, 24th Annual Conference of Indian Society for Pediatric Neurosurgery**, held in Udaipur from October 24 to 26, 2013
- iii. **CME on update in spinal disorders**, December 11, 2013, Institute of Neurology, Chennai
- iv. **1st Annual Sir Walter Dandy educational course on Neurosurgery**, held in Mamallapuram, Chennai from January 4 to 5, 2014.
- v. **ASSICON-2013, 27th Annual Conference of Association of Spine Surgeons of India**, held in Kolkata from January 23 to 25, 2014.
- vi. **ACNS course on Posterior fossa and Cerebellum**, February 15, 2014, Institute of Neurology, Chennai.
- vii. **CME on genodynamics of neurodevelopmental disorders**, Indira Gandhi Medical College, Pondicherry, March 8, 2014.

#### **Papers Presented**

- i. **Sub-axial cervical spine injuries—15th WFNS World Congress of Neurosurgery (WFNS2013)**, Seoul, South Korea September 8–13, 2013.
- ii. **Delivered “Dr. Achanta Lakshmiopathy oration” at Institute of Neurology, Madras medical college—“Cerebrovascular surgery—Past, Present, Future”—April 2013.**
- iii. **Neurosurgery Update: IMA meeting, Pondicherry, June 2013.**
- iv. **Surgery for prevention of Stroke, CME, PIMS, Pondicherry, November 1, 2013.**
  - v. **Neurosurgical update for practitioners—CME, St. Joseph of Cluny Hospital, November 10, 2013.**
- vi. **Spinal Vascular malformations—CME on Update in Spinal disorders, December 11, November 2013, Institute of Neurology, Chennai.**
- vii. **Posterior fossa vascular malformations—ACNS course on Posterior fossa and Cerebellum, February 15, 2014, Institute of Neurology, Chennai.**
- viii. **Update in Neurosurgery—Saveetha medical college, Chennai, February 18, 2014.**

- ix. Congenital anomalies of Central Nervous system—CME on Genodynamics of Neurodevelopmental disorders, Indira Gandhi Medical College, Pondicherry, March 8, 2014.
- x. Surgical Excision of Hypothalamic Hamartomas, 16th Annual conference of Skull base society of India, October 4–6, 2013, PGI, Chandigarh.
- xi. Cavernous sinus tuberculosis masquerading as meningioma, 21st Annual society of Indian society of Pediatric neurosurgical society, October 24, 2013, Udaipur.
- xii. Video presentation of surgical excision of Hypothalamic Hamartoma presenting with gelastic seizures, International society of Pediatric neurosurgery meeting, October 26, 2013, Udaipur.
- xiii. Atlanto Axial dislocation-Current strategies in management—27th Annual conference of association of spine surgeons of India Kolkata, January 25, 2014.
- xiv. Ventral foramen magnum schwannoma masquerading as meningioma, 16th Annual conference of Skull base society of India, October 4–6, 2013, PGI, Chandigarh.
- xv. January 1–5, 2013—Head injuries and implications—All India radio.
- xvi. April 20–27, 2013—Neurosurgery update, Doordarshan (Podhigai channel).
- xvii. December 21, 2013—Head injuries—Doordarshan (Podhigai Channel).
- xviii. December 28, 2013—Spinal injuries—Doordarshan (Podhigai Channel).
- xix. March 03, 2014—Hello Doctor programme interacting with audience (Right channel).
- xx. March 27, 2014—Head injury awareness programme in All India Radio.

**Dr. Gopalakrishnan M.S., Associate Professor of Neurosurgery, has attended**

- i. Attended **NSICON—2013—62nd Annual Conference of the Neurological Society of India** held in Mumbai from December 12 to 15, 2013.
- ii. Attended **Workshop on Clinical trials and meta-analysis**, held in CMC Vellore from March 24 to 28, 2014.

**Dr. Venkatesh S Madhugiri, Associate Professor of Neurosurgery, has attended**

- i. Workshop on **Microvascular Anastomosis and Temporal Bone Anatomy** conducted by the Seth G S Medical College and KEM Hospital in Mumbai, February 20–23, 2014, with Prof. Takanori Fukushima as course director.
- ii. The Joint Meeting of the **62nd Annual Conference of the Neurological Society of India** and the Pan Arab Neurosurgical Society held between December 11 and 15, 2013 at Mumbai, India.
- iii. **The Annual Conference of the Karnataka Academy of Neurosciences** held on the June 15 and 16, 2013 at the National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore, India.
- iv. **The 9th International Workshop on Endoscopic Endonasal Skull Base Surgery** organized at Jaipur between April 26 and 28, 2013. (Course faculty—Dr. Amin Kassam).

**Dr. Ramesh A.S., Assistant Professor of Neurosurgery, has attended**

- i. **The 9th International Workshop on Endoscopic Endonasal Skull Base Surgery, ENDO SKULL BASE 2013**, held at Jaipur, from April 26 to 28, 2013.
- ii. Invited faculty for **World Physical Therapy Day CME “Fitness in Rehabilitation”** and delivered a talk on **“A Neurosurgeon’s Perspective of Fitness in Spinal Cord Injuries”** held at JIPMER on September 8, 2013.

**Dr. Sathia Prabhu A., Assistant Professor of Neurosurgery, has attended**

- i. **Microneurosurgery and Neuroendovascular Workshop** conducted by Departments of Neurosurgery and Neuroradiology at Sri Sathya Sai Institute of Higher Medical Sciences, Bangalore from February 16 to 17, 2014.

## Research Projects

S. No.	Principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status
1.	Venkatesh S. Madhugiri	An evaluation of the utility of the finger flexion and Hoffman's reflexes in cervical myelopathy	2 years	None	Radiology	Completed
2.	Venkatesh S. Madhugiri	Measuring glioma volumes—a pilot study comparing linear measurement based formulae with the manual ROI based segmentation technique	1 year	None	None	Completed
3.	Venkatesh S. Madhugiri	An analysis of temporal patterns of citations in neurosurgical literature and description of a new inter-field citation metric	2 years	None	None	Completed
4.	Venkatesh S. Madhugiri	An assessment of the electrophysiologic and metabolic effects of surgical detethering of the spinal cord in patients with tethered cord syndrome—a prospective study injury (Dissertation of Dr. Ved Prakash, MCh resident)	2 years	Intra-mural, ₹ 1,20,000/-	Biochemistry, Neurology, Radiology	Started recruitment
5.	Gopalakrishnan M.S.	Randomised controlled trial of the efficacy of ampicillin versus ceftriaxone for prevention of meningitis in traumatic pneumocephalus	2 years	None	Radiology	Recruitment ongoing
6.	Gopalakrishnan M.S.	Randomised controlled trial of the efficacy of tranexamic acid for prevention of progression of conservatively managed brain contusions	3 years	None	Radiology	Recruitment pending clearance from Drug Controller General; IEC cleared
7.	Gopalakrishnan M.S.	Continuous Magnetic resonance imaging for neurosurgical patients: A feasibility study	1 year	None	Radiology	Not yet recruiting (IEC cleared)

(Continued)

S. No.	Principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status
8.	Gopalakrishnan M.S.	Predictive power of Index finger tapping speed on an I-phone application for return to work in mild head trauma patients	2 years	None	None	IEC cleared. Not yet recruiting
9.	Gopalakrishnan M.S.	Utility of bleed to brain ratio in CT scans of head trauma patients for predicting the need for operation and patient outcome (ICMR studentship project of Ms. Deeparaj, MBBS student)	2 months	None	None	ICMR cleared; IEC clearance pending
10.	Gopalakrishnan M.S.	A study of progression of traumatic intra-parenchymal hemorrhage over time in patients with traumatic brain injury (Dissertation of Dr. Pushkar, MCh resident)	2 years	None	Radiology	Ongoing
11.	Dr. Ramesh A.S.	Redox and inflammatory markers status and its association with neurological outcome in patients with head injury	1 year	Ongoing	Biochemistry	Under consideration by ethics committee
12.	Dr. Roopesh Kumar V.R.	Atlanto axial dislocation Current strategies in management injury (Dissertation of Dr. Satyajit, MCh resident)	2yrs	Ongoing	None	Recruitment ongoing
13.	Dr. Roopesh Kumar V.R.	Outcome of minimally invasive laminoforaminotomy in cervical disc disease (Dissertation of Dr. Tejus, MCh resident)	2 yrs	Ongoing	None	Recruitment going on

## PUBLICATIONS

### Dr. Roopesh Kumar V.R.

- i. Complete and curative excision of Hypothalamic Hamartomas via the orbito-zygomatic approach. **Roopesh Kumar V.R.**, Madhugiri V.S., Kamalanathan S.K., Srinivas B.H., Narayan S.K., and Bidakar P. *Neurol. India*. November–December 2013; 61(6): 690–1.
- ii. Cerebral revascularization with superficial temporal—middle cerebral artery anastomosis for complete carotid occlusion: An emerging modality for preventing recurrent stroke. **Roopesh Kumar V.R.**, Narayan S.K., Madhugiri V.S., Sasidharan G.M., Gundamaneni S.K. *Ann. Ind. Acad. Neurol.* October 2013; 16(4): 521–4.
- iii. Multifocal spinal malignant peripheral nerve sheath tumor in an immunocompromised individual: Case report and review of literature. **Roopesh Kumar V.R.**, Madhugiri V.S., Sasidharan G.M., Shankar Ganesh C.V., and Gundamaneni S.K. *Eur. Spine J.* November 2013; 20, [Epub ahead of print].
- iv. Vascular endothelial growth factor expression and angiogenesis in various grades and subtypes of meningioma. Dharmalingam P., **Roopesh Kumar V.R.**, and Verma S.K. *Ind. J. Pathol. Microbiol.* October–December 2013; 56(4): 349–54.
- v. Diagnostic Accuracy of Squash Preparations in Central Nervous System Tumors. Surendra Kumar Verma, **Roopesh Kumar**, Jonathan Srivani, and Jonathan Arnold. *Iran. J. Pathol.* 2013; 8(4): 227–234.

### Dr. Gopalakrishnan M.S.

- i. Trigeminal schwannoma of the sphenoid sinus—report of a rare entity. Gundamaneni S.K., Singh M., Shankar Madhugiri V., Vadivel Rathakrishnan R.K., and Madhavan Sasidharan G. *Br. J. Neurosurg.* April 2014; 28(2): 281–3.

### Dr. Venkatesh S Madhugiri

- i. Non infantile desmoplastic cerebellar ganglioglioma in a patient with multiple congenital anomalies—a rare association. Sudheer Kumar Gundamaneni, Shankar Ganesh C.V., Anita Mahadevan, Venkatesh S. Madhugiri, Gopalakrishnan M. Sasidharan, and Roopesh Kumar V.R. *Pediatric Neurosurg.* Published online January 2014, PMID: 24434936.
- ii. Endovascular therapy for acute stroke—quo vadis? Venkatesh S. Madhugiri, and Paritosh Pandey. *Ind. J. Neurosurg.* September 2013; 2(2): 119–123.
- iii. A technique to identify core journals for neurosurgery using citation scatter analysis and the Bradford distribution across neurosurgery journals. Venkatesh S. Madhugiri, Sudheer Ambekar, Shane F. Strom, and Anil Nanda. *J. Neurosurg.* 2013; 119(5): 1274–87, PMID: 24032696.
- iv. Congenital anomalies at the craniovertebral junction-posterior fossa region – report of two cases. Venkatesh S. Madhugiri, and Indira Devi B. *J. Neurol. Surg. A (Centr. Eur. Neurosurg.)* 2013; 74(Suppl. 1): e279–83, PMID: 23959613.
- v. Spinal aneurysms—Clinico-radiologic features and management paradigms: a systematic review of literature. Venkatesh S. Madhugiri, Sudheer Ambekar, Roopesh Kumar V.R., Gopalakrishnan M. Sasidharan, and Anil Nanda. *J. Neurosurg-Spine.* 2013 July; 19(1): 34–48, PMID: 23621642.
- vi. The pterional and suprabrow approaches for aneurysm surgery—a systematic review of intraoperative rupture rates in 9488 aneurysms. Venkatesh S. Madhugiri, Sudheer Ambekar, Anil Nanda, Paritosh Pandey, Bharat Guthikonda, Papireddy Bollam, Benjamin Brown, Osama Ahmed, Ashish Sonig, and Mayur Sharma. *World Neurosurg.* 2013; 80(6): 836–44, PMID: 23459280.
- vii. Opportunistic Fonsecaea pedrosoi brain abscess in a patient with non-cirrhotic portal fibrosis induced hypersplenism- a novel association. Venkatesh S. Madhugiri, Rakesh Singh, Mukta Vyavahare, Ranjit Vijayahari, Gopalakrishnan M. Sasidharan, Roopesh Kumar V.R.,

## Neurosurgery

Rakesh Singh, Sajini E. Jacob, Surendra K. Verma, Ramesh Ananthkrishnan, Awdhesh K. Yadav, and Sudheer K. Gundamaneni. *Br. J. Neurosurg.* October 2013; 27(5): 690–3, PMID: 23458558.

- viii. Acute pyogenic necrotizing encephalomyelitis—a fulminant and fatal infection. Venkatesh S. Madhugiri, Gundamaneni S.K., Vani Santosh, Barath Jagadisan, Gopalakrishnan M.S., Roopesh-Kumar V.R., Awdhesh Kumar Yadav, Manish Singh, Ananthkrishnan Ramesh, Nisha Pariarath, and Niranjana Biswal. *J. Neurosurg. Pediatrics.* May 2013; 11: 591–5, (PMID: 23495810).

### Dr. Ramesh A.S.

- i. Acute onset of hemiparesis after gamma knife radiosurgery for arteriovenous malformation caused by hyperacute thrombosis of draining vein: A case report. Ramesh A.S., Arimappamagan A., Bhat D., Arvinda H.R., and Somanna S. *J. Neurol. Surg. A Cent. Eur. Neurosurg.* December 2013; 74(Suppl. 1): e261–5, doi: 10.1055/s-0033-1349334. Epub August 1, 2013.

## PATIENT CARE SERVICES

- i. Process of establishing an advanced cadaver lab facility is on-going.
- ii. Cerebral revascularisation procedures for stroke by performing EC-IC bypass for complete internal carotid occlusion—A complex vascular procedure performed in a select few centers in the country.
- iii. Endoscopic neurosurgery program has been established with a multi-disciplinary team in collaboration with the ENT department.

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

### Roopesh Kumar V.R.

- i. Best paper award for Surgical Excision of Hypothalamic Hamartomas, 16th Annual conference of Skull base society of India, October 4–6, 2013, PGI, Chandigarh.
- ii. Receipt of Sri Marudha Ramalinganar award for Best Doctor in union territory of Pondicherry, June 2013.
- iii. Recipient of Jaycee award for outstanding public service in Pondicherry by junior chamber international organization, September 2013.
- iv. Was conferred the orator award for Dr. Achanta Lakshmiopathy oration, Institute of Neurology, Madras medical college—April 2013.
- v. Organizing secretary of 16th annual conference of Skull Base society of India at Jipmer, October 9th–12th.
- vi. Was instrumental in establishing dedicated Neurotrauma intensive care unit which was inaugurated in February 2014.
- vii. Received nationwide recognition following press release after successful excision of hypothalamic hamartoma and cure of precocious puberty in a young boy.

## ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL RESEARCH AND OTHER ASSIGNMENTS

### Dr. Roopesh Kumar V.R. has been Member of the

- i. Secretary of Pondicherry Association of Neuroscientists.
- ii. Executive member of skull base society of India.
- iii. Vice-President of JIPMER scientific society.
- iv. Member of Equipment requirement and review committee.



- v. Member of Hospital utilities and drug purchase committee.
- vi. Member of Telemedicine committee.
- vii. Member of Brain death committee.
- viii. Member of PhD monitoring committee.
- ix. Institute representative for MBBS entrance examination at Kolkata center, June 2013.
- x. Institute representative for MD/MS entrance examination at Trivandrum center, February 2014.
- xi. External examiner for MCh examination for Sri Chitra Institute of Medical Sciences, Trivandrum.
- xii. External expert to inspect private medical colleges in Pondicherry by Pondicherry university for starting MCh course in Neurosurgery.
- xiii. External expert in Committee formed by Ministry of Health to oversee equipment purchase for up gradation project of Madurai Medical College and Govt Rajaji Hospital.
- xiv. Expert examiner for setting questions for various MCh entrance examinations.
- xv. Reviewer of various peer reviewed national and international journals-British medical journal, Global spine journal, Indian journal of neurosurgery, Narayana medical journal, etc.

### **Dr. Venkatesh S. Madhugiri has been Member of the**

- i. JIPMER Website redesign committee.
- ii. Committee for brain death certification for organ retrieval for transplantation.

### **Dr. Gopalakrishnan M.S.**

- i. Has been a member of the Jipmer Quality Council.
- ii. Advisory member of Jipmer Information Technology Services.
- iii. Successfully implemented online, google form based weekly mortality and morbidity analysis with rapid response capability for actionable analysis of data in the department.
- iv. Nearly completed installation of Research Protocol Management System which has been obtained from National Institute of Health, USA.
- v. Organized focused group discussions and conducted a speech competition on the occasion of **Patient Safety Week from November 18 to 24, 2013.**
- vi. Created the “**Singularity Form**” which is macro enabled Microsoft word document template containing all the myriad investigation forms used in JIPMER for clear and quick raising of printed investigation requests using auto filling form fields.

### **Dr. Ramesh A.S.**

- i. Faculty for the Emergency Medical Technician Certificate Course (EMTC) students pertaining to module five, organized teaching sessions, coordinated the course and conducted internal assessment (both theory and practical) for these students in the Department of Neurosurgery, JIPMER.
- ii. Prepared guidelines and insurance packages for elective and emergency neurosurgical procedures, under Chief Minister’s Comprehensive Health Insurance Scheme (CMCHIS).

(Dr. V.R. Roopesh Kumar)  
Addl. Prof. and HOD of Neurosurgery

# Nuclear Medicine

## FACULTY LIST

- |                         |   |                                                           |
|-------------------------|---|-----------------------------------------------------------|
| 1. ADDITIONAL PROFESSOR | : | Nandini Pandit                                            |
| 2. ASSOCIATE PROFESSOR  | : | Dhanapathi Halanaik                                       |
| 3. ASSISTANT PROFESSOR  | : | i. Madhusudhanan Ponnusamy<br>ii. Madhur Kumar Srivastava |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department is functional from March 2010 with the state of art SPECT CT dual head Gamma camera and caters to Nuclear Medicine imaging and therapy involving radioiodine treatment for hyperthyroidism and low dose therapy for differentiated thyroid carcinoma patients and bone pain palliation with samarium-153. Thyroid uptake probe for the evaluation of thyroid patients has been installed in March 2014. Department has started new diagnostic and therapeutic procedures like Radiation Synovectomy, Neuroendocrine tumor imaging with Technetium labeled agents and Brain perfusion imaging for movement disorder. Patients are referred from the broad and super specialty departments of JIPMER and the hospitals in Puducherry and the surrounding districts of Tamil Nadu. Department is also running B.Sc. Nuclear Medicine Technology—a 3 years undergraduate course from the 2012–2013 academic year. In 2013–2014 academic session two seats for MD in Nuclear Medicine has been approved by the Academic Committee.

## EDUCATIONAL COURSES

### *Under graduate Courses*

- i. B.Sc. Nuclear Medicine Technology (NMT)

### *Post Graduate Courses*

- i. MD Nuclear Medicine

## CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT

None

## CONFERENCES AND CMES ATTENDED BY FACULTY

Dr. Dhanapathi Halanaik, Associate Professor

## CONFERENCES AND CME ATTENDED

- i. Nuclear Cardiology society of India IX Biennial conference October 25–27, 2013, Chennai.
- ii. Fourth Short Course on Basic Epidemiology, JIPMER, November 4–8, 2013.
- iii. SNMICON-2013 from December 12 to 15, 2013.

**Guest Lecturer Delivered**

- i. Topic: 'Myocardial Perfusion SPECT imaging in the Preoperative Risk Assessment'  
Venue: Nuclear Cardiology society of India IX Biennial conference October 25–27, 2013, Chennai.
- ii. Topic: Role of Nuclear medicine in orthopedics  
Venue: "Post graduate certificate course in orthopedics", on January 9, 2014 at JIPMER.

**Dr. Madhusudhanan Ponnusamy**

- i. Thirty Eighth Six Sigma Green belt certification course at Anna University TVS Centre for Quality Management, Guindy, Chennai from 7th to 9th March and from March 15th to 17th, 2014.
- ii. Fifty Eighth Training Course on "Radioimmunoassay and its applications" at BRIT/BARC, Vashi Complex, Navi Mumbai from March 18 to 29, 2014.

**Dr. Madhur Kumar Srivastava**

Attended and presented a paper the 45th Annual Conference of the Society of Nuclear Medicine held in Mumbai held from December 12 to 15th 2013.

**Dr. Nandini Pandit**

- i. Attended and chaired a session in the First Annual Conference of South India Society of Nuclear medicine held at Kovai Medical Centre and Hospital, Coimbatore from August 16–18, 2013.
- ii. Attended and chaired a session in the 45th Annual Conference of the Society of Nuclear Medicine held in Mumbai held from December 12–15, 2013.

**Research Projects**

S. No.	Name of principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions	Status
1.	Dhanapathi Halanaik	Additional value of hybrid SPECT/CT in the evaluation of indeterminate lesions detected on bone scan in patients with known history of primary malignancy.	2 years	Fund not availed	JIPMER	Ongoing
2.	Nandini Pandit	Standarisation of Gastric Emptying time For Normal South India Population.	2 years	Funds not availed	Intradepartmental	Ongoing
3.	Madhur Kumar Srivastava	Differentiation of movement disorders by diagnostic criteria and its correlation to <sup>99m</sup> Tc TRODAT scan pattern	2 years	Intramural 2 lakhs	Interdepartmental	Ongoing
4.	Madhusudhanan Ponnusamy	Implemantation and Qualitative Evaluation of Bar Code Assisted Identification System in the Department of Nuclear Medicine	6 months	Intramural 15,000/-	Interdepartmental	Ongoing
5.	Madhusudhanan Ponnusamy	Quarter time acquisition of bone SPECT CT using 3D reconstruction algorithm and comparison of image quality with full time acquisition	2 years	None	Interdepartmental	Ongoing

## PUBLICATION

### *Journals*

1. Kamath, Sudha D., Sujatha Bhat, K. Rajesh, K. Srujan, R. Vrunda, and Nandini Pandit. "Absorption Spectroscopy for the Quantification of Serum Thyroglobulin and Thyroglobulin Antibody Levels in Differentiated Thyroid Carcinoma Patients: A Pilot Study." *Journal of Medical Imaging and Health Informatics* 4, no. 2 (2014): 262–266.
2. Sukumar SP, Balachandran K, Jayakumar, Kamalanathan S, Sahoo JP, Das AK, Halanaik D. Congenital hypothyroidism—An usual suspect at an unusual age: A case series. *Ind. J. Endocrinol Metab.* 2013 Oct;17(Suppl 1):S184–S187.
3. Jain AS, Pawaskar AS, Srivastava MK, Elangovan IM, Shelley S. Monoarticular carcinomatous knee joint arthritis as an initial presentation of cervical carcinoma. *J. Obstet Gynaecol Res.* 2013; 39(10):1488–1491

## PATIENT CARE SERVICES

*Statistics attached ANNEXURE I*

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

NA

## ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

## SIGNIFICANT EVENTS IN THE DEPARTMENT

Department has started new diagnostic and therapeutic procedures of Radiation Synovectomy, Neuroendocrine Tumor Imaging with technetium labeled tracers and Brain perfusion imaging for movement disorders.

Isolation wards for the treatment of Carcinoma Thyroid and Neuroendocrine tumor are being made. The PET CT turnkey project will be completed by 2015 April.

# Obstetrics and Gynaecology

## FACULTY LIST

- |                         |   |                                                                                                                                                                                                    |
|-------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. PROFESSORS           | : | i. Dr. S. Soundararaghavan (Head of the department)<br>ii. Dr. S. Habeebullah (Head WCH)<br>iii. Dr. P. Reddi Rani<br>iv. Dr. Dasari Papa<br>v. Dr. Latha Chaturvedula<br>vi. Dr. Gowri Dorairajan |
| 2. ADDITIONAL PROFESSOR | : | Dr. Jayalakshmi. D                                                                                                                                                                                 |
| 3. ASSOCIATE PROFESSORS | : | i. Dr. Manikandan. K<br>ii. Dr. Haritha. S<br>iii. Dr. Veena K<br>iv. Dr. Dilip Kumar Maurya<br>v. Dr. Kubera N. S.                                                                                |
| 4. ASSISTANT PROFESSORS | : | i. Dr. Anish Keepanasseril<br>ii. Dr. Sasirekha R<br>iii. Dr. Chitra T Dr. Mamatha Gowda                                                                                                           |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Obstetrics and Gynaecology delivers high quality patient care simultaneous with intensive academic and research activities. The department consists of 4 units with 15 consultants and senior residents. Each year eight postgraduates were inducted into the MS Obstetrics and Gynaecology postgraduate programme. Since 2011 the postgraduate seats have increased to 13.

On an average 1,20,000 outpatients and 20,000 In-patients are treated per year. The average number of deliveries and major surgeries per year are over 13,000 and 1,200 respectively.

The department is equipped with state of the art facilities for the assessment of the fetus and management of high risk pregnancy, screening and early diagnosis of cervical cancer through Pap smear and colposcopy, performing minimally invasive surgeries and procedures through the use of laparoscope, basic management of problems of infertility including microsurgery, and treating gynaecological cancers through oncologic surgeries and chemotherapy.

Undergraduate MBBS students are taught through bedside clinical classes, small group demonstrations, symposia, tutorials and theory lectures in addition to observing of operative techniques in the Operation Theatres. They are posted in rotation to labour room in 8th and 9th semesters for 10 days each where they acquire skills for labour room management. Theory classes are also taken for the nursing students.

Postgraduates undergo rigorous training in all aspects of Obstetrics and Gynaecology. Regular lecture classes, bedside clinics, journal clubs and symposia form part of their training in addition to practical training under supervision in the labor ward and operation theatres.

## Obstetrics and Gynaecology

The department is equally involved in high quality research. Each Postgraduate carries out a dissertation as part of the postgraduate programme under the guidance of the faculty. In addition, the faculties are also involved in ongoing research projects and produce a number of publications in indexed journals and contribute/edit chapters to textbooks. It is also a centre for postpartum programme and a Human Reproductive Research Centre under the ICMR.

### EDUCATIONAL COURSES

#### **Undergraduate course**

MBBS

#### **Postgraduate course**

MS, Obstetrics and Gynaecology

#### **Other courses- contributes in the training of the following courses**

M.Sc. Nursing  
B.Sc. Nursing  
B.Sc. OT Technology  
EMT Certificate course

### CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT

- i. Oncology conference AGOICON held by the department of Obstetrics and Gynaecology JIPMER on 8–9 November, 2013
- ii. CME/Workshop “JIPMER Obstetrics critical Series 2014” with the theme: Basic hemodynamic Monitoring. 25th January 2013.

### CONTINUING MEDICAL EDUCATION PROGRAMMES AND CONFERENCES

#### **Dr. S. Habeebullah**

- i. Resource person for Case Discussion on “Ist Trimester Bleeding” and “Ca Cx” at BSOG-CME-2013, Bengaluru
- ii. Participated in panel discussion on Gestational trophoblastic disease and judged papers for award of fellowship at the National Update in’ Gynaec Oncology and “YGOG SUMMIT” Conference on 27th of July, 2013 (Kidwai Memorial Institute of Oncology), Bengaluru.
- iii. Conducted panel discussion on preterm labour on August, 19 2013 at YUVA FOGSI-SOUTH ZONE-2013 at Trichy.
- iv. Conducted case discussions and ward rounds for PGs at FOCUS-2013, Trichur on 26 August 2013.
- v. Delivered a lecture on ‘Common ailments in Obstetrics and Gynaecology’ during the National Workshop on Management of Obstetrical and Gynaecological Disorders in Siddha on 22nd February, 2014 at Siddha regional Institute, Puducherry.
- vi. Resource person for PG Case discussions at Department of Obst. and Gynae. G. Kuppuswamy Naidu Memorial Hospital, Coimbatore on February, 23 2014.
- vii. Attended Annual Conference of Indian Society of Perinatology and Reproductive Biology (ISOPARB— 2014) held at Pune from March 14 to 16, 2014.
- viii. Attended RCOG World congress 2014 work shop on fetal medicine held at Hyderabad from March 27 to 30, 2014. Coauthor of a poster titled “Mode of delivery and perinatal outcome in Eclampsia”

**Dr. Soundara Raghavan**

- i. Attended Progress 2013 from July 25 to 28 at Chennai
- ii. FOGSI-FIGO International Conference on Recent Advances in Obstetrics and Gynaecology from 12th to 15th September
- iii. AGOICON from 8th to 10th November.
- iv. Workshop on Obstetric Intensive care

**Dr. Dasari Papa**

- i. Delivered Lead talk on Caesarean on Demand in JSS JIPMER on 13/8/2013
- ii. Presented a paper on: ASCUS/ASC-H: Colposcopic evaluation at tertiary care Institute in developing country in AGOICON November 2013.
- iii. Presented a paper on “Maternal Mortality and its relationship to EmOC in tertiary care Institute in South India” in International Summit on Emergency medicine and Trauma 2014 on 14/2/14 at JIPMER.
- iv. Delivered a talk on “Prevention of Carcinoma Cervix” CME Gynecon 2014 held at Vikhe Patil Institute of Medical Sciences, PUNE on 28/2/14
- v. Delivered a talk on ‘HIV in Pregnancy: Management Guidelines’ on 23/3/14 in FOGSI meet held at JIPMER.
- vi. Resource person for Colposcopy Workshop AGOICON 2013.
- vii. Participated in a Panel Discussion—Labour Congress held in Coimbatore 29–30 June 2013—Triage in Obstetric setting and Management of High risk pregnancy
- viii. Attended 2nd Conference on Current Practices and Recent Advances in ART, at New Delhi, 26.10.2013 and 27.10.2013
- ix. Attended Chettinad National fertility Colloquium at chettinad Hospital and Research Institute, Chennai. 29.9.2013
- x. Attended Seminar on Translational Research, JIPMER 24/1/14
- xi. Attended Workshop on Colposcopy-AGIOCON 2013
- xii. Attended Workshop on Labour- Labour congress Coimbatore
- xiii. Attended Leadership in Emergency Medicine Workshop—ISEMT 2014
- xiv. Attended Monothematic workshop on Brain Death 21/9/2013
- xv. Peer Reviewer during 2013–2014 IBIMA Publishing Journal.; Journal of Obstetrics and Gynecology; Indian journal of Medical research, Archives of Medical Sciences

**Dr. Latha Chaturvedula**

- i. Panelist for discussion on Obstructed labour at Trichy in August 2013
- ii. Clinical case discussions at FOCUS 2013 a PG programme in Thrissur, Kerala in August 2013
- iii. Organized as Joint secretary AGOICON 2013, Gynae oncology Conference at JIPMER from 6th – 8th November 2013
- iv. Participated in the workshop on quality council of JIPMER Pondicherry in November 2013.
- v. Attended RCOG world Congress at Hyderabad in March

**Dr. Gowri D**

- i. Organized the “Paps Week” from 19-01-2014 till 25-01-2014. A “walk in” Pap smear program for eligible women. (January being cancer cervix awareness month).
- ii. Was a resource person for CRITICAL CARE CME organized by the department on the 25th of January 2014.
- iii. Attended “Advances 2013” and endoscopy workshop held at Trivandrum from 29th August to 1st September 2013.

- iv. Attended conference PACE on emergency medicine held at JIPMER auditorium on 7th september 2013 and delivered a talk on “Management of Eclampsia”.
- v. Attended oncology conference AGOICON held by the department of Obstetrics and Gynaecology JIPMER on 8–9 November 2013.
- vi. Attended the conference ISEMT on Emergency Medicine held from 12th<sup>s</sup> to 15th February 2014, by JIPMER. Attended the workshop on “work flow Process”, Presented poster on ‘Haemorrhagic fate; peripertum dengue fever a chameleon: report of two cases’ and delivered talk on “Emergency delivery: three daunting scenarios”.
- vii. Attended the world congress RCOG 2014 held at Hyderabad from 26th to 30th March, 2014. Presented E-poster: “Influence of awareness and attitude about anaemia and iron supplements on prediction of anaemia among pregnant women”. This poster was shortlisted among the best 20.

### Dr. Jayalakshmi

- i. RCOG CONFERENCE DELHI, AUGUST 2013
- ii. RCOG WORLD CONGRESS- MARCH 2014

### Dr. Manikandan, K

- i. XXIII Annual Conference of the Association of Gynaecologists of India -AGOICON 2013, International Conference, JIPMER November 8–10, 2013.
- ii. ISEMT 2014, International Summit on Emergency Medicine and Trauma 2014, JIPMER, International Conference, JIPMER, February 14–16, 2014
- iii. USCON XXII, Pondicherry—Annual conference of the Indian Federation of Ultrasound in Biology
- iv. Preceptor Workshop Series: Fetal Cardiology, Bangalore, August 2013
- v. International Educational Course: Fetal Medicine, Bangalore, May 2013

### Dr. Haritha Sagili

- i. Member of Finance and Registration Committee- International Summit on Emergency Medicine and Trauma. Pondicherry, India, Feb 2014
- ii. Presented a paper on Comparison of WHO with ADA criteria for the diagnosis of GDM. RCOG WORLD CONGRESS 2014, Hyderabad, India, March 2014.
- iii. Presented a paper on Perioperative Morbidity of Endometrial Cancer: A 5 year Review In A Tertiary Care hospital in South India, AICC RCOG conference, New Delhi, August 2013.
- iv. Gave a talk Medical management of diabetes mellitus in pregnancy OGSP, JIPMER, India. July 2013
- v. Poster presentation- Fimbrial cyst torsion and krukenberg tumor –an unusual presentation Hanumanth V, Sagili H, Papa D. AGOICON, JIPMER, Pondicherry. Nov 2013.

### Dr. Veena

- i. CME's conducted by OGSP Pondicherry
- ii. CME on “Rational use of blood components” conducted by Department of Transfusion Medicine, JIPMER.
- iii. IAGE Bengaluru in June 2013 (as a delegate)
- iv. PROGRESS Chennai in July 2013 (as a delegate) ADVANCES Trivandrum in August 2013 (as a delegate)
- v. PACE 2013 Pondicherry in September 2013 (as faculty)
- vi. RCOG World Congress Hyderabad in March 2014 (presented e-poster)



**Dr. Dilip Kumar Maurya**

- i. CME's conducted by OGSP Pondicherry,
- ii. "MedEqSafe-India 2014, Raising awareness regarding medical Equipment Safely" held at JIPMER, Puducherry on 24 February, 2014.
- iii. Workshop on Curriculum development for BSC OT Technology student by Medical education department, JIPMER, 25 January, 2014.
- iv. Attended the CME/Workshop "JIPMER Obstetrics critical Series 2014" with the theme: Basic Hemodynamic Monitoring, 25 January, 2013.
- v. Participated as a panelist in USCON XXII, Pondicherry—Annual conference of the Indian Federation of Ultrasound in Biology.
- vi. AGOICON- 2013, XXII Annual Conference and pre congress workshop of Association of Gynaecologic Oncologists of India held in Puducherry on Nov 8th to 10th 2013.

**Dr. Kubera, N.S.**

- i. "Workshop on Question Paper Setting" on 7 July, 2013 held at JIPMER.
- ii. "Monothematic workshop on Brain Death" held at JIPMER on 21 September, 2013
- iii. "MedEqSafe-India 2014, Raising awareness regarding medical Equipment Safely" held at JIPMER, Puducherry on 24 February, 2014.
- iv. Monthly meeting/CME held by OG society of Puducherry.
- v. "Rational use of blood components" conducted by Department of Transfusion Medicine, JIPMER on 18, January, 2014.
- vi. USCON XII, XII National conference and pre congress workshop of the Indian Federation of Ultrasound in Medicine and Biology, held in Puducherry on 25 to 27, October 2013.
- vii. AGOICON- 2013, XXII Annual Conference and pre congress workshop of Association of Gynaecologic Oncologists of India held in Puducherry on November 8 to 10, 2013.
- viii. FERTIVISION-2013, Annual conference and pre congress workshop on Indian fertility Society held in New Delhi on 6 to 8 December 2013.
- ix. ISAR-2014, 19th National conference and pre congress workshop of Indian Society of Assisted Reproduction held in Ahmedabad February 14 to 16, 2014. (presented – poster)
- x. HYFICON-2013, International live workshop and conference on FIBROIDS AND HYSTERECTOMY, held in Cochin on 27, 28 and 29 September, 2013

**Dr. Anish Keepanasseril**

- i. Presented free communication entitle External Cephalic Version, An effective tool to limit the rising cesarean rates: Retrospective Cohort study and Attended the AICC RCOG Annual Conference, New Delhi. August 2013.
- ii. Attended the Programme on Advances in Critical Care and Emergency, 5th. National annual conference, (PACE 2013), Pondicherry. Sept 2013.
- iii. Attended the International Summit on Emergency Medicine, JIPMER Pondicherry, February 2014
- iv. Presented poster on "Sildenafil in the Management of Pulmonary Hypertension in Pregnancy: A Report of Two Cases." In 3rd Cardiac Disorders in pregnancy. February, 2014

**Dr. Sasirekha**

- i. Attended CMEs organized by OGSP
- ii. Attended Basic epidemiology workshop, JIPMER November 2013
- iii. ANNUAL CONFERENCE OF ASSOCIATION OF GYNAECOLOGIC ONCOLOGISTS OF INDIA, (AGOICON), JIPMER November 2013 Presented a poster on Germ cell tumours—5 year retrospective study and was awarded second prize.
- iv. Participated in the workshop on quality council of JIPMER Pondicherry in November 2013.

- v. Participated as a resource person in JIPMER Obstetric Critical Care series workshop, JIPMER January 2014
- vi. Poster presentation- Rare case presentation—Complication of uterine compressive sutures and uterine devascularization—An Obstetric nightmare Got published in BJOG online supplement April 2014) March 2014, RCOG world congress, Hyderabad
- vii. Poster presentation Mode of delivery and prenatal outcome in Eclampsia March 2014, RCOG world congress, Hyderabad

### Dr. Chitra

- i. JIPMER Quality council (JQC) CME and Workshop on Patient Safety—participated as a delegate in the CME and Workshop on Patient safety organized by JQC on 23 and 24 November 2013 at JIPMER.
- ii. Workshop on Question Paper setting on July, 7th 2013 held at JIPMER, Puducherry.
- iii. Attended CME ‘Rational Use of Blood and Blood components’ held at JIPMER
- iv. AOCOG 2013 – The 23rd Asian and Oceanic Congress of Obstetrics and Gynaecology—participated as delegate, Bangkok, Thailand. presented poster on: “Laparoscopic Myomectomy: Aqua-dissection technique in reducing blood loss” Oct 2013.
- v. Attended “HYFICON”- International Live Workshop and Conference On Fibroids and Hysterectomy” Held at Le meridian, Cochin. Kerala Sept 2013
- vi. May 2013-Indian Association of Gynaecological Endoscopists—IAGE – participated in Annual Conference and workshop on Recent Advances In Gynaecological Endoscopy in Bengaluru. presented the Free paper “Day Care Laparoscopic Myomectomy” and won II BEST Paper Award
- vii. AOCOG 2013—The 23rd Asian and Oceanic Congress of Obstetrics and Gynaecology—participated as delegate and
- viii. Attended 19th National congress of Indian Society For Assisted Reproduction (ISAR 2014), Feb 2014. Ahmedabad, Gujrat and presented poster on “Endometrial patterns in infertile women”
- ix. Presented a poster on “Rare case of Leiomyosarcoma of the ovary- Case Report”
- x. Annual Conference of Association of Gynaecologic Oncologists of India, (Agoicon), Jipmer November 2013.

## RESEARCH PROJECTS

### Publications

1. K Manikandan, Dasari Papa, Sagili H. Third trimester uterine rupture following hysteroscopic septoplasty: the need for standardization of indications. *J. Gynecol. Surg.* February 2014, 30(1): 20–23. doi:10.1089/gyn.2013.0033
2. Sagili H, Yeldho V, Papa D. Multiple Ileal Perforations following dilatation and evacuation for missed abortion. *J. Clin. Diag. Res.* [serial online] 2014 January [cited: 2014 Mar 2 ]; 8:326.
3. Aishwarya S, Rajendiren S, Kattimani S, Dhiman P, Haritha S, Ananthanarayanan PH. Asian Homocysteine and serotonin: Association with postpartum depression. *J. Psychiatr.* 2013 Dec; 6(6):473–477. doi: 10.1016/j.ajp.2013.05.007. Epub 2013 Jun 14.
4. Sagili H, Krishnan Papa D. Huge bilateral Paramesonephric Cysts in a 25 year old nulliparous woman. *J. Clin. Diagn. Res.* 2013 Nov; 7(11):2589–2590. doi: 10.7860/JCDR/2013/6563.3597. Epub 2013 Nov 10.
5. Sagili H, Singh P, Papa D, Manikandan K. Vaginal Delivery after Augmentation Cystoplasty and Mitrofanoff’s Procedure for traumatic bladder neck transection. *J. Obstet. Gynaecol.* 2013 Oct; 33(7):740. doi: 10.3109/01443615.2013.817385.
6. Sadish Kumar, DM Mahesh, G Vignesh, Haritha Sagili, H Dhanapathi, Abdoul Hamide. Congenital Hypothyroidism Presenting as Menorrhagia in Adulthood. *JAPI.* Sept 2013; vol. 61:72–73.

7. Sagili H. Attitude of undergraduate medical students towards power point, overhead projector and chalkboard teaching. Does it matter? *NTTC Bull.* 2013, 1: 5–7.
8. Sagili H, Rani R. Preoperative methotrexate in broad ligament pregnancy. *J. Gynecol. Sur.* April 2013, 29(2): 102–104. doi:10.1089/gyn.2012.0074.
9. Reddi Rani P. Ovarian Hyperstimulation syndrome. *Curr. Med. J. India.* 2013, 21(1):49–52.
10. Kalaranjini S, Veena P and Reddi Rani, P. Comparison of administration of single dose ceftriaxone for elective cesarean section before skin incision and after cord clamping in preventing post-operative infectious morbidity. *Arch. Gynecol. Obstet.* doi: 10.1007/S00404-013-2906-9 Pub Online 29.05.2013.
11. Reddi Rani P. Medical abortion. *Curr. Med. J India*, vol XIX No3, 2013. 13–17
12. Latha E, Reddi Rani P. Comparitive study of oral and vaginal misoprostol for cervical ripening prior to first trimester suction evacuation. *Int. J. Reprod. Contracept. Obstet. Gynecol.* 2013, 2(4):573–576.
13. P. Reddi Rani, R. Sasirekha. Choice of contraception in HIV infected women. *Ind. Obstet Gynaecol (Journal for Basic & Clinical Research)* 2013, 3(4):29–33
14. Sasirekha R, P. Reddi Rani, D. Biswajith, G. Premapriya, S. Kalaivani. Germ cell Tumors- a five year retrospective study. *JIPMER. J. Cancer.* 2014, 3(1): 21–28
15. S. Kamath, P. Veena R. Rani. Comparison of nifedepine and progesterone for maintenance tocolysis after arrested preterm labour. *J. Obstet. Gynaecol.* 2014, Early online: 1–4, Downloaded from <informahealthcare.com> by 117.216.15.61 on 6th February, 2014.
16. Sasirekha R, Reddi Rani P, Biswajith, Premapriya T. Germ cell tumours –A 5 year retrospective study. *JIPMER J. Cancer* 2014, 3.
17. Kundra P, Veena P. General endotracheal anaesthesia for lower segment cesarean section: a vanishing art? *OA Anaesthetics* 2013 Apr 01: 1(1): 7.
18. Niyaz A, SK Mishra, P Kundra, Veena P, Soundara Raghavan S, Habeebullah S Obstetric Patients Requiring Intensive Care: A One Year Retrospective Study in a Tertiary Care Institute in India. *Anesthesiology Research and Practice* 2014, Article ID 789450
19. Gowri D, Himabindu N, Ramachandra V Bhat. “Can treatment for polycystic ovarian disease induce ovarian tumor? A case report and review of literature”. *J. Clin. Diag. Res.* 2014 Jan, 8(1): 191–192.
20. Gowri Dorairajan, N. Hima Bindu and Priyadharshini Perumal. “Unusual Complication of Incarcerated Uterovaginal Prolapse: A Case Report”. 2014 - Volume 4/1; January:314–321. doi : 10.9734/BJMMR/2014/5467
21. Devi R, Gowri Dorairajan and Kasthuri, T. B. Estimation of Fetal Weight in peripartum period: Most Reliable Method. *IJMCH Ind. J. Mater. Child Health.* 15(1), 2013:1–7.
22. Papa dasari, Khuman Victor. Risk factors for morbidity and mortality in eclampsia. *Int. J. Gynaecol. Obstet. India.* 2013; 16: 178–183.
23. Papa dasari and Shyjus P. Pregnancy outcome in young patient with Scleroderma. *J. Obstet Gynaecol Ind.* 2013; 63: 206–208.
24. Papa Dasari, Sathyalakshmy Balusamy. Portal vein thrombosis during pregnancy. *BMJ. Case. Rep.* 2013. doi:10.1136/bcr-2012-008325.
25. Papa dasari. Manikandan K, Haritha S, Arpitha Anantha Raju, Verma S. Malignant Transformation of Omental Endometriosis Presenting With Neurological manifestations. *JSM. Clin. Case. Rep.* 2013; 1: 1010.
26. Papa Dasari. Recurrent Vesicular mole consequetively for the seventh time- Case report. *The Antiseptic.* 2014;111;143–144.
27. Papa Dasari, Sathyalakshmy Balusamy. Splenic vein thrombosis during pregnancy: a cause for maternal death. *Int. J. Gynecol. Obstetrics India,* 2014;17:67–69.
28. Selvi K, Badhe BA, Papa D, Nachiappa Ganesh R. Role of p16, CK17, p63, and Human Papillomavirus in Diagnosis of Cervical Intraepithelial Neoplasia and Distinction From Its. *Int. J. Surg. Pathol.* 2013 Jul 24.

## Obstetrics and Gynaecology

29. Sudarshan K, Papa Dasari, Bhavana Ashok B. Screening for “Subclinical Consumptive Coagulopathy” in hypertensive disorders of pregnancy by platelet count-an ICMR student project. *Int. J. Obstetrics. Gynecol.* India 2013;16: 117–121.
30. Sivaranjani R, Jaisankart, Thappa DM, Chandrasekhar L, Malathi M, Parija S, Habeebullah S. Spectrum of vaginal discharge in a tertiary care setting. *Trop. Parasitol.* 2013; 39:135–139.
31. Saranya K, Pal GK, Habeebullah S, Pal P. Assessment of cardiovascular autonomic function in patients with polycystic ovary syndrome. *J. Obstet. Gynaecol. Res.* 2014; 40:192–199.
32. SivaranjaniR, Jaisankar TJ, Thappa DM, Kumari R, Chandrasekhar L, Malathi M, Parija SC, Habeebullah S. Trichomoniasis: How do we diagnose in a resource poor setting? *Ind. J. Sex. Transm. Dis.* 2013; 34: 25–31
33. Sarah Ramamurthy, Parkash Chand, Latha Chaturvedula, K. Ramachandra Rao. Deoxyribonucleic acid damage study in primary amenorrhoea by comet assay and karyotyping. *Ind. J. Hum. Genet.* Oct – Dec 2013. 19, Issue 4.

## PATIENT CARE SERVICES

S. No	Clinics		New	Old	Total
1.	General OPD	6/week	Obst -21,541	43,977	65,518
		6/week	Gynae – 19,734	33,677	53,411
2.	Cancer clinic	1/week	769	1,683	2,452
3.	Infertility clinic	1/week	194	469	663
4.	Post Natal clinic	1/week	1,467	855	2,322

## Operations Performed (Gynaecology)

Major abdominal surgery	728
Major vaginal surgery	397
Oncology surgery	162
Diagnostic lap/hysteroscopy	108
Operative laparoscopy	34
D&C/FC/EA	768
Biopsies/polypectomy	1,458
Cystoscopy/Cryo/colposcopy	88
Papsmear	8338
MTP	136

## Obstetrics

<b>Deliveries</b>	<b>13,564</b>
Vaginal deliveries	9,117
Operative vaginal deliveries	1,457
LSCS	2,981
Emergency Laparotomy	32
NST	481
USG	13,537

**Side Laboratory Investigations (O&G)**

<b>Blood</b>	
Hb	13,073
BT, CT	4,235
TC, DC	821
ESR	526
Blood grouping	1,538
<b>Urine</b>	
Routine and microscopy	4,343
Pregnancy test	797
Ketones	84
BS	14
Albumin	41,822
<b>Stool</b>	
Ova/cyst	149
Occult blood	58

**POSTPARTUM PROGRAMME****Achievement of Different Family Planning Methods**

Method	Achievement
Copper T	130
Oral Pills	78
Sterilisation (Tubectomy)	2,295
Vasectomy	1

**AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS****Dr. Habeebullah**

- i. Organizing Secretary of All India Conference of Association of Gynae Oncology of India
- ii. Elected as Vice President of AGOI
- iii. President, Pondicherry branch of Federation of Obstetrics a Gynaecology Societies of India

**ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS****Dr Habeebullah**

- i. Head of Women and Children Hospital wing of JIPMER
- ii. Warden of three doctors hostels, Chairman of Cafeteria committee and chairman of a number of committees of Hospital and Institute
- iii. MCI inspector for M.S. (OG)
- iv. External examiner, PG guide for MS/MD and coguide for Ph.D.

## Obstetrics and Gynaecology

- v. External examiner at Pondicherry Institute of Medical Sciences, Pondicherry, Sri Ramachandra University, Porur, Chennai, shilling, Mahatma Gandhi Medical College and Research Institute, Pondicherry and Govt. Medical College, Thiruvananthapuram.
- vi. Conducted Dip NB exams (Obst and gyn) at JIPMER in March 2014

### Dr. S. Soundararaghavan

- i. Chairman of patient Shelter committee
- ii. Officer in charge Security
- iii. Member of library committee
- iv. Member of PG research monitoring committee

### Dr. Dasari Papa

- i. Attended a meeting on CMCHISTN and package rates on 2/12/13
- ii. Selection committee member for interview for the post of Lecturer on 21.2.2014
- iii. Preparing and Organising PG teaching Schedule
- iv. Examiner for Fellowship examination in High risk Pregnancy and Obstetric Medicine in June 2013, at Chandigarh
- v. MBBS degree examination 13th and 14th June 2013 and 16–19 December 2013
- vi. Dissertation evaluation JIPMER, Bangalore and Mysore University
- vii. Paper setting for DGO Sri Dev Raj Urs medical College; for MBBS Saveetha University
- viii. Faculty and officer in charge ship of Infertility Clinic
- ix. Guideship for- Prevalence of bacterial genital tract colonization in patients undergoing induction of labour and its effect on maternal and neonatal outcome

### Dr. Latha Chaturvedula

- i. Secretary of Obstetrics and Gynaecology Society of Pondicherry.
- ii. Faculty of Department of Medical Education
- iii. Faculty for PG orientation session on Ethics for medical doctors
- iv. Warden of all Women hostels including Resident doctors and girl students of various courses (MBBS, PhD, MSc, BSc MLT, Lab technology, BSc OT etc.) of JIPMER.
- v. Organized 5 CMEs as Secretary OGSP

Guide for

- vi. Pregnancy outcome in Preterm premature rupture of membranes between 24 and 34 weeks of gestation.
- vii. Serum vitamin-D levels in pregnant women and its association with hypertensive disorders of pregnancy
- viii. Hysterolaparoscopy in evaluation of Infertility

### Dr. Gowri D,

- i. Department in charge ship: Incharge of Labour Room, Incharge of interns' postings and Co in charge of Post graduate teaching.
- ii. Resource person for first year PG orientation program for MD/MS students-2013 batch.
- iii. Guide for MS thesis and co-guide for DM (Neonatology) thesis

### Dr. Jayalakshmi

- i. COORDINATING BSc OT technician classes, internal MBBS examiner-2013.
- ii. Health talk—women college pondy 2013
- iii. Member of crowd control committee

**Dr. Manikandan, K**

- i. Member of “JIPMER Equipment Purchase Committee” and Member of “Brain stem death declaration committee
- ii. Assistant co-ordinator of “JIPMER Website development team”
- iii. Core member faculty – Resident Orientation Programme and Interns Orientation Programme

**Dr. Haritha Sagili**

- i. Faculty and Officer In charge
- ii. School health checkup at Cluny school
- iii. Health talk-HPV vaccine Cluny school- Nov 9,23rd
- iv. Membership in official committees- Internal clinical assessment cell (ICAC),Student Advisor/ Counseling Committee, Canteen committee and Interns orientation programme
- v. Coordinator for Emergency Medical Technicians (EMTC) Course, Module 4. O&G, Perinatal mortality and morbidity meetings, PG induction programme and departmental Drug bank

**Dr. Veena**

- i. Project Officer for Postpartum Programme
- ii. Departmental quality manager for JIPMER Quality Council

**Dr. Dilip Kumar Maurya**

- i. Departmental in charge for Equipments and PNDT data
- ii. Faculty for Basic Laparoscopic skills course held periodically at JIPMER

**Dr. Kubera, N.S.**

- i. Member of Board of medical expert for declaration of Brain stem death and Crowd management committee

**Dr. Anish Keepanasseril**

- i. Guide for- Connective tissue disorders in women with early onset preeclampsia—a cross sectional study
- ii. Member of JIPMER security committee
- iii. In charge of departmental library

**Dr. Sasirekha**

- i. Member of “Brain stem death declaration committee”
- ii. Health camp at Kottakuppam
- iii. Health talk on “RTI % HPV vaccines” at Acharya women’s college
- iv. Member of JIPMER Quality Council
- v. Guide for- Serum beta hCG levels between 12 and 20 weeks of gestation in prediction of hypertensive disorders of pregnancy.

**Dr. Chitra**

- i. In-charge of PPTCT programme
- ii. Councilors/member of JIPMER QUALITY COUNCIL
- iii. Examiner for Final MBBS degree examination May 2013, Hassan Medical College, Hassan, Karnataka

- iv. Guide for- Effect of Laparoscopic Ovarian drilling on clinico-hormonal profile in Clomiphene resistant infertile women with polycystic ovarian syndrome: Candidate- Dr Priyanka Sinha to be completed by Aug 2015

### **SIGNIFICANT EVENTS IN THE DEPARTMENT**

The department shifted in June to a new 450 bedded building exclusive for women and child health. The department hosted a national conference in Gynaecological oncology (AGOICON) in November 2013 which was attended by 500 delegates both from India and abroad. Workshop on Obstetric Critical Care targeting the medical colleges in and around Pondicherry was organized in collaboration with the department of Anaesthesia in January 2014.



# Ophthalmology

## FACULTY LIST

- |                        |   |                                                         |
|------------------------|---|---------------------------------------------------------|
| 1. PROFESSOR AND HEAD  | : | Renuka Srinivasan                                       |
| 2. ASSOCIATE PROFESSOR | : | Subashini Kaliaperumal, Ramesh Babu K. and Shashi Ahuja |
| 3. ASSISTANT PROFESSOR | : | Nirupama Kasturi and Swapnil Parchand                   |

## BACKGROUND INFORMATION

The Department of Ophthalmology aims to provide comprehensive preventive and curative care to reduce visual morbidity.

The department has a well planned teaching schedule which includes journal club, seminars, grand rounds and wet lab. Evidence based approach is emphasized.

An average of 55,000 patients attended our outpatient every year and over 20,000 major and minor surgeries are carried out. Special clinics are conducted for workup of retina, cornea, and glaucoma patients.

The department conducts a state of art outreach programs under the teleophthalmology project. Screening for age related disorders especially diabetic retinopathy and school vision screening are the thrust areas of these camps.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

- MBBS

### *Postgraduate Courses*

- MS

## CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT

CME on “Angle Closure Glaucoma” Sponsored by Cipla in Conference Hall, SS Block, JIPMER held on April 26, 2013—Organising Chairperson—Prof. Renuka Srinivasan: Organising Secretary—Dr. Subashini K.

Organised Eye Donation Awareness Rally in association with Lion’s Club of Pondicherry and St John’s Ambulance Association, Pondicherry which was flagged off by the Chief Guest of the event, Dr. Ravikumar T.S. Director, JIPMER September 10, 2013.

Organised Eye Donation Awareness Rally in association with Rotary Club of Cheyyar was conducted in Cheyyar, Tamil Nadu, on September 15, 2013.

“Workshop on Macular Diseases” under the aegis of by Vitreoretina Society of India and with “Novartis in NTTTC Hall, Academic Center, JIPMER held on January 26, 2014—Organising Chairperson—Prof. Renuka Srinivasan: Organising Secretary—Dr. Ramesh Babu K.

## Ophthalmology

Organised Glaucoma awareness program for the public in JIPMER SSB Auditorium on March 12, 2014. A Patient Information Booklet on Glaucoma in Tamil and English written by Dr. Subashini K. was released during the event.

Continuing Optometry Education specifically for Optometrists—“Optocon 2013” under the aegis of Optometrists Association of Tamil Nadu (OATN) Sponsored by Optometrist Association of Tamil Nadu held in SSB Auditorium, JIPMER on April 28th 2013—Organising Chairperson—Dr. Ramesh Babu K.

### CONFERENCES AND CMES ATTENDED BY FACULTY

#### *Dr. Renuka Srinivasan*

##### **International**

- i. Presented paper on “Ocular and systemic comorbidities in patients undergoing cataract surgery” at Asia Pacific Association of Cataract and Refractive Surgeons at Singapore, July 11–14, 2013.
- ii. Presented poster on “Changes in Pachymetry and Keratometry levels after Phacotrabeculectomy” at Asia Pacific Association of Cataract and Refractive Surgeons at Singapore, July 11–14, 2013.
- iii. Presented Poster on ‘Aqueous Prostaglandin E2 levels in a south Indian population and its relation to central macular thickness after cataract surgery at Asia ARVO (Association for research in vision and ophthalmology) October 28–30, 2013 N Delhi.

##### **National**

- i. Chairperson for “Managing irregular cornea with newer technology” and “Evaluation of complications of LASIK” at CME on Cornea, Vasan eye care hospital, Puducherry, September 22, 13.
- ii. Speaker ”Lens extraction in angle closure glaucoma” at CME on angle closure glaucoma Sponsored by Cipla held at SSB Auditorium, JIPMER on April 25, 2013.
- iii. Resource person/Invited speaker for “All India Ophthalmological Society-PG Update program for South Zone” on “What is expected in DNB” at Aravind Eye Hospital, Puducherry from September 2 to 4, 2013.
- iv. Resource person in “Workshop on MCQ review and validation at NBE”, Delhi April 30, 13.
- v. Board member for Optometry program curriculum at Community college, Pondicherry, September 30, 2013.
- vi. Speaker, “The burden of macular blindness” at CME on Macular Disorders held under the aegis of Vitreoretina Society of India and Sponsored by Novartis India and Appasamy Associates at NTTC auditorium on January 26, 2014.

#### *Dr. Subashini Kaliaperumal*

##### **International**

- i. Participated in “International Summit of Emergency Medicine and Trauma from February 14 to 16, 2014” held at JIPMER.
- ii. Coauthor of paper presented in “Confluence—Eye and Beyond” International Conference on Oculoplasty, Aesthetics, Ocular Oncology, Ophthalmic Pathology, and Neuro-ophthalmology, “Non pseudomonal ecthyma gangrenosum of the upper lid treated with lid reconstruction” at Hyderabad from December 13–15, 2013.

##### **National**

- i. Attended Workshop on “Question Paper Setting” on July 7, 2013 organised and held at JIPMER, Puducherry.
- ii. Attended the “Cornea Surgery Update” organized and held at Aravind Eye Hospital, Puducherry on July 18, 2013.

- iii. Participated in the Annual conference of “Tamilnadu Ophthalmic Association” at Chennai, from August 9 to 11, 2013.
- iv. Resource person/invited speaker for “All India Ophthalmological Society-PG Update Program for South Zone” for the session on Glaucoma at Aravind Eye Hospital, Puducherry from September 2–4, 2013.
- v. Coauthor of Paper presented in JIPMER Scientific Society “Homocystinuria with Microspherophakia and abdominal hernia in two siblings” in Conference Hall, SS Block in Sept 2013.
- vi. Coauthor of paper presented in 23rd Annual Conference of Glaucoma Society of India “Posner Schlossmann Syndrome: Clinical and Demographic characteristics” at Indore from September 20–22, 2013.
- vii. Participated in CME on Cornea conducted by Vasan Eye Care in Puducherry on September 22, 2013.
- viii. Participated in CME and Workshop on Patient Safety in JIPMER Auditorium on November 23 and 24, 2013.

### **Dr. Ramesh Babu K.**

#### **International**

Member of steering committee and the organising committee of the “International Summit of Emergency Medicine and Trauma 2014” conducted in JIPMER from February 11–16.

#### **National**

- i. Attended the “Reticon” the retinal congress organized by Agarwal Group of Eye Hospitals, held at Chennai on May 5, 2013.
- ii. Attended the “Indian Intraocular Implant and Refractive Surgery Convention 2013” organized and held at Chennai on July 6–7, 2013.
- iii. Attended the “Cornea Surgery Update” organized and held at Aravind Eye Hospital, Puducherry on July 18, 2013.
- iv. Participated as delegate in “Refractive Surgery 360” a sub-specialty conference organised by L V Prasad Eye Institute, at Hyderabad International Convention Center, Hyderabad from August 17 to 18, 2013.
- v. Resource person/invited speaker for “All India Ophthalmological Society-PG Update program for South Zone” for the session on Retina at Aravind Eye Hospital, Puducherry from September 2 to 4, 2013.
- vi. Participated in CME on Cornea conducted by Vasan Eye Care in Puducherry on September 22, 2013.
- vii. Participated as resource faculty in CME and Workshop on Patient Safety in JIPMER Auditorium on November 23 and 24, 2013.
- viii. Participated in Vaskon’14 conference held in Chennai on March 22 and 23, 2014.
- ix. Participated in the 50th Indian Contact Lens Education Program (ICLEP) organised by L V Prasad Eye Institute, Hyderabad from March 7 to 9, 2014.
- x. Speaker, “Clinical Diagnosis of Diabetic Macular Edema” at CME on Macular Disorders held under the aegis of Vitreoretina Society of India and Sponsored by Novartis India and Appasamy Associates at NTTC auditorium on January 26, 14.

### **Shashi Ahuja**

#### **International**

- i. Poster presentation on Aqueous VEGF and IL-6 levels at Asia—ARVO (Association for research in vision and ophthalmology) conference October 28–31, 2013, Delhi.

## Ophthalmology

## National

- i. Speaker on “Obstretics and Ophthalmology” for CME on Ocular Manifestations of Systemic Diseases at Govt. Kilpauk Medical College and Hospital, Chennai on March 22, 2014.
- ii. Uveitis Society of India Annual Conference, Mussoorie, October 26–28, 2013.
- iii. Co-author to paper presentation—“Panophthalmitis masquerading as melanoma-an eye opener”.
- iv. Co-author to paper presentation-“Granulomatous uveitis due to brimonidine” Confluence 2013 Hyderabad, December 12–16, 2013.
- v. Co-author to paper presentation—“Bilateral acute anterior uveitis and optic neuritis following snake bite.
- vi. Co-author to paper presentation “Double malignancy presenting as unilateral proptosis”.

## Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From To.....)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2013–2014 or Ongoing)
1.	Renuka Srinivasan	A comparative study of clinical efficacy of topical ketorolac vs bromfenac in reducing aqueous prostaglandin E2 levels and macular edema after cataract surgery	2011–2013	Intramural Grant of ₹2 Lacs	Department of Pharmacology	Completed
2.	Subashini K.	Prevalence of Glaucoma in non-diabetic patients with established Coronary artery disease	2012–2014	Non-funded	Department of Cardiology	Ongoing
3.	Subashini K.	Ocular Morbidity in patients with Rhino-orbital Mucormycosis	2014–2015	Non funded	Department of ENT	Ongoing
4.	Shashi Ahuja	Evaluation of Proptosis by CT-guided Fine Needle Aspiration Cytology	2013–2016	Non funded	Department of ENT, Pathology and Radiodiagnosis	Ongoing
5.	Ramesh Babu K.	Ocular Changes in Pregnancy	2014–2016	Non funded	Department of Obstetrics and Gynaecology	Ongoing
6.	Ramesh Babu K.	Role of Vitamin D3 in Severe, Very Severe Non Proliferative Diabetic Retinopathy (NPDR) and Early Proliferative Diabetic Retinopathy (PDR)	2014–2016	Applied for Funding	Department of Pharmacology	Ongoing

## Publications

### Journals

1. Kavitha J, Parida S, Kundra P, and Srinivasan R. Oral gabapentin premedication for elderly patients undergoing intraocular surgery. *Br. J. Ophthalmol.* 2013; 97: 900–904.
2. Kaliaperumal S, Troutbeck R, Iemsomboon W, and Farinelli A. Isolated traumatic aniridia after trabeculectomy in a pseudophakic eye. *Ind. J. Ophthalmol.* 2014; 62: 371–2.
3. Kaliaperumal S, and Pratyusha G. Star cell tumor. *J. Pediatr. Ophthalmol. Strabismus.* 2014; 51: 10–1, (IF-0.795).
4. Kaliaperumal S, Govindaraj I, and Rao VA. Abnormalities of tear function in patients with pseudoexfoliation. *Int. J. Clin. Exp. Physiol.* 2014; 1: 34–8, (IF-nil).
5. Kaliaperumal S, Kumar KP, Bhuvaneshwari. Varied phenotypic presentations of Homocystinuria in two siblings. *Ind. J. Ophthalmol.* 2014; 62: 93–4, (IF-0.797).
6. Kaliaperumal S, and Narayan S. Neuroretinitis: Update on a visual emergency and role of technology in its diagnosis. *J. Biomed. Sci. Eng.* 2013; 6: 15–19, (IF-0.3).
7. Kaliaperumal S, Rao VA, Harish SB, and Ashok L. Pseudoexfoliation on pseudophakos. *Ind. J. Ophthalmol.* 2013; 61: 359–61, (IF-0.797).
8. Kaliaperumal S. Our experience of fibrin sealant-assisted implantation of Ahmed glaucoma valve. *Ind. J. Ophthalmol.* 2013; 61: 311–2, (IF-0.797).
9. Rajesh Nachiappa Ganesh , Shashi Ahuja , Ramesh Ananthkrishnan, and Vasudev Anand Rao Panophthalmitis masquerading as retinoblastoma—an eye opener. *Comp. Clin. Pathol.* 2013; 22: 523–527.
10. Shashi Ahuja, Praveen Kumar K, Rajesh NG, Praveen Seth, and Debadutt Basu. Unilateral proptosis due to orbital malignancy and synchronous carcinoma elsewhere. *Ophthalmol. Res.* 2014; 2: 114–120.

## PATIENT CARE SERVICES

### Clinical

- Number of surgeries

### Patient Care Services

### Clinical

- Number of surgeries

	Inpatient	Outpatient
Elective	1,703	166
Emergency	82	6

S. No.	Name of Treatment/Operation	Number of Cases
1.	Cataract surgery and IOL implantation	Total: 1,836
2.	Scleral fixation	28
4.	Trabeculectomy	29
5.	Combined surgery	34
6.	Squint Correction	9
7.	Evisceration	2
8.	Enucleation	1

9.	Anterior retinal cryotherapy	1
10.	Corneal tear repair	17
11.	Scleral tear repair	9
12.	Penetrating keratoplasty	36
13.	Triple procedure	7
14.	Anterior vitrectomy	33
15.	Pars planavitrectomy	23
16.	D.C.R.	5
17.	Lamellar Keratoplasty	1
18.	D.C.T.	18
19.	Probing	4
20.	Cyclophoto coagulation	5
21.	Entropion repair	3
22.	EUGA	8
23.	Manual I/A	17
24.	Orbital implant	2
25.	AC reformation	11
26.	Resuturing	4
27.	Iris repositioning	1
28.	Lens matter aspiration	42
29.	IOL repositioning	13
30.	IOL explantation	5
31.	Amniotic membrane transplantation	2
32.	Intra vitreal antibiotics	17
33.	Intra cameral AB	6
34.	Dermoid excision	7
35.	Excision biopsy	9
37.	Pterygium excision	6
38.	Pterygium excision conj. autograft	9
39.	ACIOL implantation	14
41.	ICCE	1
<b>Miscellaneous</b>		
42.	I and D	92
43.	Chalazion (I and C)	93
44.	Tarsorrhaphy	49
45.	Suture removal	112
46.	Caterpillar hair removal	49
47.	Fb removal (extraocular)	173
48.	Syringing	3,355
49.	Schrimers test	4,529
<b>Specialty Clinics</b>		
1.	Fundus clinic	951
2.	Glaucoma clinic	909
3.	Post-operative clinic	1,830
4.	Cornea clinic	526

(Continued)

S. No.	Name of Treatment/Operation	Number of Cases
<b>Special Investigation and Procedure</b>		
1.	Post mydriatic test	2,549
2.	Refraction	4,107
3.	Keratometry	1,935
4.	Contact lens	86
5.	Yag laser	109
6.	A scan	1,780
7.	Automated perimetry	591
8.	FAG	91
9.	PanRetinal photocoagulation	157
10.	Laser iridotomy	23
11.	Pachymetry	444
12.	OCT	354

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

### Administrative, Patient Care, Educational, Research and Other Assignments

#### *Dr. Renuka Srinivasan*

- i. Chairperson of “Sexual harassment against women at workplace” cell.
- ii. Officer-in-charge, Complaint cell.
- iii. Examiner DNB at AFMC Pune March 4–7, 2013.
- iv. Examiner DNB JIPMER April 9–11, 2013.
- v. Conducted DNB exams JIPMER April 9–11, 2013.
- vi. Examiner for MS and DO at Aravind eye hospital April 22 and 23, 2013.
- vii. Inspector for eye bank facilities at Venkateshwara medical college hospital and research centre April 29, 2013.
- viii. MCI inspector fo MS 16-4-13 At PGIMER and Dr RML hospital Delhi.
- ix. DNB accreditation at Venu eye hospital N Delhi August 8, 2013.
- x. DNB Accreditation at Eye Microsurgery and Laser Centre, Tiruvalla.
- xi. MCI assessor for PG course, Jawaharlal Nehru Medical College Wardha December 9–11, 2013.
- xii. MCI assessor for PG course, Rajiv Gandhi Inst of Medical Sciences Srikakulam December 30, 2013.
- xiii. MCI assessor for PG course Dr. Ulhas Patil Medical College Jalgaon January 28, 2014.
- xiv. Guide—Determination of anterior segment morphological changes in eyes following uneventful phacoemulsification and foldable intraocular lens implantation (MS Ophthal).

#### *Dr. Subashini K.*

- i. Participated and contributed to framing of Curriculum for BSc Operation Theatre Technology Course during Workshop on January 25, 2014 in JIPMER, Puducherry.
- ii. Executive member of Pondicherry Ophthalmic Association.
- iii. Member of JIPMER Quality Council.
- iv. Internal examiner- Allied Medical Science (OT Technology), JIPMER-May 2013.  
Internal Examiner- Final MBBS part I JIPMER –Dec 2013.
- v. Guide—ophthalmological profile of adult thyroid disease (MS Ophthal).

**Dr Ramesh Babu K.**

- i. Member of JIPMER Quality Council.
- ii. Internal Examiner UG—Final MBBS part1 JIPMER—June 2013.
- iii. Internal Examiner PG—MS Ophthalmology—March 2014.
- iv. External examiner for MBBB examination at JSS Medical College, Mysore January 2014.
- v. Guide—Changes in Corneal Astigmatism after Standard Temporal Incision Phacoemulsification versus Corneal Topography Guided Incision Phacoemulsification—A Randomized Control Trial (MS Ophthal).
- vi. Guide—Analysis of Corneal Aberrations and Visual Performance after Phacoemulsification (MS Ophthal).

**Dr. Shashi Ahuja**

- i. Member, Post-graduate Research Monitoring Committee.
- ii. Member, VMC, KV No.1, JIPMER.
- iii. Internal examiner for MBBS examination at JIPMER, June 2013.
- iv. External examiner for MBBB examination at Melamaruvathur Adiparasakthi Medical College, Melamaruvathur (February 19–24, 2014).
- v. Guide—Corneal endothelial changes in patients of type two diabetes mellitus using specular microscopy.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. Organised Eye Donation Awareness Rally in association with Lion's Club of Pondicherry and St John's Ambulance Association, Pondicherry which was flagged off by the Chief Guest of the event, Dr. Ravikumar T.S. Director, JIPMER September 10, 2013. Prof. Renuka Srinivasan, Dr. Ramesh Babu K., Dr. Subashini K., participated in the event.
- ii. Organised Eye Donation Awareness Rally in association with Rotary Club of Cheyyar was conducted in Cheyyar, Tamil Nadu, on September 15, 2013. Dr. K. Ramesh Babu participated in the event.



# Orthopaedic Surgery

## FACULTY LIST

- |                                     |   |                                                     |
|-------------------------------------|---|-----------------------------------------------------|
| 1. PROFESSOR AND HEAD OF DEPARTMENT | : | Jagdish Menon                                       |
| 2. SENIOR PROFESSOR                 | : | Patro D.K.                                          |
| 3. ADDITIONAL PROFESSOR             | : | Murali Poduval                                      |
| 4. ASSOCIATE PROFESSORS             | : | i. Deep Sharma<br>ii. Nataraj A.R.                  |
| 5. ASSISTANT PROFESSORS             | : | i. Gopisankar @ Balaji G.<br>ii. Sandeep Kumar Nema |

## BACKGROUND INFORMATION

The department of Orthopaedic Surgery is functioning since the inception of JIPMER. It has 64 sanctioned in-patient beds. In addition it caters to in patients admitted to emergency wards and special wards. The department runs out-patient services 6 days/week. Special clinics, namely clubfoot clinic, cerebral palsy/poliomyelitis clinic are functioning once a week and bone tumor clinic functions twice a month. Emergency services are provided 7 days/week. The department is allotted 6 operation tables per week for major surgical work. Available surgical facilities in the department are: Trauma surgery for routine and complex trauma including spinal injuries; correction of congenital and acquired deformities using complex corrective procedures like Ilizarov technique; hip and knee total joint replacement; knee arthroscopy and Anterior Cruciate Ligament reconstruction; limb salvage reconstruction after bone tumor resections (custom mega prostheses); resection and extracorporeal irradiation and reimplantation for malignant bone tumors; spinal surgeries like Antero-lateral decompression, anterior decompression, discectomy, posterior instrumentation and fusion for spondylolisthesis; routine trauma procedures. The department functions as two clinical units. The department runs a post graduate programme with six MS candidates per year. It is also involved in Undergraduate and paramedical teaching and training.

## EDUCATION COURSES

- i. Undergraduate courses: MBBS
- ii. Post Graduate Courses: MS Orthopedics
- iii. Other Courses: B.Sc. (Nursing), B.Sc. OT technician course, Medical Record Trainee and Emergency Trauma Technician Course
- iv. Training of Masters in Physiotherapy nominees from Govt. of Pondicherry

## CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT

- i. Cadaveric fracture fixation workshop (Upper Limb) on October 11-12, 2013, at NTTTC Hall JIPMER, Puducherry, In Collaboration with Department of Anatomy.

## Orthopaedic Surgery

- ii. First Advanced Trauma Life Support (ATLS) Course on February 9–11, 2014, during International Summit on Emergency Medicine and Trauma (ISEMT, 2014).
- iii. Orthopaedics Post Graduate Instructional Course on January 10–12, 2014 at NTTC Hall, JIPMER, Puducherry.

## CONFERENCES AND CMES ATTENDED BY

### Faculty

#### Prof D.K. Patro

- i. Faculty in Cadaveric hands on exposure and fracture fixation in JIPMER Puducherry held on October 10 and 11, 2013.
- ii. Faculty in JIPMER Post graduate instructional course at JIPMER, Puducherry, from January 10 and 12, 2014.
- iii. Faculty in CME on Pediatric Bone Tumors, organized by RCC, JIPMER, on March 8, 2014.

#### Prof. Jagdish Menon

- i. Attended the 7th National Congress of the Indian Society of Hip Knee Surgeons at Kolkata on April 26–28, 2013.
- ii. Faculty lecture on “Principles of elastic nailing” at Orthopaedic Association of South Indian States conference at Pondicherry on August 25, 2013.
- iii. Faculty lecture on “Musculoskeletal fitness” at the CME on World Physiotherapy Day September 8, 2013, JIPMER Puducherry.
- iv. Faculty lecture at the Mother Theresa Postgraduate and Research Institute of Health Sciences, Pondicherry on October 18, 2013 on World Osteoporosis Day.
- v. Faculty lecture on “External fixation in the role of Pilon fractures” at the Pondicherry State Orthopaedic Conference, Kariakal on January 5, 2014.
- vi. Faculty at the “Cadaveric and Fracture fixation workshop-UPPER LIMB organised by departments of Orthopedics and Anatomy at JIPMER on October 11 and 12, 2013.
- vii. Faculty at the First JIPMER postgraduate Instructional course at the department of Orthopaedics at JIPMER on January 10–12, 2014.
- viii. Attended the International Summit of Emergency Medicine and Trauma at JIPMER February 14–16, 2014.
- ix. Faculty lectures on (1) components of total hip replacement, (2) component position in total hip replacement and (3) rehabilitation post total hip replacement at Durgapur Basic Hip Arthroplasty Course February 28–March 1, 2014.

#### Dr. Murali Poduval

- i. Presented a case for discussion at 7th National Congress of the Indian Society of Hip Knee Surgeons kolkata April 26–28, 2013.
- ii. JQC talk in the JSS monthly meeting—site marking and prevention of WSPE, on July 19, 2013.
- iii. Regional Workshop for sensitisation and awareness on National Medical College Network Project: Ministry of Health and Family Welfare, Government of India, on August 16, 2013.
- iv. Organising Chairman and Delivered talk on “Rehabilitation Goals in Arthroplasty and effect on Fitness” at the CME on Fitness in Rehabilitation organised by the Department of PMR, JIPMER on September 8, 2013.
- v. Biofilms In Orthopaedics—Invited Lecture at OASISCON (Annual Conference of the Orthopaedic Association of South Indian States)—Pondicherry, on August 23, 2013.
- vi. Monothematic workshop on brain death JIPMER on September 21, 2013.
- vii. First Orthooncocon Tata Memorial Hospital Mumbai, September 28 and 29, 2013.

- viii. Organising Chairman and Faculty in the “Cadaveric and Fracture fixation workshop-UPPER LIMB organised by Orthopedic and anatomy department JIPMER on October 11 and 12, 2013.
- ix. Fourth Short Course on Basic Epidemiology—JIPMER, Pondicherry, November 4–8, 2013.
  - x. Biomechanics of total knee replacement and soft tissue balancing in total knee replacement delivered at the additional CME of the Kerala Orthopedic Association on “Basic Concepts in Total Knee Replacement” held at Muthoot Medical Centre, Kozhencherry, Kerala State on November 24, 2013.
- xi. Patient safety week of the JIPMER QUALITY COUNCIL from November 18 to 24, 2013, Patient safety in invasive procedures—as part of Nurses Orientation Programme, Resource person in workshop on patient safety, Resource person for small group training sessions.
- xii. Organising Chairman and Faculty in Post Graduate Course in Orthopaedics at the Department of Orthopaedics January 10–12, 2014.
- xiii. Organising member of the inaugural ATLS workshop at JIPMER, February 11–13, 2013.
- xiv. Organising member of the International conference of emergency Medicine and trauma at JIPMER, Pondicherry on February 14–16, 2014.

### Dr. Deep Sharma

- i. Organizing Secretary and Faculty in Cadaveric fracture fixation workshop on October 11–12, 2013.
- ii. First Advanced Trauma Life Support (ATLS) Course on February 9–11, 2014.
- iii. Organizing Secretary and Faculty in Orthopaedics Post Graduate Instructional Course on January 10–12, 2014.
- iv. Faculty and Organizing member International Summit on Emergency Medicine and Trauma (ISEMT, 2014), February 12–14, 2014.
- v. AO Spine advances Operative course, Coimbatore, on September 27–29, 2013.
- vi. AO Spine advances Symposium on Spinal deformities, Chennai on November 23–24, 2013.
- vii. National Conference of Indian Orthopaedic Association, Agra on December 3–8, 2013.

### Dr. Nataraj A.R.

- i. Presented Poster “Management of bilateral subtrochanteric fracture in a seven year old patient with osteopetrosis: A case report” in 34th SICOT 2013 at Hyderabad from October 17 to 19, 2013.
- ii. Presented Poster “Abdominal aorta injury following traumatic spondylolisthesis in a polytrauma patient-A case report” in ISEMT 2014, February 12–14, 2014, at JIPMER, Puducherry.
- iii. Faculty in Cadaveric hands on exposure and fracture fixation in JIPMER Puducherry held on October 10 and 11, 2013.
- iv. Faculty in JIPMER Post graduate instructional course at JIPMER, Puducherry, from January 10 to 12, 2014.
  - v. Workshop on Curriculum development on January 25, 2014 in JIPMER, Pondicherry.
- vi. AO Trauma Pelvic Course with Cadaveric Lab, April 11–14, 2013, Bangalore.
- vii. Advanced Operative Shoulder Arthroscopic Cadaver Workshop in Chennai on June 23, 2013.
- viii. ArthoChennai—2013, International Advanced Arthroscopy Course in Chennai on June 29 and 30, 2013.
- ix. SICOT 2013 34th International Congress at Hyderabad from October 17 to 19, 2013.
  - x. IOACON 2013 held at Agra, from December 6 to 8, 2013.
  - xi. ISEMT 2014, held at JIPMER, from February 12 to 16, 2014.

### Dr. Gopisankar @ Balaji G.

- i. AO Advanced Trauma course 2013 in Kochi, April 25–27, 2013.
- ii. Current concepts in Hip, Chennai, August 4, 2013.
- iii. OASISCON 2013 in Pondicherry, August 23–25, 2013.

## Orthopaedic Surgery

- iv. Deformity correction course in Palakkad, September 27–29, 2013.
- v. CME on patient safety in JIPMER, November 23 and 24, 2013.
- vi. CME on translational research in JIPMER, January 2014.
- vii. TNOACON 2014 in Chennai, February 7–9, 2014.

**Dr. Sandeep Kumar Neema**

- i. CME on fitness in rehabilitation, organised by the Department of PMR, JIPMER on September 8, 2013.
- ii. Faculty in postgraduate instructional course in orthopaedics held on January 10–12, 2014 at JIPMER.
- iii. Faculty in hands on cadaveric fracture fixation workshop held on October 11–12, 2013 at JIPMER.
- iv. ISEMT held at JIPMER from February 13 to 16, 2014.

**Research Project**

S. No.	Name of Principle Investigator	Title of Project	Duration of Project (From ... to)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012–2013 or Ongoing)
1.	Prof. D.K. Patro	Outcome of open discectomy in “massive” intervertebral lumbar disc prolapse	5 years	NA	Nil	Ongoing
2.	Prof. D.K. Patro	Extracorporeal irradiation and reimplantation as limb salvage option after resection of osteo-articular ends of bones for malignant bone tumors	5 years	NA	Nil	Ongoing
3.	Prof. D.K. Patro	One stage debridement, internal fixation and cancellous bone grafting in infected nonunions of long bones	5 years	NA	Nil	Ongoing
4.	Prof. D.K. Patro	Excision, muscle interposition and radial deformity correction along with FCU transfer to restore supination in congenital superior R-U synostosis	5 years	NA	Nil	Ongoing
5.	Prof. D.K. Patro	Survival analysis of long segments of fibula used in gap reconstruction in weight bearing bones	5 years	NA	Nil	Ongoing
6.	Prof. D.K. Patro	Limb salvage in malignant bone tumors	5 years	NA	Nil	Ongoing

*(Continued)*

S. No.	Name of Principle Investigator	Title of Project	Duration of Project (From ... to)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012–2013 or Ongoing)
7.	Dr. Jagdish Menon	Investigations on human-bacteria interactions in infections associated with orthopedic implants with special reference to chronic infections caused by persistent biofilm bacteria	3 years	Department of Biotechnology, Govt. of India	Pondicherry University	Ongoing
8.	Dr. Deep Sharma	The role of ADA, IL-6, TNF- $\alpha$ , IFN- $\gamma$ as diagnostic markers of skeletal tuberculosis	2 years	Intramural ₹1,00,000/-	Biochemistry, JIPMER	Completed
9.	Dr. Nataraj A.R.	Short term effects of shortwave Diathermy versus therapeutic ultra sound in pain reduction and functional improvement of middle aged patients with Painful arc syndrome in Indian population	1 year	NA	PMR	Physiotherapy

## PUBLICATIONS

1. Amit P, Patro DK, Basu D, Elangovan S, and Parathasarathy V. Role of dynamic MRI and clinical assessment in predicting histologic response to neoadjuvant chemotherapy in bone sarcomas. *Am. J. Clin. Oncol.* February 2013; 5.
2. Karthikeyan M, Sreenivas T, Menon J, and Patro DK. Congenital insensitivity to pain and anhydrosis—report of two cases. *J. Orthop. Surg. (Hong Kong)*. April 2013; 21(1): 125–8.
3. Maharajan K, Patro DK, Menon J, Hariharan AP, Parija SC, Poduval M, and Thimmaiah S. Serum procalcitonin is a sensitive and specific marker in the diagnosis of septic arthritis and acute osteomyelitis. *J. Orthop. Surg. Res.* July 4, 2013; 8: 19, doi: 10.1186/1749-799X-8-19
4. Sharma D, Patro DK, Poduval M, Karthikeyan M, and Dhiman P. Tumor-induced osteomalacia—a diagnostic dilemma for an orthopedic surgeon. *Eur. Orthop. Traumatol.* DOI 10.1007/s12570-013-0234-y; 2013.
5. Sharma D, Karthikeyan M, Natraj AR, Poduval M, and Patro DK. Simultaneous asymmetrical bilateral fracture dislocation of shoulder—a case report and review of literature. *J. Orthopaedic Case Rep.* 2013, October–December; 3(4): 19–22.
6. Sreenivas T, Jagdish Menon, and Nataraj AR, Heterotopic ossification of the elbow after closed reduction and retrograde intramedullary nailing for radial neck fracture treated by anconeus interposition. *Musculoskelet Surg.* December 2013; 97(3): 267–71.
7. Sreenivas T, Nataraj AR, and Jagdish Menon, Acute hematogenous septic arthritis of the knee in adults. *Eur. J. Orthop. Surg. Traumatol.* October 2013; 23(7): 803–7.
8. Primary epithelioid angiosarcoma of the calcaneum: a diagnostic dilemma. Gopisankar Balaji G, Arockiaraj JS, Roy AC, Deepak B. *J. Foot Ankle Surg.* 2014.

## Orthopaedic Surgery

9. Isolated Tubercular Osteomyelitis of Scapula—A Report of Two Cases and Review of Literature. Gopisankar Balaji, Justin Arockiaraj, Alfred Cyril Roy, Anand Ashok. *J. Orthopaedic Case Rep.* December 2013.
10. Collar bone swellings—a varied presentation of multiple myeloma. Justin Arockiaraj SV, Gopisankar Balaji G, Vidyasagar B. *Jpn. J. Clin. Oncol.* January 2014.

## PATIENT CARE SERVICES

### ***In-Patient Services***

It has 64 sanctioned in-patient beds. In addition it caters to in patients admitted to emergency wards and special wards. The department is allotted six operation tables per week for major surgical work. Available surgical facilities in the department are: trauma surgery for routine and complex trauma including spinal injuries (state of the art internal fixation techniques are used); correction of congenital and acquired deformities using complex corrective procedures like Ilizarov technique; hip and knee total joint replacement; knee arthroscopy and Anterior Cruciate Ligament (ACL) reconstruction; limb salvage reconstruction after bone tumor resections (custom mega prostheses); resection and extracorporeal irradiation and reimplantation for malignant bone tumours (One of the only centre in India carrying out this procedure); spinal surgeries like antero-lateral decompression, discectomy, posterior instrumentation and fusion for spondylolisthesis; routine poliomyelitis and cerebral palsy corrective procedures.

### ***Out-Patient Services***

The department runs out-patient services 6 day a week.

### ***OPD Days (Room Number 64)***

Unit I—Monday, Wednesday, Friday

Unit II—Tuesday, Thursday, Saturday **Special Clinics**

Clubfoot Clinic—Wednesday 2:00 PM to 3:00 PM room number 64

Cerebral Palsy/Poliomyelitis Clinic Tuesday PMRC Block second floor

Tumor Clinic alternate week (Friday 2:00 PM to 4:00 PM) Seminar Room PMRC Block

## AWARDS, HONORS AND OTHER PERSONAL ACHIEVEMENTS

Completed the **Johnson and Johnson Fellowship for 2013** awarded by **Indian Orthopedic Association (IOA)**, travelling fellowship within India from December 5 to 26, 2013.

## ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

### ***Prof. D.K. Patro***

- i. Expert Member of NDAC of DCGI, GOVT OF INDIA since 2011.
- ii. Member of Medical Equipment and Hospital Planning Division of BUREAU OF INDIAN STANDARDS since 2010.
- iii. Member of departmental purchase committee, Department of Orthopedic, JIPMER.
- iv. External Examiner and Chairman of MS (Orthopedics) at NIMS, Hyderabad, April 15–16, 2014 and April 2013.
  - v. External Examiner for MS (Orthopedics) at MGMC and RI, Pondicherry, April, 2014.
  - vi. Internal Examiner MS (Orthopedics) at JIPMER, March, 2014.

- vii. Post Graduate thesis/dissertation assessor for NTR Health University, Rajiv Gandhi Health University, MGR Health University.

### **Prof. Jagdish Menon**

- i. Medical Council of India assessor for MS (Orthopaedics) for medical colleges in Bhubaneswar and Trivandrum.
- ii. Pondicherry University assessor for MS (Orthopaedics).
- iii. Examiner for MS (Orthopaedics) at Rajiv Gandhi University Karnataka, Kerala University of Health Sciences and Amrita Institute of Medical Sciences, Kochi.
- iv. Chairman, Departmental purchase committee, Department of Orthopaedics, JIPMER.
- v. Member, Institute Purchase Committee.
- vi. Member, JIPMER modernization council.
- vii. Member, Surgical sutures committee, JIPMER.
- viii. Completed tenure of Vice Chairman, JIPMER Scientific Society.
- ix. Vice Chairman, JIPMER Co-operative Society.

### **Dr. Murali Poduval**

- i. Appointed as subeditor on Indian Journal of Orthopedics (IJO) since April 1, 2013.
- ii. JIPMER entrance examination center supervisor at Guwahati on May 28–31, 2013.
- iii. MBBS examiner at JIPMER Pondicherry for subject of orthopedics, June 14–16, 2013.
- iv. External examiner for KUHS, GMC Thrissur, MS orthopedics, June 26, 2013.
- v. Examiner for degree of MBBS in subject of Orthopaedics at JIPMER, December 16–19, 2013.
- vi. Appointed as “Faculty Academic Affairs” from January 2014.
- vii. Completed term as Secretary of the JIPMER Scientific Society (JSS) for one year in February 2014.
- viii. Member of Departmental Purchase Committee.

### **Dr. Deep Sharma**

- i. Co-opted member of Departmental Purchase committee.
- ii. Executive member of JIPMER Scientific Society (JSS).
- iii. Institute Representative for JIPMER PG Entrance Examination, 2014 in Lucknow.
- iv. Membership of Indian Orthopaedics Association, Association of Spine Surgeons of India, AO Spine (Switzerland), and ATLS, India, NTTTC (JIPMER).

### **Dr. Nataraj A.R.**

- i. External Examiner for MBBS at Sri Devraj Urs Medical College, Tamaka, Kolar, Karnataka, from July 16 to 18, 2013.
- ii. External Examiner for MBBS at Sri Devraj Urs Medical College, Tamaka, Kolar, Karnataka, from February 2 to 4, 2014.
- iii. Co-opted member of Departmental Purchase committee.
- iv. Member of Radiation safety committee and Crowd control committee, JIPMER.
- v. Became a member of SICOT—International of Orthopedic Surgery and Traumatology and ISKSSA—International Society for Knowledge for Surgeons on Arthroscopy and Arthroplasty.

## **SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. Navigation system for ip Knee and spine and performed the Navigation assisted Total Knee Arthroplasty.
- ii. Installed Arthroscopy simulation model for surgical skill training.
- iii. Installed a Deep freezer for Bone bank.
- iv. The department organizes the Advanced Trauma Life Support (ATLS) course.

# Paediatric Surgery

## FACULTY LIST

- |                                              |   |                                             |
|----------------------------------------------|---|---------------------------------------------|
| 1. IN CHARGE OF PAEDIATRIC SURGERY           | : | Jagdish S.                                  |
| 2. OFFICER IN CHARGE/<br>ASSOCIATE PROFESSOR | : | Kumaravel S.                                |
| 3. ASSOCIATE PROFESSOR                       | : | Bibekanand Jindal                           |
| 4. ASSISTANT PROFESSORS                      | : | i. Krishna Kumar<br>ii. Bikash Kumar Naredi |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Paediatric surgery was started in the year 1976 as a unit of General Surgery with bed strength of 10 under the care of part time consultant Prof. Chatterjee. In 1978, Prof. Chatterjee became a full time consultant looking after Paediatric surgery. The department continued to grow and by 1986 two full time consultants were designated to look after the needs of the department. Even though in 1990 after the retirement of Prof. Chatterjee the department went back to having only a part time consultant to look after its needs until 2009, the department continued to conduct undergraduate classes, look after the surgical needs of paediatric patients especially GIT, and training of postgraduates and senior residents. It is to the credit of the department that at least a dozen post MS senior residents have gone on to complete their MCh in paediatric surgery.

Currently the department of Pediatric Surgery is situated in the Superspeciality Block and is a fully functional independent department with two Associate professors and two Assistant Professors. This department looks after all the surgical needs of children, having daily OPD services and operating on 12 days a month. A six bedded independent Pediatric Surgical ICU equipped with all modern open care systems for newborns, multi-parameter monitors and three ventilators, a four bedded pediatric burns ward and 16 general ward beds account for the in-patient Pediatric Surgical services.

The Department now takes care of all aspects of Pediatric Surgery including Pediatric thoracic, Pediatric gastrointestinal, Pediatric genitourinary, Pediatric solid malignancies (Cancer) and Pediatric endoscopic (laparoscopic, thoracoscopic, etc.) Surgeries with special emphasis on neonatal surgery, pediatric thoracic, and pediatric cancer for which patients come from places as far as 400 Km. Another area of special interest is Biliary atresia, a surgically correctable cause of jaundice in neonates and infants which is not offered in any of the major institutions for several hundred kilometers.

## EDUCATION COURSES

### *Undergraduate Course*

MBBS



### Post Graduate Training

MS general surgery peripheral postings

### Higher Speciality Courses

MCh- Pediatric Surgery

## CONFERENCES AND CMES ORGANISED BY THE DEPARTMENT

- i. **Dr. Bibekananad Jindal** along with the Medical Oncology department Organized Regional Pediatric oncology conference at SS Block conference hall on March 8 and 9, 2014
- ii. **Dr. Krishnakumar**—Organized—CME on Paediatric surgery for Practitioners on August 4, 2013, Puducherry
- iii. **Dr. Krishnakumar**—part of organizing Committee—ISEMT 2014, from February 11 to 16, 2014, JIPMER
- iv. **Dr. Bikash Kumar Naredi** actively involved as joint secretary in the organizing team in organization of Regional Pediatric oncology conference (REPOC 2014) at SS Block conference hall in collaboration with Regional Cancer Centre on March 8 and 9, 2014.

## CONFERENCE AND CMES ATTENDED BY FACULTY

### Dr. Kumaravel. S

- i. Attended and actively Participated in the KAPSCON 2013-12TH Annual State conference of Tamilnadu and Pondicherry chapter of Paediatric Surgeons and Annual TPPS conference at Kanyakumari from June 28, 2013 to July 02, 2013
- ii. Attended and actively Participated in the Workshop and CME on Paediatric Subcutaneous Endoscopic Surgery and Robotics at Chennai on July 06, 2013
- iii. Attended and actively Participated in the International workshop-cum-symposium on Pediatric Urology AIIMS, at New Delhi from August 29 to 31, 2013
- iv. Attended and actively Participated in the Hands on workshop on Staplers, Ethicon Institute, Chennai, October 6, 2013
- v. Attended and actively Participated in the 16th Karnataka State Neonatal Conference at Bangalore from November 15 to 17, 2013.
- vi. Attended and actively Participated in the 3rd annual conference of the NSSI at AIIMS, at Rishikesh from February 28, 2014 to March 02, 2014
- vii. Attended and actively Participated in the 7th Paediatric Surgery Update 2014 at New Delhi from March 20 to 23, 2014
- viii. Invited as faculty for the annual “Pediatric Surgery Update for MCh Post graduates and Junior Consultants” conducted by Maulana Azad Medical College, New Delhi 2014, and presented on Abdominal Wall Defects and took part as faculty in Case Discussion/Meet the professor sessions.
- ix. Invited as faculty for the “4th Pediatric Surgery Clinics and Operative Workshop -2013” at Institute of Child Health and Hospital for Children Chennai.
- x. Invited as faculty for the “Simulation Course in Basic Laparoscopy” at JIPMER using advanced haptic feedback simulators.

### Dr. Bibekananad Jindal

- i. Attended and actively participated in the KAPSCON 2013-12TH Annual State conference of Tamilnadu and Puducherry chapter of Paediatric Surgeons at Kanyakumari from June 28 to 30, 2013

## Paediatric Surgery

- ii. Attended and actively participated in the Workshop cum CME on Paediatric Subcutaneous Endoscopic Surgery and Robotics at Chennai on July 06, 2013.
- iii. Attended and actively participated in the International workshop-cum-symposium on Pediatric Urology at AIIMS, New Delhi from August 29 to 31, 2013.
- iv. Attended and actively participated in the 39th IAPSCON 2013 at Bhubaneswar from November 7 to 10, 2013.
- v. Attended and actively participated in the Operative Pediatric Colorectal workshop (By Professor Alberto Pena) at TATA Memorial Hospital, at Mumbai from January 09 to 11, 2014.

### Dr. Krishnakumar

- i. Attended the International workshop-cum-symposium on Pediatric Urology AIIMS, at New Delhi from August 29 to 31, 2013.
- ii. Attended the Stapler Workshop at Chennai on October 06, 2013
- iii. Attended the Indian Cancer Congress at New Delhi from November 20 to 24, 2013.
- iv. Attended the Symposium on Fetal Anomalies at Warangal on November 24, 2013
- v. Attended the Workshop on Bronchoscopy at Chennai from December 05 to 8, 2013.
- vi. Attended the Paediatric Oncology conference at JIPMER from March 08 to 9, 2014
- vii. Invited to talk—Acute Scrotum, Urgences Chirurgicales on June 15, 2013 at MGMC&RI, Puducherry.

### Dr. Bikash Kumar Naredi

- i. Attended the Workshop and CME on Paediatric Subcutaneous Endoscopic Surgery and Robotics at Chennai on July 6, 2013
- ii. Attended the Stapler Training program organized by Ethicon at Ethicon institute of Surgical education at Chennai from on October 6, 2013.
- iii. Attended the 8th ASEAN congress of Paediatric surgery 2013 “Paediatric Surgery: A Tale of 10 Nation” 8th International conference of ASEAN country Pediatric Surgeons at KK Hospital for Women and children Singapore from November 08 to 09, 2013.
- iv. Attended the 5th World Congress of ISHID with Live operative workshop at Lucknow from November 22 to 24, 2013.
- v. Attended the Annual conference of Association of surgeons of India (ASICON) 2013 at Ahmedabad from December 24 to 29, 2013.
- vi. Attended the Operative Pediatric Colorectal workshop at TATA Memorial Hospital at Mumbai from January 9 to 11, 2014.
- vii. Attended the 9th Annual Conference and CME cum workshop of Pediatric Endoscopic Surgeons of India PESI 2014 at Indore from February 6 to 9, 2014.

## CLINICAL/RESEARCH PROJECTS

Dr. Kumaravel S, is exploring innovative techniques involved in research in fields of minimal access surgical principles without advanced expensive instrumentation, interdepartmental research on neonatal cholestasis, hirschsprungs disease, the relationship of CAKUT and hypertension, CAKUT and nutrition and also nutrition and surgery.

**Dr. Bibekanand Jindal** is looking at the effect of sedation on the success of ultrasound guided hydrostatic reduction of Intussusception and the associated factors contributing to the successful reduction of intussusception in one study and doing a surveillance of risk factors for surgical site infections in Neonates in a Paediatric Surgical set up in Indian scenario.

**Dr. Krishnakumar**

S. No	Name of Principal Investigator	Title of Project	Duration of Project (From... To)	Funding Agency and Total Funding Sanctioned	Collaborating Institutes/ Departments	Status (completed in FY 2013–2014 or ongoing)
1.	Krishnakumar. G	Pilot project on correlation of USG, nuclear scan, histology and operative findings in PUJ obstruction in children	2 Years		Pathology Radiology Nuclear Medicine	Ongoing

**PUBLICATIONS****Journals**

1. **Dr. Bibekanand Jindal**—Sandeep Agrawala, Bibekanand Jindal, Manisha Jeena, Veereshwar Bhatnagar, ArunKumar Gupta, Venkateshwan K Iyer- Malignant rhabdoid tumor of live. J. Ind. Assoc. Pediatric. Surg. 2014; 19: 38–40.
2. **Dr. Krishnakumar**—Krishnakumar.G, shilpa Rao, rakhee Kar.—Bilateral Ovarian Mases in a young girl. Afr. J. Paediatric Surg. 2013;10: 279–281
3. **Dr. Krishna Kumar.G**—Undescended testis: A Plea for Early Diagnosis & Optimal Management. J. Genit syst. disorder S013:S<sub>1</sub> OOT: 1–6
4. **Dr. Krishna Kumar G**—Central Venous Access via Tunneled Anterior Approach to the internal jugular Vain. Emedicine Medscape.com/article/80298 dtd February 28, 2014

**PATIENT CARE SERVICES**

The Department of Paediatric Surgery, at present has a 16 bedded general ward, four bedded pay ward and a four bedded burns ward. We also run a Paediatric Surgical ICU with facilities for accommodating up to 6 neonates.

The Department runs Out Patient Services on all six (working) days of a week with an average attendance of 90 patients (35 new patients and 55 follow up patients) per day. We are performing 80 minor procedures per month on an average (Prepuccial adhesiolysis, vaginal synechiae release, incision and drainage of abscess, anal calibrations, dilatations, circumcisions, lymphnode biopsies) in the minor OT. We have carried out 848 major and minor surgeries (513 elective surgeries and 335 emergencies) last year which included about 40 per cent neonatal cases.

**Newer Services:** With the improvement in our endoscopic equipment, major laparoscopic procedures have been started for children. For the first time in Pondicherry UT completely THORACOSCOPIC diaphragmatic repair was carried out in a child. Completely LAPAROSCOPIC colorectal surgeries have also been started on a routine basis.

More complex surgeries for malignancies are being carried out, for which referrals from several other cities are now being obtained. Implantable port insertion, to enable delivery of protracted chemotherapy courses, has been successfully commenced and continuing on a regular basis.

Inter-department meet with the department of Nuclear Medicine has enabled quality Patient Care through sound academic discussion. Soon, meets with departments of Medical Oncology, Radiology, Pathology, Pediatrics, and Obstetrics will create newer awareness in academics patient care and research.

## AWARDS, HONORS AND OTHER PERSONAL ACHIEVEMENTS

**Dr. Kumaravel**—Podium presentation at JIPMER Scientific society entitled “Open Minimal Access Surgery O-MAS: The Best of Both Worlds” which was awarded the best innovation award.

**Dr. Bibekanand Jindal**—Presented a poster titled “Renal duplication: varied presentation, challenges in diagnosis and management” at the International Workshop-cum symposium on Pediatric urology held on August 29–31, 2013 at AIIMS, New Delhi. And got the best Poster award.

**Dr. Bibekanand Jindal** invited as reviewer for the journal like BMJ Case report, Indian Journal of Pediatrics and Gastroenterology Research and Practice

**Dr. Bikash Kumar Naredi**—Co-author in “Renal duplication: varied presentation, challenges in diagnosis and management” Presented by Dr. Jindal at the International Workshop-cum symposium on Pediatric urology on August 29–31, 2013 at AIIMS, New Delhi.

- i. Co- author in Best Poster award at the International workshop-cum-symposium on Pediatric Urology organized by Asian Society of Pediatric Urology (ASPU) in association with Indian Society of Pediatric Urology (ISPU) organized at AIIMS, New Delhi on August 29–31, 2013.

## ADMINISTRATION, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

**Dr. Bibekanand Jindal** is a member of JIPMER Quality Council, treasurer of JIPMER Scientific Society and secretary of JIPMER Officer’s Club and actively involved organizing various social and cultural events.

**Dr. Krishna Kumar** is a member of Web development team and Coordinator of B.Sc. Course (Operation Theater Technology).

**Dr. Bikash Kumar Naredi** is a member in CSSD Purchase Committee.

## SIGNIFICANT EVENTS IN THE DEPARTMENT

Starting of Advanced Laparoscopic and thoracoscopic services. Successfully Obtained the bid to conduct the 13th Annual Conference of the TPPS Chapter of IAPS and A National level **Live Operative Workshop** on “**Pediatric Colorectal Surgical Disorders**”.

# Paediatrics

## FACULTY LIST

- |                         |   |                                                                                                                            |
|-------------------------|---|----------------------------------------------------------------------------------------------------------------------------|
| 1. PROFESSORS           | : | i. Vishnu Bhat B. (Head)<br>ii. Mahadevan S.<br>iii. Niranjan Biswal                                                       |
| 2. ASSOCIATE PROFESSORS | : | i. Narayanan P.<br>ii. Sriram Krishnamurthy<br>iii. Adhisivam B.                                                           |
| 3. ASSISTANT PROFESSORS | : | i. Reena Gulati<br>ii. Barath J.<br>iii. Nivedita Mondal<br>iv. Venkatesh C.<br>v. Ramesh Kumar R.<br>vi. Renitha Raghavan |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Paediatrics housed in the JIPMER Women and Children Hospital has bed strength of 218. The Neonatal division is a level III NICU with 49 and 6 beds for Kangaroo Mother Care. The daily outpatient attendance averages around 200. The Department runs specialty clinics in Neonatology, Child Neurology, Communication disorders, Behaviour assessment and Guidance, Pediatric Nephrology, Cardiology, Genetic counseling, Gastroenterology, Growth and Development, HIV and High risk follow up clinic for newborns. The Pediatric ICU has 19 beds and 13 ventilators.

The department has regular teaching program for undergraduate (M.B.B.S) and post graduate (M.D) students. A separate Division of Neonatology was formed and DM in neonatology was started from the academic year 2009–2010. PhD program in Pediatrics is active with funds sanctioned from ICMR and DBT. The department also runs a Fellowship program in Paediatric Critical Care and Emergency with intake of two students per year. Since 2011, endoscopy services were also started in the department.

Research on health issues with a crying need at the regional and national level is the priority of the department. The department is committed to improve child health care through excellence in patient care, teaching and research. The department has published more than 100 scientific papers in the last 5 years in indexed journals of national and international repute.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

M.B.B.S. course (2 batches)

### *Postgraduate Courses*

M.D (Pediatrics)—10 students per academic year

## Paediatrics

### **Higher Speciality Courses**

D.M (Neonatology)—2 students per academic year

### **Research Courses**

PhD in Pediatrics—two seats per academic year

### **Other Courses**

Fellowship course in Paediatric Critical Care and Emergency—two seats per academic year

## **CONFERENCES AND CMES ORGANIZED BY DEPARTMENT**

### **Hands on Workshop on UCSC Genome Browser and its Application in Medical Genomics**

The Department organized the above workshop on November 27, 2013 at JIPMER Academic Centre. A total of 60 members (including staff and students) attended the workshop. Mr. Benet Bosco, Ph.D Scholar in Paediatrics was the faculty.

### **National Newborn Week 2013**

The department celebrated the national newborn week (November 15–21, 2013) with greatest vigor. The whole week was studded with activities involving pediatricians, obstetricians, nurses, paramedical staff, medical and nursing students, public and media focusing on neonatal health and wellbeing.

### **Neonatal Resuscitation Workshop for Nurses**

A workshop for staff nurses in Neonatal Resuscitation was organized by the Department of Paediatrics on November 17, 2013 in College of Nursing, JIPMER. A total of 40 nurses from various institutes participated in this NRP-First Golden Minute project of Indian Academy of Paediatrics. Dr. Vishnu Bhat, Dr. P. Narayanan and Dr. B. Adhisivam were among the faculty.

### **Workshop on Advanced Neonatal Resuscitation Programme**

The department in association with Indian Academy of Paediatrics (IAP) successfully conducted an Advanced Neonatal Resuscitation Programme (NRP) workshop on April 28, 2013 at JIPMER Academic Centre. Dr. B. Vishnu Bhat, Professor and Head, Department of Paediatrics, JIPMER inaugurated the Workshop. Thirty participants, mostly postgraduates in Paediatrics were trained successfully during the workshop. Among the participants 12 were from JIPMER including 10 first year Paediatric post-graduates. The other participants were from other Medical colleges in Pondicherry and Chidambaram. Hands-on training in advanced Neonatal Resuscitation was imparted using manikins and appropriate audio-visual aids. The faculty included the following:

- i. Dr. Alka Agarwal (Ghaziabad)—National Trainer
- ii. Dr. Jagdish Chandra (Hyderabad)—National Trainer
- iii. Dr. Narmada (Vellore)—National Trainer
- iv. Dr. Thiroumourougane Serane, State Co-ordinator, NRPFGM
- v. Dr. Narayanan, Assistant Professor, Paediatrics, JIPMER
- vi. Dr. Adhisivam, Assistant Professor, Paediatrics, JIPMER
- vii. Dr. Shruthi, D.M. Neonatology Fellow, Paediatrics, JIPMER

## CONFERENCES AND CMES ATTENDED BY FACULTY

### Dr. B. Vishnu Bhat

- i. Participated in a Workshop on Pneumococcal Conjugate Vaccine: Impact Evaluation in India supported by Department of Biotechnology, Ministry of Science and Technology, New Delhi and John Hopkins on May 16 and 17, 2013.
  - ii. Participated in HELIX Meeting (Hypothermia for Encephalopathy in Low Income Countries) at Chennai on June 15 and 16, 2013.
  - iii. Organized the World Breast feeding week celebrations from August 1 to 7, 2013 in JIPMER. Delivered a talk on Breast feeding at PHC, Saram, Pondicherry.
  - iv. Attended Chennai PEDICON August 23 to 25, 2013 and delivered a guest lecture on Brain chilling and co-authored the following papers which won various awards.
    - a. Dr. Balagopala Raju Award—“Effect of Kangaroo mother care in reducing pain due to heel prick among preterm neonates: A crossover trial”—Dr. B. Adhisivam—co-authors Dr. Ambiga, Dr. Manjula and Dr. B. Vishnu Bhat.
    - b. Dr. B.R. Santhana Krishnan Award—“Early versus late enteral prophylactic iron supplementation in preterm very low birth weight infants: A randomized controlled trial”—Dr. Rojo Joy—co-authors—Dr. Sriram Krishnamurthy, Dr. B. Adhisivam, Dr. B. Vishnu Bhat, Dr. Medha Rajappa and Dr. P.H. Ananthanarayanan.
    - c. Dr. T. Rajagopal Award—“Transport of sick neonates to JIPMER—A simple clinical score at arrival and its effect on outcome”—Dr. Deepak Rathod—co-authors Dr. B. Vishnu Bhat, Dr. B. Adhisivam.
  - v. Attended Emergency Medicine and Critical Care Conference and chaired a session on Paediatric Emergency on September 7, 2013.
  - vi. Participated as faculty in NTTTC Workshop at JIPMER from September 12 to 26, 2013.
  - vii. Attended Indian Journal of Paediatrics, Editors Meeting of IJP and grand rounds on September 14 and 15, 2013 at New Delhi.
  - viii. Attended Meeting of PG Curriculum committee at Bharthi Vidyapeetam, Mahatma Gandhi Medical and Research Institute, Pondicherry on October 28, 2013.
  - ix. Delivered Dr. Nagasamy oration at Madurai during the Tamil Nadu State Annual Neonatology Conference on November 9 and 10, 2013.
    - x. Co-author of award winning papers at Karnataka State NNF at Bangalore—“Does therapeutic hypothermia reduce DNA damage and influence neurodevelopmental outcome” from November 15 to 17, 2013.
  - xi. Neonatal Resuscitation Workshop was organized for Nurses at Nursing College, JIPMER on November 17, 2013.
  - xii. Release of book “Delivered too soon” was organized at Nursing College, JIPMER on November 21, 2013.
  - xiii. Attended as Guest of Honour for New Born Resuscitation programme at Mother Theresa Postgraduate and Research Institute, Pondicherry on November 23, 2013 and delivered a talk on “Initial steps of resuscitation”.
  - xiv. Attended National Neonatology Forum annual Conference at Hyderabad—Chaired a session—Parent-centered Neonatal care. Panelist for topic “Noninvasive ventilation”.
- Papers Presented
- a. Effect of therapeutic hypothermia on neurodevelopmental outcome at 30 months of age in term babies with perinatal asphyxia.
  - b. Evaluation of a new Syndrome Evaluation System (SES) with blood culture in neonatal sepsis: An RCT.
  - c. Evaluation of clofibrate in neonatal hyperbilirubinemia—A randomized controlled trial.

## Paediatrics

- xv. STAG meeting at Biotechnology Industry Research Assistant Council (BIRAC)—Social innovative standing advisory group on December 20, 2013.
- xvi. Delivered Guest lecture in AIIMS Patna—January 6 and 7, 2014
  - a. Professionalism in Medical Education
  - b. Breast feeding
  - c. Respiratory distress in newborn
- xvii. Attended CME on Rational use of Blood components at JIPMER on January 11, 2014.
- xviii. Attended CME on HIV and chaired a session—“Early infant diagnosis” “universal and standard procedure” on January 24, 2014
- xix. Participated in Panel discussion on “Neonatal care—where do we go wrong?” at Eastcoast Pedicon, Pondicherry on March 9, 2014.
- xx. Participated as Faculty in NTTC workshop from March 6 to 15, 2014.

**Dr. S. Mahadevan**

- i. Attended International Summit on Emergency Medicine and Trauma (ISEMT) 2014 at JIPMER organized from February 14 to 16, 2014 and presented a lecture entitled “envenomation in children: Pearls and myths”.
- ii. Attended National conference of paediatric critical care (NCPCC 2013), Mahabaleshwar, Maharashtra as delegate from November 21 to 24, 2013.

**Dr. Niranjan Biswal**

- i. Attended the National CME on Hematology at JIPMER. July 14 and 15, 2013.
- ii. Participated as a delegate at the International Summit on Emergency Medicine and Trauma at JIPMER, Pondicherry from February 14 to 16, 2014.

**Dr. P. Narayanan**

- i. Attended Advanced Neonatal Resuscitation Programme (NRP) for postgraduates, JIPMER, Pondicherry as Faculty (regional trainer) on April 28, 2013.
- ii. Attended International Summit on Emergency Medicine and Trauma (ISEMT 2014) at JIPMER, Pondicherry from February 12 to 16, 2014 as member of steering committee (core group) and finance committee.
- iii. Participated in Workshop on Pediatric and Neonatal Ventilation at Sri Ramachandra Medical College, Chennai from July 13 to 14, 2013 as faculty.
- iv. Attended PALS workshop from February 13 to 14, 2014 as organizer (co-ordinator).
- v. Attended PALS instructor workshop, Chennai on March 6 and 7, 2014 as Delegate.
- vi. Attended National Conference of Paediatric Critical Care (NCPCC) 2013, Mahabaleshwar, Maharashtra from November 21 to 24, 2013 as delegate.
- vii. Participated in Patient safety week by JIPMER Quality council from November 18 to 24, 2013 as faculty.
- viii. Participated in Leadership and Management Programme in Health research by INCLEN Institute of Global Health, New Delhi from March 20 to April 2, 2014 as delegate.
- ix. Participated in CME on pediatric cardiology at Pondicherry on December 1, 2013 as delegate.
- x. Participated in CME on medical equipment safety, MediEqSafe India, 2014 at JIPMER on February 24, 2014 as delegate.

**Dr. Sriram Krishnamurthy**

- i. Participated as faculty and delivered a lecture on “Urinary Tract Infections in Children” at a CME on Common Paediatric Surgical Problems organized by Indian Academy of Pediatrics-Villupuram Pondicherry Branch on August 4, 2013 at Pondicherry.



- ii. Participated as delegate in the 25th Annual Conference of the Indian Society of Paediatric Nephrology at St John's Medical College, Bangalore on November 23, 2013, in which the study conducted by him entitled "Evaluation of Premature Atherosclerosis in children with nephrotic syndrome by endothelial dysfunction and Carotid intima medial thickness" was awarded the first prize in the oral paper presentation section.
- iii. Participated as a delegate and presented a paper entitled "Efficacy of scorpion antivenom plus prazosin versus prazosin alone for Mesobuthus tamulus scorpion sting envenomation in children: A randomized controlled trial" at the International Summit on Emergency Medicine and Trauma at JIPMER, Pondicherry from February 14 to 16, 2014, which was awarded the best paper award in the oral paper presentation section.

### **Dr. B. Adhisivam**

- i. Attended INCLEN Leadership and Management Program (LAMP) for health research course from March 20 to April 2, 2014 at Faridabad, Haryana.
- ii. Attended the Signal Review Panel meeting of Pharmacovigilance programme of India (PvPI) on February 20, 2014 at Indian Pharmacopoeia Commission, Ghaziabad, Uttar Pradesh.
- iii. Attended the 6th Regional TOT at Indore on January 7 and 8, 2014 organized by IAP—Neonatal Resuscitation Program First Golden Minute Project (NRPFGM).
- iv. Attended Excellence in Paediatrics (EiP) 2013 Conference at Doha, Qatar (December 3–9, 2013) and presented a research paper (poster) titled "Effect of kangaroo mother care in reducing pain due to heel prick among preterm neonates: A crossover trial".
- v. Organized and coordinated Newborn week celebrations (November 15–21), 2013 at JIPMER.
- vi. Part of the organizing team—International Summit on Emergency Medicine and Trauma (ISEMT) 2014, February 14–16, 2014 at JIPMER.
- vii. Organized workshop on NRP on November 17, 2013 at Nursing College, JIPMER.
- viii. Organized and coordinated 10th East coast Pedicon 2014 on March 9, 2014 at Pondicherry.
- ix. Delivered a lecture on neonatal sepsis—CME "update on sepsis" on September 12, 2013 at JIPMER, Pondicherry.
- x. Organized an advanced Neonatal Resuscitation Programme (NRP) workshop on April 28, 2013 at JIPMER Academic Centre under IAP NRPFGM project.

### **Dr. Reena Gulati**

- i. Attended the conference and Workshop on Frontiers in Medical Genetics and Hands on Workshop on DNA Diagnostics from November 27 to December 2, 2013 held at SGPGIMS, Lucknow.
- ii. Attended workshop entitled "Short course on basics of epidemiology and Biostatistics and research methodology" from November 16–19, 2013 and IGMC and RI, Puducherry.
- iii. Attended the International Summit on Emergency Medicine and Trauma (ISEMT) 2014 from February 12–13, JIPMER-Puducherry.
- iv. Attended the International Rare Disease day 2014 and Medigencon 2014 held at NIMHANS, Bangalore and Centre for Human Genetics, Bangalore on February 28 and March 1 2014 as invited faculty.
- v. Attended the Workshop on "Design and conduct of observational studies" at IIPH, Delhi from March 11 to 14, 2014.

### **Dr. J. Barath**

- i. Participated in the 4th national IBD meet organized by the Colitis and Crohn's foundation of India in Kochi from February 7 to 9, 2014.
- ii. Participated in the CME and workshop on "Patient safety" held on November 23 and 24, 2013 in JIPMER, Pondicherry.

## Paediatrics

- iii. Faculty lecture on “Management of neonatal hemochromatosis” in the National pediatric gastroenterology conference 2013 held at Pune from September 27 to 29, 2013.
- iv. Faculty lecture on “Acute pancreatitis in children” in the Kunwar Viren Oswal course on Pediatric gastroenterology, hepatology and nutrition in New Delhi on the August 29, 2013.
- v. Faculty lecture on “Medical management of acute severe colitis in children” in the Pediatric IBD conference held in Chennai on August 18, 2013.

**Dr. Nivedita Mondal**

- i. Participated in “CME and Workshop on Patient Safety” on November 23 and 24, 2013 conducted by JIPMER Quality council, JIPMER.
- ii. Participated in the 5th annual conference of Association of Child Neurology (AOCN) from February 7 to 9, 2014 conducted in Hyderabad by the AOCN and Pediatrics Epilepsy Society Hyderabad and Rainbow Hospital for Women and Children.
- iii. Attended East coast Pedicon conducted on March 9, 2014 at Pondicherry.
- iv. Organized and coordinated Newborn week celebrations (November 15–21), 2013 at JIPMER.
- v. Delivered a guest lecture in CME on “Obesity in Childhood” conducted in Mother Teresa College of Nursing on September 12, 2013.

**Dr. C. Venkatesh**

- i. Participated in CME on Pediatric Cardiology, jointly organized by IAP TNSC—Villupuram, Pondicherry and Cuddalore branches in collaboration with Amrita Institute of Medical Sciences, Cochin, held on December 1, 2013, at Hotel Annamalai, Pondicherry.
- ii. Participated in CME on Rational Use of Blood Components, organized by the department of transfusion medicine, JIPMER under the aegis of Pondicherry AIDS Control Society, Puducherry, held on January 11, 2014, at NTT hall JIPMER, Pondicherry.
- iii. Participated in International Summit on Emergency Medicine and Trauma, jointly organized by GAEM, AAEMI, JAANA and JIPMER, held from February 14–16, 2014 at JIPMER, Pondicherry.
- iv. Participated in National Consortium on Emerging Trends in Early Childhood Care and Development (0–6), organized by department of social work, Pondicherry University and Honeycombs Junior, held on April 5, 2014 at convention cum cultural centre, Pondicherry University Campus, Pondicherry.

**Dr. R. Ramesh Kumar**

- i. Attended as invited faculty at 51st annual national conference of Indian academy of pediatrics (PEDICON-2014)—January 8–12, 2014, Indore.
- ii. Attended as invited Faculty and chairperson for Pediatric neurocritical season at 20th annual conference of Indian society of critical care medicine (CRITICARE-2014)—February 14–18, Jaipur.
- iii. Attended the International summit on emergency medicine and trauma (ISEMT 2014)—February 12–13, JIPMER-Puducherry.
- iv. Attended the short course on “American Heart Association (AHA)-Pediatric Advanced Life Support (PALS)-provider” at International summit on emergency medicine and trauma (ISEMT 2014)—February 12–13, JIPMER-Puducherry.
- v. Attended the short course on “American Heart Association (AHA)- Pediatric Advanced Life Support (PALS)-Instructor” on March 6, 2014, SRMC, Chennai, India.

## Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012–2013 or Ongoing)
1.	Dr. B. Vishnu Bhat	Polymorphism in S100A9 gene in relation with disease susceptibility and outcomes in neonatal sepsis	2011–2014	Intramural Research Grant from JIPMER: ₹1,00,000 for 3 years	Microbiology	Ongoing
2.	Dr. B. Vishnu Bhat	Effects of Zinc supplementation on serum calprotectin level and inflammatory markers in neonatal sepsis—a double blind, randomized controlled trial	2013–2016	ICMR ₹13.97 lakhs	Microbiology	Ongoing
3.	Dr. B. Vishnu Bhat	Effect of therapeutic hypothermia on DNA damage in perinatal asphyxia	2010–2013	Intramural research grant JIPMER ₹1,00,000 for one year	Anatomy	Completed
4.	Dr. B. Vishnu Bhat	Epigenetic variation in relation with disease susceptibility and their outcomes in neonatal sepsis.	2013–2014	ICMR ₹6.74 lakhs	–	Ongoing
5.	Dr. B. Vishnu Bhat	Randomized trial of BCG in low-birth-weight babies <2,000 gram (BLOW trial)	–	–	–	Ongoing
6.	Dr. B. Vishnu Bhat	Perinatal risk stratification of preterm neonates and developmental outcomes—multi-centre study	–	–	CDC, Trivandrum	Ongoing
7.	Dr. Niranjana Biswal	Outcome of yellow phosphorus poisoning treated with exchange transfusion in children	2012–2014	–	–	Ongoing

(Continued)

## Paediatrics

S. No.	Name of Principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012–2013 or Ongoing)
8.	Dr. P. Narayanan	Procalcitonin guided antibiotic therapy in pediatric intensive care patients—a randomized control trial	2011–2013	Intramural research grant from JIPMER: ₹2,00,000 for 2 years	Biochemistry	Ongoing
9.	Dr. P. Narayanan	Predictors of survival in children undergoing intubation in the pediatric emergency—A pilot study	2012–2013	–	–	Ongoing
10.	Dr. P. Narayanan	Noninvasive prognosis of dengue—	2014–2016	DST funded for ₹12 lakhs	–	Ongoing
11.	Dr. Sriram Krishnamurthy	Early versus late enteral prophylactic iron supplementation in very low birth weight newborn infants: A randomized controlled trial	2011–2013	Intramural research grant from JIPMER: ₹80,000	Biochemistry	Completed and published
12.	Dr. Sriram Krishnamurthy	Profile and follow-up of snake envenomation— associated acute kidney injury in children	2012–2014	–	Biochemistry	Ongoing
13.	Dr. B. Adhisivam	Postnatal counseling on exclusive breast-feeding using video	2012–2015	ICMR ₹7,00,000	–	Ongoing
14.	Dr. B. Adhisivam	A randomized double-blind placebo-controlled study of symbiotic in children with acute watery diarrhea	2012–2013	–	–	Ongoing
15.	Dr. Reena Gulati	Screening for alpha thalassemia gene mutations in Pondicherry—a pilot study	2011–2013	Intramural research grant from JIPMER: ₹2,00,000 for 2 years	–	Completed

16.	Dr. Reena Gulati	Evaluation of children with hypothyroidism by Scintigraphy	2012–2015	–	Nuclear medicine	Ongoing
17.	Dr. Reena Gulati	Molecular studies on down syndrome children with atrio-ventricular septal defect	2011–2014	–	Cardiology	Ongoing
18.	Dr. Reena Gulati	“Hospital admissions, morbidity and mortality in children with down Syndrome—a descriptive study”	2012–2015	–	–	Ongoing
19.	Dr. Reena Gulati	“Study on HLA G and E in patients with juvenile Idiopathic arthritis”	2013–2016	–	Clinical immunology	Ongoing
20.	Dr. Reena Gulati	Study on genome wide analysis of sub-microscopic genetic aberrations in children with idiopathic intellectual disability/multiple congenital anomalies	2014–2017	DBT ₹ 43.9 lakhs	SGPGIMS, Lucknow	To be started
21.	Dr. J. Barath	Hospital based seroprevalence of Hepatitis E viral infection in children from Pondicherry	2012–2013	Intramural research grant from JIPMER: ₹1,00,000	Microbiology	Ongoing

## PUBLICATIONS

### Journals

1. Pandi K, Krishnamurthy S, Srinivasaraghavan R, and Mahadevan S. Efficacy of scorpion antivenom plus prazosin versus prazosin alone for *Mesobuthus tamulus* scorpion sting envenomation in children: A randomised controlled trial. *Arch. Dis. Child.* February 18, 2014; doi: 10.1136/archdis-child-2013-305483. [Epub ahead of print]
2. Joy R, Krishnamurthy S, Bethou A, Rajappa M, Ananthanarayanan PH, and Bhat BV. Early versus late enteral prophylactic iron supplementation in preterm very low birth weight infants: A randomised controlled trial. *Arch. Dis. Child Fetal. Neonatal. Ed.* 2014; 99: F105–9.
3. Prakash V, Krishnamurthy S, Mahadevan S, Bethou A, and Barathi SD. Infective endocarditis and septic pulmonary embolism following scorpion sting envenoming in an 11-year-old child. *PaediatrInt. Child Health.* November 6, 2013. [Epub ahead of print]

4. Krishnamurthy S, and Srinivasaraghavan R. Concerns regarding paediatricians certificate of neonatal wellbeing for puerperal sterilization. *Ind. Pediatr.* 2013; 50: 527.
5. Srinivasaraghavan R, Krishnamurthy S, Chandar R, Cassandrini D, Mahadevan S, Bruno C, and Santorelli FM. Acitretin-responsive ichthyosis in chnarin-dorfman syndrome with a novel mutation in the ABHD5/CGI-58 gene. *Pediatr. Dermatol.* June 12, 2013, doi: 10.1111/pde.12170. [Epub ahead of print]
6. Krishnamurthy S. Incidence and etiology of acute kidney injury in SouthernIndia: author's reply. *Ind. J. Pediatr.* September 2013; 80: 797.
7. Srinivasaraghavan R, Krishnamurthy S, and Mahadevan S. Catastrophic intracranial hemorrhage as a presenting feature of juvenile polyarteritis nodosa. *J. Child Neurol.* April 11, 2013. [Epub ahead of print]
8. Harikrishnan KN, Krishnamurthy S, Rajesh NG, and Mahadevan S. Renal involvement in epidermolysis bullosa simplex: An unusual presentation. *Ind. J. Pediatr.* January 2014; 81: 102–3.
9. Namdev S, Krishnamurthy S, Biswal N, and Jagadisan B. Pericardial tamponade innephrotic syndrome: An uncommon complication. *Ind. J. Pediatr.* July 2013; 80: 598–600.
10. Krishnamurthy S, Mahadevan S, Mandal J, and Basu D. Leptospirosis in association with hemophagocytic syndrome: a rare presentation. *Ind. J. Pediatr.* June 2013; 80: 524–5.
11. Krishnamurthy S, and Srinivasan S. Lichen planus and nephroticsyndrome--coincidence or causation? *Ind. Pediatr.* May 2012; 49: 421.
12. Mohanan S, Chandrashekar L, Semple RK, Thappa DM, Rajesh NG, Negi VS and Gulati R. H syndrome with a novel homozygous R134C mutation in SLC29A3 gene. *Int. J. Dermatol.* May 2013; 52: 820–823.
13. Devaraju P, Reni BN, Gulati R, Mehra S, and Negi VS. Complement C1q and C2 polymorphisms are not risk factors for SLE in Indian Tamils. *Immunobiology.* February 25, 2014. pii: S0171-2985(14)00028-X. doi: 10.1016/j.imbio.2014.02.004. [Epub ahead of print]
14. Gane B, Bhat BV, Adhisivam B, Joy R, Prasadkumar P, Femitha P, and Shruti B. Risk factors and outcome in neonatal necrotising enterocolitis. *Ind. J. Pediatr.* January 4, 2014. [Epub ahead of print]
15. Gane BD, Bhat V, Rao R, Nandhakumar S, Harichandrakumar KT, and Adhisivam B. Effect of therapeutic hypothermia on DNA damage and neurodevelopmental outcome among term neonates with perinatal asphyxia: A randomized controlled trial. *J. Trop Pediatr.* December 16, 2013. [Epub ahead of print]
16. Namdev S, Bhat V, Adhisivam B, and Zachariah B. Oxidative stress and antioxidant status among neonates born to mothers with pre-eclampsia and their early outcome. *J. Matern Fetal. Neonatal. Med.* December 2, 2013. [Epub ahead of print]
17. Adhisivam B, and Chandrasekaran V. Images in clinical medicine. A half-red baby. *N. Engl. J. Med.* July 2013; 369: 373.
18. Chidambaram AG, Manjula S, Adhisivam B, and Vishnu Bhat B. Effect of kangaroomother care in reducing pain due to heel prick among preterm neonates: Acrossover trial. *J. Matern. Fetal. Neonatal. Med.* March 2014; 27: 488–90.
19. Karlo J, Bhat BV, Koner BC, and Adhisivam B. Evaluation of renal function in term babies with perinatal asphyxia. *Ind. J. Pediatr.* June 8, 2013. [Epub ahead of print]
20. Bhat BV, and Adhisivam B. Neurosensory stimulation among preterm infants. *Ind. J. Pediatr.* June 2013; 80: 444–5. doi: 10.1007/s12098-013-1077-9. [Epub 2013 May 22]
21. Adhisivam B, Harikrishnan KN, Femitha P, Joy R, Prasadkumar P, Bharadwaj SK, Bahubali GD, Halnaik D, and Bhat BV. Silencing a noisy goitre sans scalpel. *Arch. Dis. Child Fetal. Neonatal. Ed.* July 2013; 98: F361.
22. Chourasia N, Surianarayanan P, Adhisivam B, and Vishnu Bhat B. NICU admissions and maternal stress levels. *Ind. J. Pediatr.* May 2013; 80: 380–4.

23. Ramasamy S, Biswal N, Bethou A, and Mathai B. Comparison of two empiric antibiotic regimen in late onset neonatal sepsis--a randomized controlled trial. *J. Trop. Pediatr.* February 2014; 60: 83–6.
24. Chourasia N, Surianarayanan P, Bethou A, and Bhat V. Stressors of NICU mothers and the effect of counseling-experience from a tertiary care teaching hospital, India. *J. Matern. Fetal. Neonatal. Med.* April 2013; 26: 616–8.
25. Narayanan P, Rustagi RS, Sivaprakasam P, Subramanian M, Parameswaran S, Mandal J, and Kaplan BS. Haemolyticuraemic syndrome associated with *Pseudomonas aeruginosa* sepsis. *J. Med. Microbiol.* November 2013; 62: 1760–2.
26. Thomas D, Parameswaran N, and Harish BN. Catheter related blood stream infections in the paediatric intensive care unit: A descriptive study. *Ind. J. Crit. Care Med.* May 2013; 17: 135–9.
27. Mohanan S, Chandrashekar L, Semple RK, Thappa DM, Parameswaran N, Negi VS, and Ramassamy S. Rabson-Mendenhall syndrome with recurrent cerebral infarcts caused by a novel INSR mutation. *Int. J. Dermatol.* February 2013; 52: 182–5.
28. Praharaaj I, Sujatha S, Parija SC, and Mahadevan S. Unusual manifestation of *Salmonella enterica* serotype enteritidis infection in a case of Langerhans cell histiocytosis. *Ind. J. Med. Microbiol.* October–December 2013; 31: 409–11.
29. Sankar J, Nabeel R, Sankar MJ, Priyambada L, and Mahadevan S. Factors affecting outcome in children with snake envenomation: A prospective observational study. *Arch. Dis. Child.* August 2013; 98: 596–601.
30. Raghavan S, Mahadevan S, and Kattimani S. Enuresis among children with inattentive ADHD--a potential marker for a distinct sub-group. *Asian. J. Psychiatr.* February 2013; 6: 83–4.
31. Madhugiri VS, Gundamaneni SK, Santosh V, Jagadisan B, Sasidharan GM, Roopesh-Kumar RV, Yadav AK, Singh M, Ananthakrishnan R, Pariarath N, and Biswal N. Acute pyogenic necrotizing encephalomyelitis: A fulminant and fatal infection. *J. Neurosurg. Pediatr.* May 2013; 11: 591–5.
32. Rahul I, Krishnamurthy S, Satheesh S, Biswal N, Bobby Z, and Lakshminarayanan S. Brachial artery flow-mediated dilatation and carotid intima medial thickness in pediatric nephrotic syndrome: a cross-sectional case-control study. *Clin. Exp. Nephrol.* March 18, 2014. [Epub ahead of print]
33. Krishnamurthy S, Narayanan P, Prabha S, Mondal N, Mahadevan S, Biswal N, and Srinivasan S. Clinical profile of acute kidney injury in a pediatric intensive care unit from Southern India: A prospective observational study. *Ind. J. Crit. Care Med.* July 2013; 17: 207–13.
34. A Manoj, K Ramachandra Rao, Vishnu Bhat B, Venkatesh C, and Bobby Z. Correlation of DNA damage and oxidative stress with organ dysfunction in perinatal asphyxia. *Curr. Pediatric. Res.* 2014; 18(1): 5–7.

## Books

Nil

## Book Chapters

1. Srivastava A, Yachha SK, Jagadisan B 2013, Diseases of gastrointestinal system and liver. In: Paul VK, Bagga A, (eds). Ghai essential paediatrics 8th ed. CBS publishers, New Delhi
2. Srivastava A, Jagadisan B. Celiac disease. In: Bavdekar A, Matthai J, Sathiasekaran M, Yachha SK. IAP speciality series on Pediatric gastroenterology. 2nd ed. New Delhi: Jaypee brothers medical publishers:2013
3. Paul T Antony, Reena Gulati, Vir S Negi. Sarcoidosis. In: Prakash P, URK Rao Ed. Manual of Rheumatology. 4th Edition. The National Book Depot: Publishers, 2013.

## PATIENT CARE SERVICES

### Clinical Services

S. No.	OPD/Special Clinics	Total Cases
1.	Paediatrics—general OPD	69,386
2.	Special clinics	
	Follow-up clinics—paediatrics:	
	1. Cardiology	1,859
	2. Child guidance	1,469
	3. Endocrinology	912
	4. Gastroenterology	1,040
	5. Genetic services	1,699
	6. Nephrology	2,287
	7. Neurology	10,912
	8. Tuberculosis	524
	9. Under five	12,220
	Total number of attendance in special clinics	32,922
3.	Total number of admissions ward	3,193
	NICU	3,195
	PICU	525

### Laboratory Services

Department side laboratory caters to all basic investigations including routine haemograms and urine examination of all inpatients.

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

- i. Dr. B. Vishnu Bhat served as Section Editor for Indian Journal of Paediatrics
- ii. Dr. B. Vishnu Bhat was awarded the following awards:
  - a. Dr. T. Rajagopal Award—“Transport of sick neonates to JIPMER—a simple clinical score at arrival and its effect on outcome”
  - b. B.R. Santhana Krishnan Award “Oxidative stress and Antioxidant status among neonates born to members with pre-eclampsia and their early outcome”
  - c. Dr. Balagopala Raju Award—“Effect of Kangaroo mother care in reducing pain due to heel prick among preterm neonates: A crossover trial”
  - d. Dr. B.R. Santhana Krishnan Award—“Early versus late enteral prophylactic iron supplementation in preterm very low birth weight infants: A randomized controlled trial”
  - e. Dr. S. Mahadevan was appointed as Dean, JIPMER since September, 2013.
- iii. Dr. S. Mahadevan was awarded Faculty Scholar certificate by Global Academy of Emergency Medicine (GAEM) at ISEMT 2014.
- iv. Dr. S. Mahadevan served as Editor in Chief, Indian Journal of Emergency Paediatrics.
- v. Dr. Sriram Krishnamurthy served as Section Editor of “Child India”, a bimonthly e-newsletter published by the Indian Academy of Pediatrics, w.e.f 1.1.2013 and was Certificate of Appreciation by the Indian Academy of Pediatrics.
- vi. Dr. Sriram Krishnamurthy was awarded Dr B.R. Santhanakrishnan award for having co-authored a paper entitled “Early versus late enteral prophylactic iron supplementation in preterm VLBW



- infants: A randomized controlled trial” during 38th Annual Conference of the IAP Tamil Nadu State Chapter held at Chennai on August 23, 2013.
- vii. Dr. B. Adhisivam Completed course for Regional trainer advanced NRP (IAP –NNF—NRPFGM).
  - viii. Dr. B. Adhisivam was Awarded Dr. V. Balagopala Raju Award (2013) for research paper on Kangaroo mother care.
  - ix. Dr. B. Adhisivam awarded Dr. B.R. Santhanakrishnan Award (2013) for research paper (co-author) on Iron supplementation in preterm babies.
  - x. Dr. B. Adhisivam was awarded Dr. T. Rajagopal Award (2013) for research paper (co-author) on Neonatal transport.
  - xi. Dr. B. Adhisivam was awarded 2nd prize in poster presentation on neonatal transport—International Summit on Emergency Medicine and Trauma (ISEMT 2014), February 14–16, 2014 at JIPMER.
  - xii. Dr. R. Ramesh Kumar was awarded “Hansraj Nayyar Award” for best research (young scientist)—February 14, 2014; CRITICARE-2014, Jaipur.
  - xiii. Dr. R. Ramesh Kumar was awarded second best prize (Runner up) “Dr. V. Balagopal Raju Endowment Award”—January 12, 2014; PEDICON-2014, Indore.

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### **Dr. B. Vishnu Bhat**

- i. Guided dissertation entitled “Respiratory morbidity among newborns and their outcome during early infancy” which was submitted in August, 2013.
- ii. Guided dissertation entitled “Epidemiological and clinical profile of hospitalized children with moderate and severe acute malnutrition” which was submitted in August, 2013.
- iii. Faculty NTTTC, JIPMER.
- iv. Executive Committee Member, JIPMER Alumni Association.
- v. Editor—Current Paediatric Research.
- vi. Section Editor—Indian Journal of Paediatrics.

### **Dr. S. Mahadevan**

- i. Appointed as Dean, JIPMER since September 2013.
- ii. Guided dissertation entitled “Efficacy of scorpion antivenom plus prazosin versus prazosin alone for scorpion sting envenomation in children—a randomized controlled trial” which was submitted in August, 2013.
- iii. Member of National Taskforce on Snake bite management (GOI and ICMR).
- iv. National Consultant for Wilderness and Environmental Medicine, Stanford University, USA.
- v. Dean School of Medicine, Pondicherry University.

### **Dr. Niranjan Biswal**

- i. Guided dissertation entitled “Role of probiotic prophylaxis against nosocomial infections in patients on mechanical ventilation—an open label randomized controlled trial” which was submitted in August, 2013.
- ii. Guided dissertation entitled “Risk factors associated with MRSA infection in children” which was submitted in August, 2013.
- iii. Office Committee Member: Internal Clinical Assessment Cell (ICAC) for MBBS and MD.
- iv. External examiner for MD Paediatrics, SRMS Porur.
- v. Expert adviser to UPSC (Govt. of India) for selection of specialists in Paediatrics.

**Dr. P. Narayanan**

- i. Management of children in PICU and Paediatric Emergency.
- ii. Management of children attending the paediatric cardiology follow up clinic.
- iii. Faculty for MD in Emergency Medicine.
- iv. Faculty for Interns and PG orientation programme by NTTTC.
  - v. Purchase of consumables and equipments in the department.
- vi. Group Leader of JIPMER quality council.
- vii. Guided dissertation entitled “severe sepsis in a tertiary care PICU—a descriptive study” which was submitted in August, 2013.

**Dr. Sriram Krishnamurthy**

- i. Guided dissertation entitled ‘Evaluation of Premature Atherosclerosis in children with nephrotic syndrome by endothelial dysfunction and Carotid intima medial thickness’ (Submitted in August, 2013).
- ii. Appointed as Deputy warden of Osler House (MBBS boys hostel) w.e.f 6.9.2013.
- iii. External Examiner for MBBS examinations
  - a. PGIMER, Chandigarh (September 2013) (Dissertation).
  - b. Pondicherry University (December 2013) (Theory).
  - c. Balaji Vidyapeeth, Pondicherry (December 2013) (Theory).
- iv. Member of the writing Team of the Manual on Facility Based Care of Severe Acute Malnutrition published by the Ministry of Health and Family Welfare, Government of India, 2013.
  - v. Appointed as Section Editor in International Journal of Advanced Medical Research, JIPMER’s official journal since February 2014.
- vi. In charge of the Pediatric Nephrology Clinic at JIPMER.
- vii. External examiner for Final MBBS University examinations (Pediatrics)—BALAJI Vidyapeeth University and University of Pondicherry.
- viii. Faculty for Interns orientation programme by NTTTC.

**Dr. B. Adhisivam**

- i. Guided dissertation entitled “Transport of sick neonates to JIPMER: A simple score at arrival and its effect on outcome” which was submitted in August, 2013.
- ii. Member in JIPMER Quality Council.
- iii. Member, JIPMER H1N1 monitoring committee.
- iv. Member, Committee for the Purchase and Inspection of Furniture items.
  - v. District trainer for NRP—FGM (Neonatal resuscitation—first golden minute project).
- vi. External examiner for Final MBBS University examinations (Pediatrics)—Tamil Nadu DR M.G.R. Medical University and University of Pondicherry.

**Dr. Reena Gulati**

- i. Guided a thesis entitled “Quality of life in patients with Juvenile Idiopathic arthritis” submitted in August 2013.
- ii. Member of JIPMER Quality Council as Quality Councilor.
- iii. Member of JIPMER Counselling Committee.
- iv. In charge of the Genetic Clinic and Genetic Counselling Clinic at JIPMER.

**Dr. J. Barath**

- i. Guided and submitted a post-graduate thesis on “Bacterial and fungal infections complications in paediatric acute liver failure”.
- ii. Performed 300 upper gastrointestinal endoscopy procedures during the year 2013–2014.

**Dr. Nivedita Mondal**

- i. Started the high risk newborn follow up clinic which now runs three days a week.

**Dr. C. Venkatesh**

- i. Started the Follow-up clinic for children with Asthma.
- ii. Setting up spirometry lab in JIPMER Women and Children's Hospital.

**SIGNIFICANT EVENTS IN THE DEPARTMENT**

Dr. Frank Shann, Professor of Paediatrics at Melbourne University, Australia visited the Department of Paediatrics, JIPMER from 10.2.2014 to 11.2.2014. As visiting professor in our Department he delivered lectures in the Department. The residents and faculty interacted with him on various academic topics and benefited from his vast experience.

Dr. Janet Lin, Director of Paediatric Intensive Care from University of Illinois, Chicago, USA delivered a guest lecture in the Department of Paediatrics on 15.2.2014.

Dr. Srinivas, Professor, Dept. of Pediatric Surgery, AIIMS, New Delhi delivered a guest lecture on Intestinal obstruction in newborn on 10/3/2014 in JIPMER.

# Pathology

## FACULTY LIST

- |                         |   |                                                                      |
|-------------------------|---|----------------------------------------------------------------------|
| 1. PROFESSOR AND HEAD   | : | Bhawana Ashok Badhe                                                  |
| 2. PROFESSORS           | : | i. Surendra Kumar Verma<br>ii. Siddaraju N.<br>iii. Debdatta Basu    |
| 3. ASSOCIATE PROFESSORS | : | i. Rakhee Kar<br>ii. Pampa ChToi<br>iii. Rajesh NG                   |
| 4. ASSISTANT PROFESSORS | : | i. Sajini Elizabeth Jacob<br>ii. BH Srinivas<br>iii. Wamanrao Barwad |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Pathology started way back at the inception of JIPMER. It was headed by stalwarts like Dr. Reddy D.J., Dr. Arora A.L., Dr. Veliath A.J., Dr. Kamala Chandra and Dr. Malati Madhavan. Over the years, it has developed into a multidisciplinary department with a well-developed undergraduate and postgraduate teaching. The department played a progressive role in the patient care by providing the essential in-patient and out-patient laboratory services including the sophisticated investigations like immunohistochemistry (IHC) and immunofluorescence (IF), along with 24-h emergency services. To enhance the patient care services, the department conducts regular weekly and fortnightly interdepartmental meetings with the departments of Medical and Surgical Oncology, Pediatric Surgery, Orthopaedics, Clinical Hematology, Nephrology, Neurosurgery and Dermatopathology. Dr. Debdatta Basu, Professor of Pathology, is one of the active faculty members of the department of Medical Education and Dr. Rakhee Kar is an active member of JIPMER quality council (JQC). During the years 2013–2014, the department carried out regular research activities in the form of short term ICMR projects (undergraduates), MD dissertations (postgraduate students) and funded research projects (faculty). The research work was presented at Regional, National and International forums, and also published in peer reviewed National and International Journals. The Department hosted the 43rd Annual Conference of Indian Academy of Cytologists (IAC), in which the prestigious NALINIBAI THAKKAR AWARD was bagged by the Department of Pathology, JIPMER.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

- i. MBBS
- ii. B.Sc. (MLT)

- iii. B.Sc. Nursing
- iv. B.Sc. Operation theatre technology
- v. B.Sc. Dialysis technology
- vi. B.Sc. Perfusion technology
- vii. B.Sc. Medical Records technology and
- viii. B.Sc. Neurotechnology

### **Postgraduate Courses**

- i. M.D. (Pathology)
- ii. M.Sc. (MLT) Cytopathology

### **Research Courses**

- i. PhD

## **CONFERENCES AND CONTINUING MEDICAL EDUCATION PROGRAMMES ORGANIZED BY THE DEPARTMENT**

The department hosted the Annual Conference of Indian Academy of Cytologists (IAC) from October 3 to 6, 2013 under the guidance of Dr. Bhawana A Badhe, Professor and Head of the Department of Pathology. Professor Dr. Surendra Kumar Verma was the Organizing Secretary for the CME. All the faculty members in the department, as well as, faculty from the various private Medical Colleges of Pondicherry were in-charge for various committees. An active participation of the entire faculty and the Junior and Senior Residents of the department was responsible for the successful hosting of the Conference.

Intradepartmental CME organised by the department included:

- i. Intradepartmental CME on Breast Pathology on August 17<sup>th</sup>, 2013.
- ii. Intradepartmental CME on Gynaecological Oncology on November 8<sup>th</sup>, 2013.
- iii. Intradepartmental Neuropathology CME on December 14<sup>th</sup>, 2013.
- iv. Intradepartmental CME on Thyroid Pathology on January 7<sup>th</sup>, 2014.

## **CONFERENCES AND CONTINUING MEDICAL EDUCATION PROGRAMMES ATTENDED BY FACULTY**

### **Dr. Bhawana A Badhe**

- i. Assumption of charge as the Head of the department of Pathology on July 1<sup>st</sup>, 2013.
- ii. Organised and delivered a lecture on “Fibroepithelial breast tumors: Diagnostic issues” in the intradepartmental CME on August 17<sup>th</sup>, 2013.
- iii. Participated as panelist in panel discussion in Hematology CME held at JIPMER, Pondicherry, on September 14 and 15, 2013.
- iv. Organised CME in Gynecologic Pathology in the department of Pathology in association with the 21<sup>st</sup> Annual Conference of AGOICON (association of Gynaecological Oncologist of India) held at JIPMER on November 8<sup>th</sup>, 2013.
  - v. Delivered a guest lecture on “Immunohistochemistry of ovarian tumours” in 21<sup>st</sup> Annual conference of AGOICON of association of Gynecological Oncologists of India held at JIPMER on November 8<sup>th</sup>–10<sup>th</sup>, 2013.
- vi. Organised intradepartmental CME on “Neuropathology” on December 14<sup>th</sup>, 2013.
- vii. Organised intradepartmental CME on “Thyroid Pathology” on January 7<sup>th</sup>, 2014.

- viii. Attended International Academy of Pathology Indian Division (IAPID) Annual conference held at Aurangabad on December 12<sup>th</sup>, 2013 as a Guest Faculty.
- ix. Attended “APCON 2013” (the National Conference of Indian Association of Pathologists and Microbiologists) held at Aurangabad, Maharashtra from December 12<sup>th</sup> to 15<sup>th</sup>, 2013.
- x. Invited as Guest Teaching Faculty at Sri Ramachandra Pathology Annual Rapid Review Course (SPARRC) 2014 held at SRMC College, Chennai from January 6<sup>th</sup> to 11<sup>th</sup>, 2014. She delivered lecture and slide discussion on Hematologic lesions.
- xi. Authored and co-authored 10 papers presented at various conferences, two of which won the “BEST POSTER AWARD”.
- xii. Chaired an “Award session” in the CYTOCON-2013.
- xiii. Member of Institutional Biosafety committee (IBSC) of JIPMER.
- xiv. Eight publications in the peer reviewed journals.

### **Dr. Surendra Kumar Verma**

- i. Organizing Secretary of CYTOCON-2013 (the Annual Conference of IAC). The prestigious “NALININIBAI THAKKAR AWARD” was won by the student guided by him.
- ii. Delivered a guest lecture on “Recent advances in pathogenesis of atherosclerosis at ISARCON-2013”, held at Cancer Institute, Thrissur in the month of November, 2013.
- iii. Attended the 3rd “Annual Conference of Indian Academy of Biomedical Sciences” held at Aligarh on December 14<sup>th</sup>, 2013 and delivered Lecture on “Role of adipocytokines in carcinogenesis”.
- iv. Attended and delivered the Presidential address in the CME (Puducherry and Tamilnadu chapter) held at CMC Vellore in the month of March, 2014.
- v. Delivered a guest lecture on “Awareness of Cancer” at Agra College of Science, Agra and the lecture was published in the leading National newspapers and broadcasted on television on December 19<sup>th</sup>, 2013.
- vi. Delivered a lecture on “Role of squash cytology in CNS tumors” in an intradepartmental CME on November 14<sup>th</sup>, 2013.
- vii. Chaired a session in Paediatric oncology CME organized by the Regional Cancer Centre (RCC, JIPMER) on March 9<sup>th</sup>, 2014.
- viii. Presented and co-authored 12 papers at various conferences.

### **Dr. N. Siddaraju**

- i. Delivered a guest lecture on “Fluid cytology” in the CYTOCME-2013, held at Indira Gandhi Medical College and Research Institute on April 27<sup>th</sup>, 2013.
- ii. Organizing committee member (Scientific and Souvenir committees) of the 42nd annual conference of Indian Academy of Cytologists (IAC) held at JIPMER, Pondicherry in the month of October, 2013. He delivered a guest lecture on “Approach to metastatic male genital cancers” in the pre-conference CME. He authored and co-authored 22 papers (oral and posters) in the conference, one of which won the prestigious “NALINIBAI THAKKAR AWARD” and two of them won the “BEST POSTER AWARDS”.
- iii. Participated in various intradepartmental CMEs and spoke on “Cytodiagnostic approach to thyroid neoplasms” in the intradepartmental CME on Thyroid Pathology on January 7<sup>th</sup>, 2014.
- iv. Chaired a session in the Pediatric Oncology CME held on March 9<sup>th</sup>, 2014, and co-authored a poster
- v. An invited speaker at the 2<sup>nd</sup> IAC-KC-CON 2014, held at Father Muller Medical College, Mangalore, Karnataka on March 29<sup>th</sup>, 2014 and March 30<sup>th</sup>, 2014. He delivered a guest lecture titled “Grey zones in thyroid cytopathology” and conducted a slide seminar on “Interesting lesions of thyroid”. He also co-authored five papers presented in the conference.

**Dr. Debdatta Basu**

- i. Officer-in-charge of the department of “Transfusion Medicine” from July 1<sup>st</sup>, 2013.
- ii. Core faculty member for Workshop on “Question Paper Setting and Multiple Choice Questions” organized by Department of Medical Education held on July 7<sup>th</sup>, 2013 and August 11<sup>th</sup>, 2013 respectively.
- iii. A resource person and speaker at Recent Advances in Health Professional Education at Mahatma Gandhi Medical College and Research Institute, Pondicherry on July 19<sup>th</sup>, 2013. Spoke on Hierarchy of Learning Outcomes—SOLO taxonomy.
- iv. A guest speaker at “CME in Pathology” held at CMC, Vellore on July 27<sup>th</sup>, 2013 during the felicitation for Dr. Shiela Nair. Spoke on “Lymphoma Mimics”.
- v. A guest speaker at “CME on Hematopathology” conducted at Chennai Medical College and Research Centre, SRM group at Trichy on September 10<sup>th</sup>, 2013; he spoke on “Approach to a Lymph Node Biopsy”.
- vi. Attended “HEMATOCON-2013”, the 54<sup>th</sup> Annual Conference of Indian Society of Hematology and Blood Transfusion at Mumbai between November 6<sup>th</sup> and 10<sup>th</sup>, 2013. He was a guest faculty at Pre conference workshop on “Hodgkin Lymphoma” held at Tata Memorial Hospital, in which he discussed cases of Hodgkin Lymphoma. He was also a Chairperson and speaker at a session on “Lymphoma”, wherein he spoke on “Lymphoma in HIV/AIDS”.
- vii. A Chairperson and Faculty member at “AGOICON”, the 21<sup>st</sup> Annual Conference of Association of Gynecological Oncologists of India, held at JIPMER, Pondicherry from November 8<sup>th</sup> to 10<sup>th</sup>, 2103.
- viii. A faculty at “South India Lymphoma Group meeting” held at Kidwai Institute of Oncology, Bangalore on November 18<sup>th</sup>, 2013, where he presented “A case of Hodgkin lymphoma and Castleman disease”.
- ix. A guest faculty at the “1<sup>st</sup> Indian Cancer Congress” in New Delhi as faculty and participated in the “Hodgkin lymphoma workshop” on November 20<sup>th</sup>, 2013. He presented “An interesting case of Hodgkin lymphoma and discussed the issues related to diagnosis of Hodgkin Lymphoma”.
- x. An invited faculty at Sri Ramachandra Pathology Annual Rapid Review Course 2014 held at SRMC College, Chennai from January 6<sup>th</sup> to 11<sup>th</sup>, 2014. He took a session on Non-neoplastic lymph node pathology.
- xi. In-charge of Scientific Committee at the National Hematology CME organized by the departments of Pathology, Hematology and Medical Oncology. Conducted a panel discussion in Hematology CME held at JIPMER, Pondicherry, on September 14<sup>th</sup> and 15<sup>th</sup>, 2013.
- xii. Delivered a guest lecture on “Diagnostic dilemmas in onco-pathology in pediatric tumors” in the Regional Pediatric Oncology Conference (REPOC 2014) held at JIPMER on March 8<sup>th</sup> and 9<sup>th</sup>, 2014.
- xiii. Attended the 3<sup>rd</sup> South India Lymphoma Group meeting at Cancer Institute, Adyar, Chennai on March 15<sup>th</sup>, 2014 as faculty. Presented a case of granulomatous inflammation masking angioimmunoblastic lymphoma.
- xiv. Presented and co-authored 15 papers at various conferences, one of which received the “BEST POSTER AWARD”.

**Dr. Rakhee Kar**

- i. Attended a “Workshop on Purchase Procedures” organized by the Purchase Section, JIPMER on April 6, 2013.
- ii. Part of the organizing team and conducted 3<sup>rd</sup> ISHBT “Hematology Quiz” for post graduates-state level (TN and Pondicherry) as Quiz master held at JIPMER, Puducherry on July 13<sup>th</sup>, 2013.
- iii. Participated in the Regional Workshop for sensitization and awareness on “National Medical College Network” Project of the Ministry of Health and Family Welfare, Government of India, held on August 16<sup>th</sup>, 2013 at JIPMER, Puducherry as a member of JIPMER Telemedicine Committee.

- iv. Part of the organizing team and moderated a session on “Interesting cases” in the CME on breast pathology for post graduates held at JIPMER, Puducherry on August 17<sup>th</sup>, 2013.
- v. Part of JQC blood and injection safety group which in collaboration with BD organized and established model injection room at Old OPD Block and conducted a blood and injection safety workshop for training of trainers on September 4<sup>th</sup>, 2013 at JIPMER.
- vi. Part of the organizing team and chaired a session in Hemat CME 2013 held at JIPMER, Puducherry on September 14<sup>th</sup> and 15<sup>th</sup>, 2013.
- vii. Conducted a slide discussion seminar in CME on hematology as invited speaker organized by Department of Pathology, Sree Balaji Medical College and Hospital on September 25, 2013.
- viii. Part of the organizing team and participated in the 43<sup>rd</sup> Annual Conference of the Indian Academy of Cytologists (CYTOCON-2013) held at JIPMER, Puducherry from October 3<sup>rd</sup> to 6<sup>th</sup>, 2013 and judged a poster presentation session in the conference.
- ix. Attended the 10th National Headquarter CME of the Indian Association of Pathologists and Microbiologists in IAPM House at Cuttack, Odisha on February 9<sup>th</sup>, 2014.
- x. Presented and co-authored 12 papers at various conferences, one of which won the BEST PAPER AWARD.

### Dr. Pampa ChToi

- i. Moderated a group discussion on “Breast lesions” in the intradepartmental “CME on Breast Pathology” held on August 17<sup>th</sup>, 2013.
- ii. Attended the pre-conference CME, post conference workshop and the 43<sup>rd</sup> Annual Conference of Indian Academy of Cytologists (IAC) CYTOCON 2013, conducted by the department of Pathology, JIPMER, Pondicherry from October 3<sup>rd</sup> to 6<sup>th</sup>, 2013. She presented an oral paper titled “A comparative analysis of conventional and liquid based cervico-vaginal cytology: A study of 140 cases”. She also judged a “POSTER SESSION” in the conference.
- iii. Attended a CME held in the department of Pathology (21<sup>st</sup> Annual conference of AGOICON of association of Gynaecological Oncologist of India held at JIPMER) on November 8<sup>th</sup>, 2013.
- iv. Attended intradepartmental CME on “Neuropathology” on November 14<sup>th</sup>, 2013.
- v. Member of organizing committees (Scientific and Souvenir Committees) of CYTOCON-2013.
- vi. Attended the Annual conference-2013 of the International Academy of Pathology Indian Division (IAP-ID) organised by the Department of Pathology, Government Medical College, Aurangabad and Association of Pathologists and Microbiologists, Aurangabad (Maharashtra) on December 12<sup>th</sup>, 2013.
- vii. Attended APCON-2013, the 62<sup>nd</sup> annual conference of IAPM organized by Department of Pathology, Government Medical College, Aurangabad and Association of Pathologists and Microbiologists, Aurangabad (Maharashtra) from December 13 to 15, 2013. She presented an oral paper entitled “Male breast cancer: A clinicopathological study of 21 cases at a tertiary care hospital In South India” and also chaired a poster session in the conference.
- viii. Participated in the Workshop on curriculum development, for B.Sc., AMS courses, held at JIPMER on January 25<sup>th</sup>, 2014.
- ix. Presented and co-authored 13 papers at various conferences.

### Dr. Rajesh N.G.

#### Conferences Attended and Papers presented

- i. Awarded an ICMR fellowship to attend the “Hands on Workshop on Molecular and Laboratory Medicine” held at Moving Academy of Medicine and Biomedicine, Pune on August 5<sup>th</sup>–10<sup>th</sup>, 2013.
- ii. Member of organizing committees of CYTOCON-2013. He attended and presented “invited case presentations” and an oral paper titled “Clinical utility of fine needle aspiration cytology of liver”.



- Guided and co-authored 12 papers and posters presented by residents. Two papers co-authored and guided by him won Best poster award.
- iii. Attended pre-conference CME, post conference workshop and 43rd Annual Conference of Indian Academy of Cytologists (IAC) CYTOCON 2013, conducted by the Department of Pathology, JIPMER, Puducherry from October 3 to 6, 2013.
  - iv. Attended and presented an invited “Case discussion on fungal infections in non-immunosuppressed patient” at the Annual Conference of Indian Society of Renal and Transplant Pathology and International CME in Renal Pathology held at Jawaharlal Nehru University and hosted by All India Institute of Medical Sciences on September 12–14, 2013.
  - v. Attended as a Resource person and presented an “Invited Case Discussion” at the Tamilnadu and Pondicherry chapter CME in Histopathology on March 01, 2014 held at Christian Medical College, Vellore.
  - vi. Presented and co-authored 13 papers at various conferences, two of which won the BEST POSTER AWARD.

### **Dr. Sajini Elizabeth Jacob**

- i. Attended “CYTOCME-2013: Diagnostic Cytology Update” held at Mahatma Gandhi Medical College and Research Institute (MGMCRI), Puducherry on April 27, 2013.
- ii. Attended a workshop on “Purchase Procedures” held in JIPMER on April 29, 2013.
- iii. Attended a workshop on “Question Paper Setting” on July 7, 13 organized by the Department of Medical Education, JIPMER.
- iv. Attended the workshop on “Setting Multiple Choice Questions” conducted by the Department of Medical Education on August 11, 2013.
- v. Moderated a group discussion on “Breast lesions” in the intradepartmental “CME on Breast Pathology” held on August 17, 2013.
- vi. Attended a CME in Pathology held at Indira Gandhi Medical College and Research Institute (GMC and RI), Puducherry on August 31, 2013 and delivered a talk on “Utility of immunohistochemistry in evaluation of ovarian tumours”.
- vii. She was a scientific committee member in the Hematology CME organized by the Department of Medicine, Pathology and Medical Oncology organized on September 14 and 15, 2013. She also participated in a panel discussion on “Laboratory hematology” and chaired a session on “Interesting cases in Hematology”.
- viii. Co-authored three posters at “International CME on LYMPHOMA UPDATE”, held in the month of September 2013, at Adyar, Chennai.
- ix. Attended CYTOCON-2013, the Annual Conference of Indian Academy of Cytologists (IAC) with the pre-conference CME on “Cytology of Male Genital System” and post-conference workshop on “liquid based cytology (LBC)”, which was held between October 3 and 6, 2013. She presented a paper entitled “Fine needle aspiration cytology of salivary gland tumors with glandular pattern” and co-authored eight papers. A paper co-authored by her won the prestigious “NALINIBAI THAKKAR AWARD”.
- x. Conducted a “Quiz in Neuropathology” for postgraduate students in the CME on “Neuropathology”. Gave a talk on “Special PRBC transfusion protocols on January 11 and 18, 2014 and took part in panel discussion on “Best transfusion practices for patient safety through Transfusion committee” (18.01.14) in the CME on “Rational use of blood components” held by department of transfusion medicine in JIPMER.
- xi. Co-authored one paper and two posters at REPOC conference in JIPMER in March 2014.
- xii. Presented and co-authored a total of 17 papers at various conferences, two of which won AWARDS.

**Dr. B.H. Srinivas**

- i. Received the “post doctoral certificate course (fellowship) in renal transplant pathology”, conducted by the Indian College of Pathologists, at the inaugural function of IAP-ID 2013 at Aurangabad.
- ii. Part of the organizing team and participated in the 43<sup>rd</sup> Annual Conference of the Indian Academy of Cytologists (CYTOCON-2013) held at JIPMER, Puducherry from October 3<sup>rd</sup> to 6<sup>th</sup>, 2013.
- iii. Attended the Annual Conference of Indian Society of Renal and Transplant Pathology and International CME in Renal Pathology held at Jawaharlal Nehru University and hosted by All India Institute of Medical Sciences on September 12<sup>th</sup>–14<sup>th</sup>, 2013.
- iv. He also completed his one month “OBSERVER-SHIP IN NEUROPATHOLOGY” at NIMHANS, Bangalore, from November 11<sup>th</sup> to December 10<sup>th</sup>, 2013.
- v. Participated in Hands-on Workshop on Interface Fluorescence in situ Hybridisation held in CMC, Vellore from February 5<sup>th</sup> to 7<sup>th</sup>, 2014.
- vi. Participated in the 68<sup>th</sup> National Course on Educational Science for Teachers of Health Professionals held at JIPMER, Puducherry from February 20<sup>th</sup> to March 1<sup>th</sup>, 2014.
- vii. Co-authored a paper at “Regional Pediatric Oncology Conference”, JIPMER on March 8 and 9, 2014.

**Dr. Adarsh Wamanrao Barwad**

- i. Joined as Assistant Professor in Department on March 10<sup>th</sup>, 2014.
- ii. Reporting histopathology since March 11<sup>th</sup>, 2014.

**Funded Research Projects**

S. No.	Name of Principal Investigator	Title	Duration	Funding Agency	Total Funds Sanctioned/ Requested (₹)	Collaborating Department	Status
1.	Surendra Kumar Verma	Diagnosis of endometrial intraepithelial neoplasia and the role of PTEN, BCL2 and ki-67 in endometrial lesion	2 years	JIPMER-intra mural	₹1 lakh/2 years	Obstetrics and gynecology	Complete
2	Surendra Kumar Verma	Aortic wall diseases: Study of histomorphology and role of pro inflammatory marker S-100 A12	2 years	JIPMER-intra mural	₹47,500 for 2 years	CTVS	Ongoing
3.	Bhawana A Badhe	P16, CK17 and P63 in distinguishing squamous cervical intra-epithelial lesions from its mimics	2 years	JIPMER-intra mural	₹50,000/2 year	-	Complete
4.	Bhawana Badhe	Study of immunohistochemical profile of p53,ki-67,CK20,CD10 in urothelial neoplasms of urinary bladder	2 years	JIPMER-intra mural	₹50,000 per year for 2 years	Urology	Complete

5.	Debdatta Basu	Nodal peripheral T cell lymphoma: Immunophenotyping and its association with Epstein Barr virus	2 years	JIPMER- intra mural	90,000/-	Medical Oncology	Complete
6.	Siddaraju N.	Fine needle aspiration cytology of spindle cell tumors and their histopathologic correlation	2 years	JIPMER- intra mural	₹50,000 per year for 2 years	-	Ongoing
7.	Rakhee Kar	Screening for paroxysmal nocturnal hemoglobinuria in the local patient population using gel card technology	2 years	JIPMER- intra mural	1,00,000	Medicine	Ongoing
8.	Pampa Ch Toi	Evaluation of estrogen and progesterone receptors and Her 2 neu expression in fine needle aspirates of patients with breast carcinoma.	2 years	JIPMER- intra mural	₹50,000/year	Surgery	Ongoing
9.	Pampa Ch Toi	Immunophenotypic profile of diffuse large B cell lymphoma with special reference to presence of c-myc, EBV and CD5	2 years	JIPMER- intra mural	25,000/yrs	-	Ongoing
10.	Rajesh N.G.	Histopathologic and immunophenotypic analysis of basal like breast carcinoma	2 years	JIPMER- intra mural	₹80,000/- for 2yrs	Medical Oncology	Complete
11.	Rajesh N.G.	Clinicopathological features and FLT3 internal tandem duplication mutation in acute myeloid leukemia	2 years	JIPMER- intra mural	₹75,000/-per year	Medical oncology, pharmacology	Ongoing
12.	Sajini Elizabeth Jacob	Histomorphological changes and angiogenic factors in placenta of pre-eclamptic patients	2 years	JIPMER- intra mural	₹50,000 per year for 2 years	OBG	Ongoing
13.	Siddaraju N.	Fine needle aspiration cytology of hematolymphoid malignancies in correlation to histopathologic and haematologic findings	2 years	JIPMER- intra mural	₹70,000 for 1 year only	-	Ongoing

(Continued)

## Pathology

S. No.	Name of Principal Investigator	Title	Duration	Funding Agency	Total Funds Sanctioned/ Requested (₹)	Collaborating Department	Status
14.	Bhawana Ashok Badhe	Morphological Profile of large intestinal ganglion cells in perinatal autopsies and Hirschsprung disease with special reference to the role of Calretinin	2 years	JIPMER- intra mural	50,000 for 1 year only	Pediatric Surgery	Ongoing
15.	Surendra Kumar Verma	Assessment of diagnostic accuracy of fine needle aspiration cytology in ovarian neoplasms.	2 years	JIPMER- intra mural	₹70,000	-	Ongoing
16.	Siddaraju N.	A comparison of liquid based cytological preparation with conventional smearing technique of screening time, cytomorphological and immunocytochemical interpretation of respiratory samples	1 year	JIPMER- intra mural	₹34,974.00	-	Ongoing
17.	Rajesh N.G.	Detection of HPV 16 and 18 by polymerase chain reaction and the study of its association with squamous cell abnormalities on cervical cytology	1 year	JIPMER intramural	₹50,000.00	-	Ongoing
18.	Suirendra Kumar Verma	A comparison between liquid based cytology (LBC) and cytospin cytopreparatory techniques in urine cytology	1 year	JIPMER- intra mural	₹24995.00	-	Ongoing
19	Pampa Ch Toi	Role of brush biopsy technique in diagnosis of premalignant lesions of oral cavity in high risk population	1 year	JIPMER intra mural	₹25,000	Dentistry	ongoing
20.	Rakhee Kar	“Role of p 57KIP2 immunohistochemistry as an adjunct to morphology in differentiating between a complete mole, partial mole and non-molar or hydropicabortus”	-	ICMR-STs Research Project	₹10,000/-	-	complete

21.	Pampa Ch Toi	Comparison of conventional and liquid based cervico-vaginal cytology	-	ICMR-STs Research Project	₹10,000/-		Complete
22.	Surendra Kumar Verma	Expression of leptins and its receptors in brain neoplasms	-	Intramural	₹3 lakhs total 2 lakhs in first year and 1 lakh in second year	Neurosurgery	Ongoing
23.	Rajesh N.G.	NPM1 mutation and its role in risk stratification in patients with acute myeloid leukemia	-	Intramural	₹3 lakhs total 2 lakhs in first year and 1 lakh in second year	Medical oncology pharmacology	Ongoing

### Publications [57]

1. Agarwal A, Gunaseelan K, Kar R, and Reddy KS. Widespread adenocarcinomatous cutaneous metastases from unknown primary—challenges in treatment. *JIPMER J. Cancer*. 2014; 3: 54–56, [IF-NA].
2. Angeline Hanifah M, Balachandran G, and Rajesh NG. Subcutaneous mucorzygomycosis with potential life-threatening visceral complication. *Ind. J. Med. Microbiol.* 2013; 31: 182–4, [IF-2.297].
3. Basu D. Non Hodgkin Lymphoma—approach to diagnosis and classification. *JIPMER J. Cancer*. 2014; 3: 5–16, (Review) [IF-NA].
4. Biswal N, Pournima F, Mary TS, and Jacob S. Isolated hemosiderosis of liver in an infant with hypertrophic cardiomyopathy. *Int. J. Clin. Exp. Physiol.* 2014; 1: 79–81, [IF-NA].
5. Chandrashekar L, Rajappa M, Sundar I, Munisamy M, Ananthanarayanan PH, Thappa DM, and Toi PCH. Platelet activation in chronic urticaria and its correlation with disease severity. *Platelet*. 2014; 25: 162–5, [IF-1.847].
6. Chandrashekar L, Rajappa M, Sundar I, Munisamy M, Ananthanarayanan PH, Thappa DM, and Toi PCH. Vascular endothelial growth factor levels in patients with chronic urticaria. *Clin. Chim. Acta*. 2013; 422: 44–6, [IF-2.535].
7. Das S, Basu D, and Manigandan G. Necrotizing fasciitis—A rare fatal outcome of road traffic accidents. *Egypt. J. Forensic Sci.* 2013; 3: 92–95, [IF-NA].
8. Dharmalingam P, Roopesh Kumar VR, and Verma SK. Vascular endothelial growth factor expression and angiogenesis in various grades and subtypes of meningioma. *Ind. J. Pathol. Microbiol.* 2013; 56: 349–54, [IF-0.570].
9. Gangothri S, Gunaseelan K, Reddy KS, and Toi PC. Langerhans cell histiocytosis in adult. *Ind. J. Oral. Sci.* 2013; 4: 90–4, [IF-NA].
10. Ghosh B, Dorairajan LN, Kumar S, and Basu D. Penile nodule with inguinal lymphadenopathy: Prostatic adenocarcinoma masquerading as penile cancer. *Ind. J. Urol.* 2013; 29: 56–8, [IF-0.0].
11. Gopal R, Elamurugan TP, Kate V, Jagdish S, and Basu D. Standard triple versus levofloxacin based regimen for eradication of *Helicobacter pylori*. *World J. Gastrointest. Pharmacol. Ther.* 2013; 4: 23–7, [IF-NA].
12. Govindarajan KK, Rao S, and Kar R. Bilateral ovarian tumour in a young girl. *Afr. J. Paediatr. Surg.* 2013; 10: 279–81, [IF-0.572].
13. Harikrishnan KN, Krishnamurthy S, Rajesh NG, and Mahadevan S. Renal involvement in epidermolysis bullosa simplex: An unusual presentation. *Ind. J. Pediatr.* 2014; 81: 102–3, [IF-0.715].
14. Jinkala SR, Basu D, Mathath D, Dubashi B, and Bhaumik A. A rare case of congenital ewing sarcoma/PNET of the scapula. *J. Pediatr. Hematol. Oncol.* March 2014; 36(2): e134–5, doi: 10.1097/MPH.0000000000000004. [IF-0.973]

15. Jinkala SR, Ganesh RN, Badhe BA, and Das S, D K. Primary Merkel cell neuroendocrine carcinoma of head and neck: Uncommon manifestations. *Pathology*. August 2013; 45(5): 510–3, doi: 10.1097/PAT.0b013e32836332c4. No abstract available, [IF-2.657].
16. Jinkala SR, Jacob SE, Neelaiah S, and Badhe BA. Pre-operative cytodiagnosis of an adult granulosa cell tumour: Report of a case with its differential diagnosis. *Cytopathology*. 2014; 25: 63–5, [IF-1.714].
17. Jinkala SR, Rajesh NG, and Ramkumar A. Basal like carcinoma of breast in patient with neurofibromatosis I: An association or co-existence? *Ind. J. Pathol. Microbiol.* 2013; 56: 166–8, [IF-0.676].
18. Karthikeyan VS, Manikandan R, Jacob SE, and Murugan PP. Metastatic squamous cell carcinoma urinary bladder coexisting with tuberculosis in pelvic lymph nodes. *BMJ Case Rep*. December 2, 2013; 2013, pii: bcr2013202173. doi: 10.1136/bcr-2013-202173, [IF-NA].
19. Karthikeyan VS, Sistla SC, Srinivasan R, Basu D, Panicker LC, Ali SM, and Rajkumar N. Metachronous multiple primary malignant neoplasms of the stomach and the breast: Report of two cases with review of literature. *Int. Surg.* 2014; 99: 52–5, [IF-0.305].
20. Krishnamurthy S, Mahadevan S, Mandal J, and Basu D. Leptospirosis in association with hemophagocytic syndrome: A rare presentation. *Ind. J. Pediatr.* 2013; 80: 524–5, [IF-0.715].
21. Krishnamurthy S, Mahadevan S, Mandal J, and Basu D. Leptospirosis in association with hemophagocytic syndrome: A rare presentation. *Ind. J. Pediatr.* 2013; 80: 524–5, [I F: 4.358].
22. Krishnan B, Basu D, and Daniel JMA. Discrete swelling of the upper lip: A diagnostic and clinical step ladder. *J. Maxillofac. Oral. Surg.* DOI 10.1007/s12663-013-0531-6 online published 5 may 2013, [IF-NA].
23. Lakshmi CP, Goel A, and Basu D. Cholestatic presentation of yellow phosphorus poisoning. *J. Pharmacol. Pharmacother.* 2014; 5: 67–9, [IF-NA].
24. Madhugiri VS, et al. Opportunistic Fonsecaepedrosoi brain abscess in a patient with non-cirrhotic portal fibrosis-induced hypersplenism—A novel association. *Br. J. Neurosurg.* 2013; 27: 690–3, [IF-429].
25. Mandal S, Siddaraju N, and Rekha JS. Cytodiagnosis of malignant transformation in a solitary osteochondroma: Report of a rare case with a literature review. *Cytopathology*. 2013; 24: 399–401, [IF-1.714].
26. Manivannan P, Prasaad PR, Kar R, and Basu D. Down syndrome with different hematological manifestations: A short series of 3 cases with review of literature. *Ind. J. Hematol. Blood Transfus.* 2013; 29: 31–4, [IF-0.25].
27. Mishra P, Jacob SE, Basu D, Panigrahi MK, and Govindaraj V. “Bilateral spontaneous pneumothorax in chronic silicosis: A case report.” *Case Rep. Pathol.* 2014, Article ID 561861, 2014; 3. doi:10.1155/2014/561861 [IF-NA]
28. Mohanan S, Chandrashekar L, Semple RK, Thappa DM, Rajesh NG, Negi VS, and Gulati R.H. Syndrome with a novel homozygous R134C mutation in SLC29A3 gene. *Int. J. Dermatol.* 2013; 52: 820–3, [IF-1.342].
29. Mohapatra DP, Badhe BA, Chittoria RK, and Vijayaraghavan Ashokan A. Rare tumours of the hard palate. *Ind. J. Plast. Surg.* 2013; 46: 150–2, [IF-NA].
30. Mukta V, Susmitha C, Kar R, Basu D, and Das A.K. Multicentric, hyaline vascular variant of Castleman’s syndrome. *Ind. J. Hematol. Blood Transfus.* Online early. July 13, 2013, [IF-0.250].
31. Prabhavati J, Basu D, and Dutta TK. Angiogenesis and proliferation index in patients with acute leukemia: A prospective study. *Bone Marrow Res.* Article ID 634874, 2014; 7, http://dx.doi.org/10.1155/2014/634874, [IF-NA].
32. Puthenpurackal S.P. Priyamvada, Jayasurya R, Bheemanathi H. Srinivas BH and Parameswaran S. Acute interstitial nephritis following viper bite: A rare association. *Clin. Kidney J.* 2014; 0: 1–2, [IF-NA].
33. Rajappa M, Chandrashekar L, Sundar I, Munisamy M, Ananthanarayanan PH, Thappa DM, and Toi PCH. Platelet oxidative stress and systemic inflammation in chronic spontaneous urticaria. *Clin. Chem. Lab Med.* September 2013; 51(9): 1789–94, doi: 10.1515/cclm-2012-0897, [IF-3.009].

34. Ramakrishnaiah VP, Babu R, Pai D, and Verma SK. Role of imprint/exfoliative cytology in ulcerated skin neoplasms. *Ind. J. Surg. Oncol.* 2013; 4: 385–9, [IF-2.657].
35. Ramasamy C, Dubashi B, Rekha JS, Basu D, Jain A, and Dutta TK. Hairy cell leukemia masquerading as infective endocarditis. *Ind. J. Hematol. Blood Transfus.* 2013; 29: 84–6, [IF-0.25].
36. Ramasamy C, Dubashi B, SreeRekha J, Basu D, Jain A, and Dutta TK. Atypical mycobacterial infection in hairy cell leukemia treated with cladribine. *Ind. J. Hematol. Blood Transfus.* 2014; 30: 59–61, [IF-0.25].
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## PATIENT CARE SERVICES

### Laboratory Services

#### Histopathology

In 2013–2014, 19,126 biopsies were examined. Routine Hematoxylin-eosin and special histochemical stains were performed. A total of 13,996 immunohistochemistry slides were stained and analyzed. Immunofluorescence (IF) laboratory services are available IF was done on 700 samples; 120 specimens were subjected to frozen section.

#### Cytopathology

Routinely May-Grünwald-Giemsa, Papanicolaou and relevant special stains are performed and immunocytochemistry (ICC) is standardized. The cytology laboratory is enrolled in the Quality Assurance Scheme of Indian Academy of Cytology (IAC). During the year 2013–2014 a total of 18,848 samples were investigated. These included 5,677 fine needle aspirates, 9,986 Pap smears and 3,165 non-gynecologic (fluid) samples. Cytologic investigations also included squash cytology (for CNS tumors) and imprint cytology.

#### Hematopathology

The lab caters to routine hemograms, BM aspiration and biopsy, coagulation and hemolytic anemia workup. The external quality assurance scheme is followed for the coagulation with CMC, Vellore and blood counts with AIIMS, New Delhi. The lab provides a 24-h emergency in-patient service. During 2013–2014, 50,804 diagnostic tests. It included 32,282 haemograms as routine investigations and 11,108 haemograms as emergency investigations. The special investigations included para-coagulation test—670; reticulocyte counts—4,248; haemolyticanaemia studies—130; coagulation studies—333; bone marrow studies—955; cytochemistry—99. The malaria positive cases diagnosed were 99 in number.

### Central Lab and Superspecialty Lab (Clinical Pathology and Hematology Lab)

The OPD laboratory under the control of department of pathology dealt with 66,099 samples and performed 1,22,027 (blood = 97,626; urine = 21,857; stool = 1,956 and Semen = 586).

Superspecialty block hematopathology laboratory dealt with 1,10,071 samples which included 79,833 blood samples, 29,860 urine specimens and 378 body fluid cell counts.



## Autopsy

- i. Autopsies were performed during the period from April 2013–March 2014.

## AWARDS AND ACHIEVEMENTS

- i. Dr. Debdatta Basu, professor, was awarded the BD Baruah Oration for the year 2013—he spoke on Non-Hodgkin lymphoma—approach and mimics at NERCON-2013—Annual Conference of North East Chapter of IAPM held at NEIGRIHMS, Shillong from September 27 to 29, 2013.
- ii. Dr. Srinivas B.H. Assistant Professor, was awarded the “Dr. DN Das Award” (year 2012–2013) for his original paper titled “Morphological Changes in the Bone Marrow in Patients of Chronic Myeloid Leukemia (CML) Treated with ImatinibMesylate”, published in the Indian Journal of Hematology and Blood Transfusion (IJHBT).
- iii. Under the guidance of Pathology faculty, the residents of the department of Pathology won 5 best poster and one best paper (NALINIBAI THAKKAR AWARD) awards at various National and Regional conferences. Two of the postgraduate students (Dr. Chithra C and Dr. Bidish Kumar Patel) won the first and second place in the ISHBT Quiz 2013 at college level round held in JIPMER on May 18, 2013. They represented JIPMER in the state level round held in JIPMER on July 13, 2013. The residents who secured awards are Drs. Chitra, Rajalaxmi, Suganya, Biswajit Dey and Jhansi Rani.

## ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS

### Dr. Bhawana Badhe

- i. Special interest in Breast and Oncopathology.
- ii. Examiner of National Board Diplomat (DNB) examination in Pathology at JIPMER.
- iii. Internal Examiner of MBBS, MD and B.Sc. MLT examinations.
- iv. External examiner for MD (Pathology) examination in Maharashtra.
- v. Guiding several research students, both Undergraduate and Postgraduate in intra and extra mural projects.
- vi. Involved in curriculum development and implementation of DM Hematology course in collaboration with Department of Medicine.
- vii. Chaired sessions, was a panellist and did presentations at National Conferences and CMEs.
- viii. Guide for two MD and co-guide for four MD and one PhD thesis
- ix. Member of institutional Biosafety committee of JIPMER
- x. Organised four intradepartmental CMEs.

### Dr. Surendra Kumar Verma

- i. Selected as General Secretary of ISAR—Indian Society of Atherosclerosis Research.
- ii. Selected as the President of IAPM (Pondicherry and Tamilnadu chapter).
- iii. Selected as the Vice president of IABMS—Indian Academy of Biomedical Sciences.
- iv. Officer in charge of condemnation of hospital items.
- v. Member of Departmental Promotional Committee.
- vi. In charge of the Cytopathology.
- vii. Officer In-charge of Hindi cell of JIPMER.
- viii. MSc MLT Examiner.
- ix. MCI Inspector for MBBS and MD Pathology Courses.
- x. Organized CYTOCON 2013.

## Pathology

- xi. Conducted monthly Clinico-Pathology Conference in the Institute.
- xii. Guide for two MD and co guide for two MD students.
- xiii. Guide for one PhD student (in Pathology).
- xvi. Guide for one MSc (MLT) Cytopathology student.

**Dr. N. Siddaraju**

- i. Field of Interest is Cytopathology.
- ii. In-charge of MSc MLT (cytopathology) course.
- iii. Officer-in-charge of pathology store.
- iv. Pathology class in-charge for MRO/MRT courses.
- v. Overall in-charge of outpatient department (OPD) laboratory and in-charge of cytology division.
- vi. Participation in undergraduate and postgraduate teaching.
- vii. Nodal officer from the department of pathology for JIPMER website.
- viii. Officer-in-charge for condemnation of unserviceable equipments in the departments of surgery, orthopedics, ophthalmology and dentistry.
- ix. Member of the examination committee, JIPMER.
- x. Member of the fact finding committee, JIPMER.
- xi. Guide for three MD students, two MSc MLT (cytopathology) students and one ICMR project, co-guide for four MD students and co-investigator in one of the intramural research projects.
- xii. Institute representative for “on-line based distributed objective system entrance examination for MD/MS postgraduate course session 2014–2015” at Chennai centre on February 23, 2014.
- xiii. Internal examiner for MSc MLT.
- xiv. An executive member of the Indian Academy of Cytologists (IAC).
- xv. A member of editorial board of “Journal of Cytology”.
- xvi. Reviewer for various journals: Indian Journal of Medical Research; Diagnostic Cytopathology; Journal of Cancer Research and Therapeutics; Indian journal of cancer; World Journal Of Surgical Oncology; Breast Disease; Head and Neck Pathology; Pathology and Laboratory Medicine International; International Journal Of Infectious Diseases; Southern Medical Journal; Journal of Cytology (JOC); Melanoma Research and Indian Journal Dental Research.

**Dr. Debdatta Basu**

- i. In-charge of Hematopathology Division, with special interest in Bone Marrow Biopsy and Lymphoma.
- ii. In-charge of undergraduate (MBBS) classes.
- iii. Nominated as expert for equipment selection for pathology for the six AIIMS like institute under PMSSY.
- iv. Internal examiner for MD.
- v. Faculty of the Medical Education Cell (NTTC) of JIPMER since 2005. Takes the session on TL media, lectures, problem learner. Helped in the organization of the two annual workshops conducted in JIPMER. Core faculty member for MEDUCON.
- vi. Deputy warden of postgraduate hostel in JIPMER.
- vii. Member of the CRAFT committee of JIPMER.
- viii. Member of organizing committee of various National Conferences and Convocation Day held in JIPMER.
- ix. Editorial Board of Indian Journal of Cancer, Indian Journal of Pathologists and Microbiologists, Biomedicine, Indian Journal of Surgery, Melanoma Research. Advisor Histopathology of International Journal of Advanced Medical Research.
- x. Actively participated in all intra- and inter-departmental activities, especially oncopathology CPCs and hematology grand rounds.

- xi. Involved in curriculum development and implementation of DM Hematology course in collaboration with Department of Medicine.
- xii. Member of the curriculum development committee for upgradation of laboratory attenders.
- xiii. Guide for two MD students, co guide for four students.

### **Dr. Rakhee Kar**

- i. Member of the JIPMER quality council and actively involved in the group proceedings.
- ii. Routine reporting of hematology and histopathology.
- iii. Active participation in interdepartmental clinicopathological conferences.
- iv. Involved in undergraduate (MBBS and BSc MLT, BSc Nursing), post-graduate (MD Pathology) and DM (Clinical Hematology) teaching activities and co-guide in 10 MD/DM theses.
- v. Field of interest is hematopathology with special interest in coagulation.
- vi. Reviewer for clinical and applied thrombosis and hemostasis (CATH) and The International Journal of Neuroscience (GNES) and Medical Journal of Armed Forces of India (MJAFI), International Journal of Medicine and Public Health (IJMedPH), Indian J Hematol Blood Transfus (IJHBT), Project evaluator for DBT.
- vii. During the year 2013–2014 involved in preparing specifications and procurement process of new equipments especially flow cytometer and Hb HPLC for the department.

### **Dr. Pampa Ch Toi**

- i. In-charge of BSc MLT classes.
- ii. Internal examiner for BSc MLT (JIPMER-2012).
- iii. Involved in undergraduate and postgraduate teaching.
- iv. Involved in independent reporting of cytology and histopathology divisions.
- v. Involved in interdepartmental clinicopathological conferences.
- vi. Organising committee member for 3rd Convocation Day in JIPMER (2013).
- vii. Member of the workshop articles purchase committee of JIPMER.
- viii. Guide for 1 MD, 1 MSc MLT, 2 ICMR projects and co guide for 2 MD students.
- ix. Handling one funded research project titled “Evaluation of estrogen and progesterone receptors and Her 2 neu expression in fine needle aspirates of patients with breast carcinoma” as the principal investigator.

### **Dr. Rajesh N.G.**

- i. Actively participated in undergraduate and post graduate teaching programs in the department.
- ii. In-charge for BSc Allied Medical Sciences.
- iii. In-charge of Renal and Transplant Pathology.
- iv. Routine reporting of Histopathology and Cytopathology.
- v. Actively participated in interdepartmental clinico-pathology meetings.
- vi. Principal investigator for two intramural projects.
- vii. Co-investigator for three projects.
- viii. Guide for two dissertations and co-guide for nine dissertations.
- ix. Editorial Board Member—Journal of Parathyroid Diseases and Journal of Biological Sciences and Technology.
- x. National Organizations: Secretary of Indian Society of Renal and Transplant Pathology; Secretary of Indian Association of Pathologists and Microbiologists (Tamilnadu and Pondicherry Chapter); Life member of Indian Journal of Pathology and Microbiology; Executive Member of JIPMER Scientific Society.

## Pathology

- xi. JIPMER Institutional Committees: (i) Associate Staff Advisor, JIPMER (2014–2015) (ii) Member of Institute Stem cell Research Committee, JIPMER, (III) Core committee Member of Hospital Information System, JIPMER (iv) Member of JIPMER Undergraduate Research Monitoring committee.
- xii. Non-JIPMER Organizational Committees: Doctoral Committee Member for PhD program in Department of Pharmacology, JIPMER and Renal Research Laboratory at School of Biological Sciences, Vellore Institute of Technology, Vellore.
- xiii. Reviewer for Journals: (i) Gastroenterology Research and Practice, (ii) Indian Journal of Pathology and Microbiology (iii) International Journal of Medicine and Public Health (iv) Diagnostic Cytopathology.
- xiv. Fellowships: Selected for International Society of Nephrology Fellowship on Clinical Nephrology and Nephro-Pathology in the year 2013. Completed the course successfully and was awarded the Fellowship.

### Dr. Sajini Elizabeth Jacob

- i. Actively involved in UG/PG teaching.
- ii. In charge of UG teaching programme.
- iii. Involved in intra- and inter-departmental activities, especially oncopathology CPCs and hematology grand rounds.
- iv. Independently reported in “Hematology”, “Cytology” and, “Histopathology” divisions.
- v. Co guide for five MD, one DM students and guide for one MSc MLT Cytopathology student.

### Dr. BH. Srinivas

- i. Actively participated in the undergraduate and post graduate teaching activities.
- ii. In-charge of BSc (Nursing) classes.
- iii. Publications: Six publications and three papers accepted.
- iv. Co-investigator for two research projects.
- v. Co guide for two dissertations {MD (Anatomy) and MSc (MLT) Cytopathology}.
- vi. National Organizations: Council member of Indian Society of Renal and Transplant Pathology.
- vii. JIPMER Institutional Committees: Member of the “JIPMER Crowd Control Team”.
- viii. Fellowships: Received the Post-Doctoral Certificate Course in Renal and Transplant Pathology, Conducted by the Indian College of Pathologists, at the inaugural function of IAP-ID 2013 at Aurangabad.
- ix. Independently reported in Surgical Pathology and Hematology.
- x. Involved in intra- and inter-departmental activities such as Nephropathology and neuropathology meets.

### Dr. Adarsh Wamanrao Barwad

- i. Joined the department of Pathology as Assistant Professor on March 10<sup>th</sup>, 2014.
- ii. Special areas of interest in Oncopathology, Renal Pathology Cytopathology and Molecular Pathology.
- iii. Involved in independent reporting of Surgical Pathology.
- iv. Actively involved in intra and inter departmental activities.

## SIGNIFICANT EVENTS IN THE DEPARTMENT

- i. The department started the concept of intra departmental CME after Dr. Bhawana Badhe took over the department as HOD. Thus, four such CMEs were held on (1) Breast Pathology, (2) Gynecologic Pathology (3) Neuropathology and (4) Thyroid pathology.

In the CME on “Gynaecologic Pathology”, Dr. David Millan, Consultant Pathologist, Glasgow Royal Infirmary, was the Visiting professor to the department and he delivered guest lectures on (1) Mucinous tumors of ovary and (2) Clear cell carcinoma of ovary.

In the CME on Neuropathology, Dr. Pratibha Kumar, Professor and HOD of Pathology, SRMC, Chennai spoke on “Approach to CNS tumors”. Faculty, Residents took active part in it by moderating and presenting slide seminars and also by delivering lecture on important topics.

- ii. The department hosted the 43rd Annual Conference of Indian Academy of Cytologists (IAC).
- iii. Fluorescent In Situ Hybridization (FISH) workstation and High performance liquid chromatography (HPLC) were sanctioned to the department.
- iv. Cytology Laboratory was shifted to the first floor with provision for FNAC room in the ground floor.

# Pharmacology

## FACULTY LIST

- |                              |   |                                                                                              |
|------------------------------|---|----------------------------------------------------------------------------------------------|
| 1. SENIOR PROFESSOR AND HEAD | : | Pradhan S.C.                                                                                 |
| 2. PROFESSORS                | : | i. Shewade D.G.<br>ii. Gitanjali B.<br>iii. Raveendran R.<br>iv. Steven A. Dkhar             |
| 3. ASSISTANT PROFESSORS      | : | i. Jayanthi M.<br>ii. Manikandan S.<br>iii. Sandhiya S.<br>iv. Surendiran A.<br>v. Girish C. |
| 4. LECTURER                  | : | Kesavan R.                                                                                   |
| 5. SENIOR RESEARCH OFFICER   | : | Reddy P.M.K.                                                                                 |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Pharmacology was started in 1958 under Dr. Emilie Savini, a French Professor. Since then there has been a gradual increase in the research activities apart from the regular teaching activities. Dr. S.C. Pradhan became the head of the department in July 2013. The focus of research is now at the molecular level in the area of pharmacogenomics besides clinical trials, development of hepatoprotective herbal drugs, pharmacokinetic and toxicology studies. A state of the art pharmacogenomics lab was established by the technical collaboration with INSERM, France. The pharmacogenomics lab was declared as a centre of excellence and upgraded to ICMR Centre for Advance Research in Pharmacogenomics with liberal financial support. Since 2004, an ICMR sponsored National workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics is conducted every year to train researcher in the field of pharmacogenomics. The cell culture laboratory started functioning from 2008 onwards. A Drug Information Centre was established in 2007. The Adverse Drug Reaction Monitoring Centre, under the Pharmacovigilance Programme of India (PvPI), started functioning in the department from November 2010. Apart from these, therapeutic drug monitoring and sleep studies are done as hospital services. The department of Pharmacology has recently been designated as a WHO Collaborating Centre for Training and Research in Essential Medicines and Rational Use of Medicines.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

MBBS

BSc Nursing  
 BSc MLT  
 BSc Perfusion Technology  
 BSc Dialysis Technology  
 BSc Operation Theatre Technology  
 BSc Neurotechnology

### **Postgraduate Course**

MD Pharmacology course

### **Fellowship Programme**

The department is recognised by the World Health Organization for its Fellowship programme and candidates from Myanmar, Nigeria and Korea have been trained as Fellows of WHO.

### **Research Course**

PhD, programme

### **Other Courses**

The department admits students of M. Tech (Biotechnology) for their project work to fulfil their dissertation requirements. The department also trains students of the Emergency Medical Technician Course (EMTC) and Medical Records Officer (MRO) Course.

## **CONFERENCES AND CMES ORGANISED BY THE DEPARTMENT**

The Tenth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics was held during August 26–31, 2013. Dr. D.G. Shewade was the Organizing Secretary. The programme was partly sponsored by ICMR. The department was actively involved to train 28 delegates who came from various parts of the country. Dr. S.C. Pradhan, HoD Pharmacology, gave the welcome address and Dr. T.S. Ravikumar, Director, JIPMER, inaugurated the workshop.

## **CONFERENCES AND CMES ATTENDED BY THE FACULTY**

### ***Dr. S.C. Pradhan***

- i. Delivered a guest lecture at Sri Venkateswaran Medical College, Puducherry on August 23, 2013 on Rational Use of Drugs In their “Quest-O-Pharm” Programme.
- ii. Organized the Tenth National Workshop on Basic Techniques in Molecular Biology and Bioinformatics in Pharmacogenomics which was held between August 26 & 31, 2013.

### ***Dr. D. G. Shewade***

- i. Delivered a talk on “Limited tender: What to do and what not to do” in Workshop on Purchase Procedures for JIPMER faculty held on the March 28, 2013.
- ii. Organizing Secretary of the Tenth National Workshop on Basic Techniques in Molecular Biology and Informatics in Pharmacogenomics which was held between August 26 & 31, 2013.
- iii. Participated in the task based workshop on curriculum development for BSc MLT and BSc AMS courses on the January 25, 2014 in JIPMER.
- iv. Delivered a talk on “Pharmacogenomics” in the “National Screening on Functional Genomics and Workshop on Microarray Data Analysis” at Dr. MGR University, Chennai conducted between February 26 and 28, 2014.

**Dr. Gitanjali B.**

- i. Attended the National Conference on Drug Discovery and Cellular Dynamics held in Pondicherry University on March 21–22, 2013 organized by the Department of Biochemistry and Molecular Biology in association with DBT-Interdisciplinary Programme in Life Sciences and gave an invited guest lecture on “Clinical trials—the last hurdle in the process of drug discovery” on March 22, 2013.
- ii. Delivered a guest lecture on “Essential medicines and their rational use” at the Continuing Pharmacists Education Programme held at Indira Gandhi Government General Hospital and Postgraduate Institute, Puducherry on March 24, 2013.
- iii. Resource person for Workshop on Bioethics, held on April 3, 2013 at JIPMER.
- iv. Conducted a Workshop on Purchase Procedures for Store-keepers on April 6, 2013, at JIPMER.
- v. Attended the “Workshop on Bioethics” held in Pondicherry Institute of Medical Sciences, Kalapet on April 19, 2013, as a resource person and conducted sessions on “Post-trial benefits, compensation for participation, inducements and research related injuries” and “Safety reporting and monitoring”.
- vi. Conducted a Workshop on Purchase procedures for faculty on April 28, 2013 at JIPMER.
- vii. Delivered a guest lecture on “General Ethical Issues in Human Studies” during a workshop on “Ethics in Research” organized by the Dept. of Community Medicine, Sri Manakula Vinayagar Medical College and Hospital, Kalitheerthalkuppam on May 23, 2013.
- viii. Conducted a workshop on “Scientific Writing” at the Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram, Kerala, on June 12–13, 2013. The workshop was a hands-on training programme for the faculty and postgraduates of SCTIMST.
- ix. Took Sessions on Publication Ethics during the state level conference on Research Methodology at Sri Devaraj Urs Medical College, Kolar on August 13 and 14, 2013.
- x. Conducted a workshop on how to read a scientific paper in Chettinadu Hospitals and Research Institute, Kelampakkam on September 7, 2013.
- xi. Attended the on “Informal Consultation on Chemoprophylaxis for leprosy” at National Institute of Epidemiology at Ayapakkam, Chennai from October 8 to 10, 2013, as a temporary advisor to the World Health Organization.
- xii. Participated in the National Consultation on Ethics guidelines organized by ICMR—WHO from October 28 to 29, 2013 at New Delhi.
- xiii. Attended the 4th Annual Conference of Puducherry Chapter of Indian Pharmacological Society and participated in the panel discussion on postgraduate training and evaluation on November 15, 2013 at Indira Gandhi Medical College and Research Institute, Puducherry.
- xiv. Participated in Updating the WHO database on Medicines use in developing and transitional countries from November 27, to December 4, 2013 at South-East Asia Regional Office, New Delhi.
- xv. Participated in the Conclave on Community and Family Medicine with six new AIIMS, organized by Ministry of Health, Government of India at National Institute of Family Welfare, New Delhi from December 18 to 19, 2013.
- xvi. Attended the Indian Society for Rational Pharmacotherapeutics Conference (ISRPTCON) 2013 from January 30 to February 1, 2014 at Dayanand Medical College and Hospital, Ludhiana, Punjab.
- xvii. Resource person for the Workshop on Scientific Writing at Government Medical College, Amritsar conducted on February 2, 2014.
- xviii. Resource person for the Workshop on Ethics and Professionalism at Government Medical College, Amritsar on February 3, 2014.
- xix. Delivered a guest lecture at the 47th Annual Conference of the Tamil Nadu Orthopaedic Association (TNOACON 2014) at Chettinad Health City, Chennai, on February 9, 2014.



**Dr. R. Raveendran**

- i. Delivered a lecture on “Ethics in clinical research and publication” in National Workshop on “Drugs and Pharmaceuticals—Research and Development” organized by the Pondicherry University on April 13, 2013.
- ii. Delivered a lecture on Animal Ethics in a workshop on “Ethics in Research” in Sri Manakula Vinayagar Medical College and Hospital, Puducherry on May 23, 2013.
- iii. Conducted a workshop on “Scientific Writing” at the Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram, Kerala, on June 12–13, 2013. The workshop was a hands-on training programme for the faculty and postgraduates of SCTIMST.
- iv. Took Sessions on Publication Ethics during the State level conference on Research Methodology at Sri Devaraj Urs Medical College, Kolar on August 13–14, 2013.
- v. Delivered a guest lecture on “Dissertation Writing” in Chettinadu Hospitals and Research Inst. Kelampakkam, TN on August 17, 2013.
- vi. Attended the 4th Annual Conference of Puducherry Chapter of Indian Pharmacological Society and conducted the panel discussion on postgraduate training and evaluation on November 15, 2013 at Indira Gandhi Medical College, Vazhudavur Road, Puducherry.
- vi. Conducted a workshop on how to read a scientific paper in Chettinadu Hospitals and Research Institute, Kelampakkam on September 7, 2013.
- vii. Presented a paper in the 46th Annual Conference of the Indian Pharmacological Society at NIMHANS Convention Center on December 16–18, 2013.
- viii. Delivered a lecture on ethical issues in research in Seminar on Operational Research conducted in JIPMER on January 24, 2014.
- ix. Conducted a workshop in the Indian Society for Rational Pharmacotherapeutics Conference (ISRPTCON) 2013 from January 30 to February 1, 2014 at Dayanand Medical College and Hospital, Ludhiana, Punjab.
- x. Resource person for the Workshop on Scientific Writing at Government Medical College, Amritsar conducted on February 2, 2014.
- xi. Resource person for the Workshop on Ethics and Professionalism at Government Medical College, Amritsar on February 3, 2014.
- xii. Delivered a guest lecture on “Ethical considerations, data collection and analysis” at the 47th Annual Conference of the Tamil Nadu Orthopaedic Association (TNOACON 2014) at Chettinad Health City, Kelambakkam, Chennai, on February 9, 2014.
- xiii. Invited as an expert to conduct a CME on “Alternatives to animal experimentation in medical science education” at JN Medical College, AMU, Aligarh on February 24–25, 2014.
- xiv. Delivered a lecture on Biostatistics in FOGSI-JOGI PICSEP Workshop conducted by the Trichy OG Society, Trichy on March 16, 2014.

**Dr. Steven A. Dkhar**

- i. Attended the Bioethics Workshop for Ethics Committee members organised by the department of Research, JIPMER on April 3, 2013.
- ii. Was the Finance Secretary in the Tenth National Workshop on Basic Techniques in Molecular Biology and Informatics in Pharmacogenomics workshop from August 26 to 31 2013 and delivered the vote of thanks in the Valedictory function of the same.
- iii. Attended and participated in the Task based workshop on Curriculum development for BSc MLT and BSc AMS courses on the January 25, 2014 in JIPMER.

**Dr. M. Jayanthi**

- i. Attended the workshop/CME on “Evidence informed medicine: A practical approach” at JIPMER from March 8 to 9, 2013.
- ii. Delivered a talk on “SOPs for Ethics committee” during the “Workshop on Bioethics for Ethics Committee Members” held at JIPMER on April 3, 2013.
- iii. Attended the workshop on “Course in the ATC/DDD Methodology and Drug Utilization Research” at Worli, Mumbai from April 19 to 20, 2013.
- iv. Participated in the “Workshop on Question Paper setting” at JIPMER on July 7, 2013.
- v. Participated in the 4th Indian Pharmacological Society conference 2013 Puducherry Chapter, at IGMC&RI, Puducherry on November 15, 2013.
- vi. Participated in the “CME and Workshop on Patient safety” at JIPMER on November 23 and 24, 2013 and presented a poster on medication errors.
- vii. Participated in Updating the WHO database on Medicines use in developing and transitional countries from November 27 to December 4, 2013 at South-East Asia Regional Office, New Delhi.
- viii. Attended a seminar on “Translational Research” held at JIPMER on January 24, 2014.

**Dr. S. Manikandan**

- i. Conducted a workshop on “Scientific Writing” at the Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram, Kerala, on June 12 and 13, 2013. The workshop was a hands-on training programme for the faculty and postgraduates of SCTIMST.
- ii. Participated in Updating the WHO database on Medicines use in developing and transitional countries from November 27 to December 4 2013 at South-East Asia Regional Office, New Delhi.
- iii. Conducted a workshop in the Indian Society for Rational Pharmacotherapeutics Conference (ISRPTCON) 2013 from January 30 to February 1, 2014 at Dayanand Medical College and Hospital, Ludhiana, Punjab.
- iv. Resource person for the Workshop on Scientific Writing at Government Medical College, Amritsar conducted on February 2, 2014.
- v. Resource person for the Workshop on Ethics and Professionalism at Government Medical College, Amritsar on February 3, 2014.
- vi. Delivered a guest lecture at the 47th Annual Conference of the Tamil Nadu Orthopaedic Association (TNOACON 2014) at Chettinad Health City, Kelambakkam, Chennai, on February 9, 2014.

**Dr. C. Girish**

- i. Presented a paper titled “Involvement of the serotonergic system in the antidepressant-like activity of methanolic extract of bacopa monnieri in mice” at the 46th Annual conference of Indian Pharmacological Society held at NIMHANS, Bangalore from December 16 to 18, 2013.
- ii. Attended the 68th National Course on Educational Science for Teachers of Health Professionals held from February 20 to March 1, 2014 organized by the Department of Medical education, JIPMER.

**Dr. R. Kesavan**

- i. Participated in the Workshop on “Data analysis using NONMEM” organized by Population Approach Group of India (PAGIN) from August 1 to 3, 2013 in PSG institute of Medical Sciences and Research, Coimbatore.
- ii. Participated in a training course on Safe Injection Practices under Center of Excellences training program as a master trainer on September 4, 2013 at JIPMER Pondicherry.

- iii. Participated in the National Workshop Techniques in Animal Cell Culture and In Vitro Toxicology held at MGDC, Bharathidasan University Tiruchirappalli on October 2 to 11, 2013.
- iv. Participated as delegate in the Pre-Conference Workshop on “Animal Cell Culture Techniques” on December 14, 2013 at Karnataka College of Pharmacy Bengaluru.
- v. Participated as delegate in the Pre-Conference Workshop on “Advances in Preclinical Research” on December 15, 2013 at Vydehi Institute of Medical Sciences, Bengaluru.
- vi. Attended the 46th Annual Conferences of Indian Pharmacological Society held from December 16 to 18, 2013 at NIMHANS Convention Centre, Bengaluru.
- vii. Participated in the National Training Programme Medication safety in Hospitals: Role of Pharmacists Organized by Delhi Society for Promotion of Rational Use of Drugs, Delhi on February 13 to 14, 2014.
- viii. Participated in the National Training course on Promoting Rational Use of Medicine and Enhancing Access and Safe use of Medicines, Organized by Delhi Society for Promotion of Rational Use of Drugs, New Delhi on February 13 to 14, 2014.

### Dr. P.M.K. Reddy

- i. Attended the 46th Annual Conferences of Indian Pharmacological Society held from December 16 to 18, 2013 at NIMHANS Convention Centre, Bengaluru.

### Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions / Departments	Status
1.	Dr. D. G. Shewade	Influence of CYP2C9, VKORC1 and CYP4F2 genetic polymorphisms on plasma warfarin levels and development of an algorithm for initiating warfarin therapy in South Indian population.	November 14, 2010–May 14, 2013	ICMR Rs. 24,12,840	INSERM UMRS775 Centre, Paris	Completed
2.	Dr. D. G. Shewade	Pharmacogenetics of fluoxetine in south Indian major depressive disorder patients.	Recommended by ICMR	Rs. 20 lakh	Psychiatry	Ongoing
3.	Dr. Steven A Dkhar	Pharmacogenomics of lipid lowering response of atorvastatin among dyslipidemic Tamilian population	3 years from March 5, 2013	DBT Rs. 26,27,600	Cardiology medicine biochemistry	Ongoing

(Continued)

S. No.	Name of Principal Investigator	Title of Project	Duration of Project	Funding Agency and Total Funds Sanctioned	Collaborating Institutions / Departments	Status
4.	Dr. Jayanthi. M	Effect of alcohol on drug metabolizing enzyme CYP2C19	From March 2012 to February 2014	Intramural funding Rs. 2 lakhs	Psychiatry biochemistry	Ongoing
5.	Dr. Jayanthi. M	Influence of genetic polymorphisms on capecitabine induced hand-foot syndrome in cancer patients treated at RCC, JIPMER	From March 2013 to February 2015	Nil	Medical oncology	Ongoing

## PUBLICATIONS

### Journals

1. Madhavrao C, Parasuraman S, Raveendran R. Insignificant effect of cleistanthin A and cleistanthin B on motor function in animal models. *J. Pharm. Negative Result.* 2013; 4: 66–70.
2. Lakshmanan M. Administration by Gavage is the rule. *Cardiovasc. Drugs Ther.* 2013; 27: 481.
3. Lakshmanan M, and Xavier AS. Bedaquiline—The first ATP synthase inhibitor against multi drug resistant tuberculosis. *J. Young Pharm.* 2013; 5: 112–5.
4. Umamaheswaran G, Dkhar SA, Kalaivani S, Anjana R, Revathy M, Jaharamma M, Shree KM, Kadambari D, and Adithan C. Haplotype structures and functional polymorphic variants of the drug target enzyme aromatase (CYP19A1) in South Indian population. *Med. Oncol.* 2013; 30: 665.
5. Vishnukumar S, Umamaheswaran G, Anichavezhi D, Indumathy S, Adithan C, Srinivasan K, et al. P-glycoprotein expression as a predictor of response to neoadjuvant chemotherapy in breast cancer. *Ind. J. Cancer.* 2013; 50: 195–99.
6. Kumar DK, Shewade DG, Manjunath S, Ushakiran P, Reneega G, and Adithan C. Inter and intra ethnic variation of vitamin K epoxide reductase complex and cytochrome P450 4F2 genetic polymorphisms and their prevalence in South Indian population. *Ind. J. Hum. Genet.* 2013; 19: 301–10.
7. Krishna Kumar D, Shewade DG, Parasuraman S, Rajan S, Balachander J, Sai Chandran BV, et al. Estimation of plasma levels of warfarin and 7-hydroxy warfarin by high performance liquid chromatography in patients receiving warfarin therapy. *J. Young Pharm. JYP* 2013; 5: 13–7.
8. Sandhiya S, Melvin G, Suresh Kumar S, and Steven AD. Clinical trials in India: Where do we stand globally? *Perspect. Clin. Res.* 2013; 4: 160–4.
9. George M, Selvarajan S, S S-K, Dkhar SA, and Chandrasekaran A. Globalization of clinical trials—where are we heading? *Curr. Clin. Pharmacol.* 2013; 8: 115–23.
10. George M, Amrutheshwar R, Rajkumar RP, Kattimani S, and Dkhar SA. Newer antipsychotics and upcoming molecules for schizophrenia. *Eur. J. Clin. Pharmacol.* 2013; 69: 1497–509.
11. Umamaheswaran G, Krishna Kumar D, and Adithan C. Distribution of genetic polymorphisms of genes encoding drug metabolizing enzymes and drug transporters—a review with Indian perspective. *Ind. J. Med. Res.* 2014; 139: 27–65.
12. Nishanthini D, Aravinda Kumar B, Girish C, and Balakrishnan S. Prescribing pattern of drugs for cardiovascular co-morbidities in type 2 diabetes mellitus in a tertiary care Indian hospital. *J. Pharmacol. Pharmacother.* 2014; 5: 54–56.
13. Kodidela S, Pradhan SC, and Dubashi B. Pharmacogenetics of methotrexate in acute lymphoblastic leukaemia: Why still at the bench level?. *Eur. J. Clin. Pharmacol.* 2014; 70: 253–60.

14. Kumar DK, Shewade DG, Lorient M-A, Beaune P, Balachander J, Sai Chandran BV, et al. Effect of CYP2C9, VKORC1, CYP4F2 and GGCX genetic variants on warfarin maintenance dose and explicating a new pharmacogenetic algorithm in South Indian population. *Eur. J. Clin. Pharmacol.* 2014; 70: 47–56.
15. Batmanabane G. Antidotes: Where are they when needed? *J. Pharmacol. Pharmacotherap.* 2014; 5: 1.
16. Batmanabane G. Why patients in pain cannot get “God’s own medicine?” *J. Pharmacol. Pharmacotherap.* 2014; 5: 81.
17. Arun Kumar AS, Umamaheswaran G, Suresh Kumar, Balachandar J, and Adithan C. Role of CYP genetic variants on hypertension in South Indian population. *J. Young Pharm.* In Press.
18. Saranya V, Umamaheswaran G, Mukta W, Das A K, and Adithan C. Allele and genotype frequency of a genetic variant in ATM gene affecting glycemic response to metformin in South Indian population. *Ind. J. Endocrin. Metabol.* In Press.
19. Umamaheswaran G, and Shewade DG. Pharmacogenomics of Indian population. *Handbook of Pharmacogenomics and Stratified Medicine.* edited by Sandosh Padmanaban. Elsevier, 2014; In press.

## **AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

### **Dr. S.C. Pradhan**

Evaluated a CSIR project entitled “Synthesis of a novel nano-thiotrisaccharide conjugation with anti-leishmanial drug for targeted drug delivery and efficacy studies”. The report of evaluation has been sent.

### **Dr. Gitanjali. B**

Appointed as Temporary Advisor to the World Health Organization for the 19th WHO Expert Committee on the Selection and Use of Essential Medicines. The meeting was held from April 8 to 12, 2013, at the WHO headquarters in Geneva, Switzerland.

Appointed as Temporary Advisor to the World Health Organization for a Regional Consultation on Effective Management of Medicines held in Bangkok, Thailand from April 23 to 26, 2013.

External evaluator of project of CDMU (Community Development Medicinal Unit) at Bhubaneswar, Odisha from June 26 to 29, 2013.

Faculty for online PG Diploma in Bioethics course conducted by the National Institute of Epidemiology, ICMR.

Chairperson of Institute Ethics Committee, Pondicherry Institute of Medical Sciences, Kalapet.

### **Dr. R. Raveendran**

Got the first prize for a poster entitled “Computerized rat mannequin for simulating the effect of drugs on blood pressure” at the 46th annual conference of IPS at NIMHANS convention centre, Bangaluru from December 16 to 18, 2013.

### **Dr. Steven A. Dkhar**

Received a grant of Rs. 26,27,600 from DBT for the project entitled, “Pharmacogenomics of lipid lowering response of atorvastatin among dyslipidemic Tamilian population”. The project is ongoing from March 5, 2013 for a period of 3 years. Ms. C. Indhumathi, PhD scholar has been appointed Senior Research Fellow for the project.

### Postgraduates and Research Scholars

Mr. Umamaheswaran, PhD scholar, won first prize (best paper award) for the presentation entitled “Analysis of CYP19A1 genotypes and haplotypes with musculoskeletal pain in letrozole treated breast cancer survivors” under Medical Sciences category in Indian Science Congress Symposium on Science for Shaping the Future of India, organized by Centre for Bioinformatics, Pondicherry University during Mar 15 and 16, 2013.

Mr. Umamaheswaran, PhD scholar won “FIRST PRIZE” (Breast Surgery International Award and a prize money of euro 1,000.00) in the field of breast surgery for the research paper entitled “Aromatase gene polymorphisms and the risk of arthralgia in breast cancer patients receiving adjuvant letrozole” in International Surgical Week organized by International Society of Surgery and Finnish Society of Surgery during August 25–29, 2013 held at Helsinki exhibition and convention Centre, Helsinki, FINLAND.

Mr. Umamaheswaran, Ph.D. scholar won CPP young scientist investigator award in the field of Translational and clinical cancer genomics for the research paper entitled “Significant effect of CYP19A1 gene polymorphisms on breast cancer recurrence, survival and musculoskeletal toxicity in adjuvant letrozole therapy” in EMBL: Cancer Genomics, Organized by European Molecular Biology Laboratory, Heidelberg, GERMANY during November 3–5, 2013.

Dr. Vipulkumar Thummar won the first prize for the best oral paper presentation in 4th Annual Conference of Indian Pharmacological Society 2013 (Puducherry Chapter) organized by IGMC, Puducherry on November 15, 2013.

Dr. Alphienes X Stanley won the Prof. Manjeet Singh Prize for the paper entitled “Effect of anti-tuberculosis therapy on polymorphic drug metabolizing enzyme CYP2C19 using omeprazole as a probe drug” at the 46th Annual Conference of Indian Pharmacological Society held at Bangalore during December 16–18, 2013.

Dr. Alphienes X Stanley, Dr. Vipulkumar Thummar and Dr. Anbarasan won the third prize at the National Quiz contest on Pharmacology in the 46th Annual Conference of Indian Pharmacological Society held at Bangalore during December 16–18, 2013.

Dr. Radhika won the first prize in neuropharmacology oral session in 46th annual conference of Indian Pharmacological society, organized by the Karnataka College of Pharmacy and held in NIMHANS convention centre, Bengaluru from December 16 to 18, 2013 for the paper titled “Effect of HTR-2C (5HT2C receptor) genetic polymorphism on risperidone-induced weight gain in patients with schizophrenia and acute psychosis”.

Dr. Saranya V won the “Prof. UK Seth Prize” for the paper on “Pharmacogenetic study of the effect of polymorphisms in SLC22A1 gene and ATM gene on metformin response in type two diabetes mellitus patients in South India” presented in the 46th Annual Conference of Indian Pharmacological Society (IPSCON 2013) held at NIMHANS Convention Centre, Bangalore from December 16 to 18, 2013.

Dr. Krishna Kumar D, PhD scholar was awarded the above prize in IPSCON 2013, Bangalore, for the best paper published in an international journal on any aspect of cardiovascular pharmacology and the work carried out in an Indian laboratory. The paper entitled “Effect of CYP2C9, VKORC1, CYP4F2 and GGCX genetic variants on warfarin maintenance dose and explicating a new pharmacogenetic algorithm in South Indian population” was authored by Krishna Kumar D, DG Shewade, Lorient Marie-Anne, Beaune Philippe, Balachandar Jayaraman, Sai Chandran B.V. Adithan Chandrasekaran.

Mr. Umamaheswaran, Ph.D. scholar won Science Translational Medicine Travel Award for the short talk entitled, “Single nucleotide germ line variations at the CYP19A1 gene locus predict clinical outcomes of adjuvant letrozole therapy in postmenopausal women treated for early breast cancer” in International Conference on Cancer Biology: Molecular mechanisms and novel therapeutics (CANCERCON 14), Organized by IIT and Cancer relief and trust, Chennai during January 30–February 1, 2014.

Ms. Sunitha presented a paper titled “Influence of Dihydrofolate reductase (DHFR) gene polymorphisms on outcome of methotrexate-based maintenance therapy in patients with Acute Lymphoblastic Leukemia” paper has won the first prize for poster presentation in International Acute Lymphoblastic Leukemia Meet held at Cancer Institute (WIA), Adyar, and Chennai on January 11–12, 2014.

Ms. Sunitha presented a paper titled “Influence of Dihydrofolate reductase (DHFR) gene polymorphisms on relapse of Acute Lymphoblastic Leukemia” paper and won the best paper award in the Regional

Paediatric oncology conference (REPOC 2014), organised by regional cancer centre and department of paediatric surgery, JIPMER on March 8 and 9, 2014 at JIPMER, Puducherry-6.

Mr. Umamaheswaran, PhD scholar has been awarded Young Scientist—International Travel Support Scheme by Science and Engineering Research Board (SERB), Department of Science and Technology, Ministry of Science and Technology, Government of India.

Mr. Umamaheswaran, PhD scholar has been awarded Young Scientist—International travel grant by Non-ICMR bio-medical scientists by Indian Council of Medical Research (ICMR), New Delhi.

Mr. Umamaheswaran, PhD scholar has been selected as young investigator member by European Association for Cancer Research.

## **PATIENT CARE SERVICES**

### ***Adverse Drug Reaction Monitoring Centre***

ADR reports are assessed for causality every week and sent to the ADR database of the country.

### ***Therapeutic Drug Monitoring (TDM) and Urinary VMA Assay***

The department of Pharmacology acquired the LC-MSMS which has enabled measurement of several drugs. TDM service to hospital is being provided for drugs such as tacrolimus, cyclosporine (LC-MSMS), phenytoin, phenobarbitone, carbamazepine and valproic acid (HPLC).

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### ***Dr. S.C. Pradhan***

- i. Vigilance officer.
- ii. In-charge of PhD programme.
- iii. Co-investigator in the DST (Fast) project entitled “Population pharmacokinetics and pharmacogenetics of Imatinib mesylate in Chronic Myeloid Leukaemia patients”.
- iv. Examiner and Paper setter for MBBS, MD (Pharmacology) and DM (Clinical Pharmacology).

### ***Dr. D.G. Shewade***

- i. Officer in-charge of Hospital Pharmacy.

### ***Dr. B. Gitanjali***

- i. Officer-in-charge of purchase section.
- ii. Head of the Department of Medical Education.
- iii. Group leader for medication safety and member of the coordination group for patient safety.
- iv. Member of the NTTTC core-group, interns orientation programme, PG orientation programme and training programme on research methodology for postgraduates and doctoral students.
- v. Member in the Faculty-Residents Joint Committee.

### ***Dr. R. Raveendran***

- i. Officer in-charge CRAFT.
- ii. Chairman, Departmental Canteen.
- iii. General Secretary, Students Cafeteria.
- iv. Chairman, Institutional Review Board, Nursing College, Pondicherry Institute of Medical Sciences, Puducherry.

## Pharmacology

- v. Member, Ethics committee, Indira Gandhi Medical College & Research Institute.
- vi. Member, Advisory Board, Mahatma Gandhi-Doerenkamp Center for Alternatives in Use of Animals in Life Science Education held in the Bharathidasan University in Tiruchirapalli.

### **Dr. Steven A. Dkhar**

- i. Officer in-charge of laundry and linen sections.
- ii. Examiner for DM (Clinical Pharmacology).
- iii. Teaching in-charge for BSc, MLT, BSc Perfusion Technology, BSc Dialysis Technology, BSc Operation Theatre Technology, BSc Neurotechnology
- iv. Teaching in-charge for MRO.
  - v. Sub co-ordinator, ADR monitoring centre.
- vi. Condemnation officer, canteen, old and new guest houses, central workshop, community hall, Hindi cell and library.
- vii. Information officer regarding RTI of laundry and linen section.

### **Dr. M. Jayanthi**

- i. Member of institute stores articles purchase committee.
- ii. Teaching in-charge BSc Nursing and PG Diploma in Nursing.
- iii. Member of JIPMER Quality Council.
- iv. Member of the NTTC core-group, interns orientation programme, PG orientation programme and training programme on research methodology for postgraduates and doctoral students.

### **Dr. S. Manikandan**

- i. Leader, Medication Safety Group, JIPMER Quality Council.
- ii. Teaching in-charge for MBBS course (Along with Dr. Gitanjali B.).
- iii. Member of the NTTC core-group, interns orientation programme, PG orientation programme and training programme on research methodology for postgraduates and doctoral students.

### **Dr. A. Surendiran**

- i. Member Secretary—Plagiarism Verification Committee, JIPMER.
- ii. Member of the committee for the JIPMER Annual Report/Research Framework Document (RFD)/JIPMER's Input for Ministry's Annual Report.

### **Dr. C. Girish**

- i. Teaching in-charge for BSc, MLT, BSc Perfusion Technology, BSc Dialysis Technology, BSc Operation Theatre Technology, BSc Neurotechnology

### **Dr. R. Kesavan**

- i. Deputy Officer In-charge, Department of Pharmacy.
- ii. Faculty in-charge of pharmacogenomics laboratory, Department of Pharmacology, JIPMER.
- iii. Officer for conduct of annual physical verification of stores for automobile section (including director's office) and condemnation officer for breakage of articles below Rs. 10,000/-

## **SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. Dr. Chakradhara Rao from the University hospitals of Geneva, Geneva, Switzerland, visited the department and delivered a talk on "An overview of Therapeutic Drug Concentration Monitoring and its Role in personalizing treatment" on December 26, 2013.



# Physical Medicine and Rehabilitation

## FACULTY LIST

- |                                                              |   |                |
|--------------------------------------------------------------|---|----------------|
| 1. PROFESSOR AND HEAD                                        | : | Jagdish Menon  |
| 2. OFFICER I/C OF PMR AND ADDNL<br>PROFESSOR OF ORTHOPAEDICS | : | Murali Poduval |
| 3. ASST PROFESSOR                                            | : | Navin Kumar    |

### STAFF

#### PHYSIOTHERAPY SECTION

- |                             |   |                                                                                                |
|-----------------------------|---|------------------------------------------------------------------------------------------------|
| 1. SENIOR PHYSIOTHERAPIST   | : | Kaleeswaran V.                                                                                 |
| 2. JUNIOR PHYSIOTHERAPIST   | : | i. Suganthi M.<br>ii. Banumathy V.<br>iii. Mohankrishnan J.<br>iv. Salaja R.<br>v. Sivagami L. |
| 3. PHYSIOTHERAPY TECHNICIAN | : | Rajakumar D.                                                                                   |
| 4. PHYSIOTHERAPY TRAINEE    | : | Venkatesan B.                                                                                  |

#### OCCUPATIONAL THERAPY SECTION

- |                                    |   |                                                                                       |
|------------------------------------|---|---------------------------------------------------------------------------------------|
| 1. SENIOR OCCUPATIONAL THERAPIST   | : | Sathish Kumar S.                                                                      |
| 2. JUNIOR OCCUPATIONAL THERAPIST   | : | i. Sujatha J.B.<br>ii. Prasanna R.<br>iii. Josemary Sangeetha<br>iv. Bandana Senapati |
| 3. OCCUPATIONAL THERAPY TECHNICIAN | : | Suba Growther                                                                         |
| 4. CRAFT TEACHER                   | : | Coumaracourobarane D.                                                                 |

#### PROSTHETICS SECTION

- |                          |   |                               |
|--------------------------|---|-------------------------------|
| 1. PROSTHETIST           | : | Mathivanan K.                 |
| 2. PROSTHETIC TECHNICIAN | : | Anand Padmanabhan, Prakash J. |
| 3. PROSTHETIC CRAFTSMAN  | : | Herald Felix Xavier S.X.      |
| 4. CARPENTER             | : | Gilbert Rajsekar              |

**ORTHOTIC SECTION**

1. ORTHOTIST	:	Srikanth K.
2. ORTHOTIC TECHNICIANS	:	Mana Govind Dalai, Chandra Shekhar Tiwary
3. ORTHOTIC CRAFTSMAN	:	Mohanan M.P.K., Sargunan V.
4. COBBLER GR.C	:	Kasi M.
5. COBBLER	:	Narayanan D.

**BACKGROUND INFORMATION**

The PMR department has been functional in JIPMER since 1986. The Physiotherapy Section and the Occupational therapy Section started in JIPMER in the year 1966 under Orthopaedics Department. In addition to routine duties, therapists also attend special clinics like CP clinic/Poliomyelitis clinics. The Orthotic section was started in 1968 and it provides several different types of orthoses to the patients. Prosthetics section is functioning since 1986 at PMR block. Amputees who are referred by various Departments through consultant of PMR are fitted with appropriate prosthesis.

The PMR OPD has resumed functioning since February 2012 after a new faculty has joined. The department has been associated with UG teaching along with Orthopaedics and peripheral posting of PG students from Orthopaedics and Immunology. It is also associated with training of MPT students from PT College (MTPGIHS) teaching of MRO trainees, nursing students.

**EDUCATION COURSES**

- i. MBBS classes along with Orthopaedics.
- ii. Intern posting for 15 days.
- iii. Teaching of BSc Nursing and MRO trainees.
- iv. Training of MPT students from MTPGIHS.

**CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT**

Organized "HEMOPHILIA CAMP" in association with department of Orthopaedics and Division of clinical Haematology on April 28, 2013 under auspices of Pondicherry Hemophilia Society.

**Physiotherapy section** of PMR dept celebrated the "WORLD PHYSICAL THERAPY DAY" by organizing a one day CME program on September 8, 2013. The function was presided with Dr. T.S. Ravikumar, Director as the Chief Guest. The theme for the year was "Fit for Future." Senior faculties from Endocrinology, Radiotherapy, Neurosurgery, CTVS, Obstetrics and Gynecology and Orthopaedics Departments of JIPMER gave presentations with focus on fitness in relation to rehab. Faculty from PMR department and Physical Therapists from Physiotherapy sections, External Eminent Speakers from the field of physiotherapy also updated the current trends and practices in fitness. Over 100 students and practicing Physiotherapists across many parts of South India attended the CME.

Disability Day Awareness Programme was organized in **Occupational Therapy section** on World Disability Day on December 3, 2013. The function was presided over by Dr. Mahadevan, Dean, JIPMER, as the Chief Guest and Dr. P. Nalini, Former Director Professor of Paediatrics JIPMER as guest speaker. Dr. D.K. Patro Senior Professor of Orthopaedics, Dr. Navin Kumar, Assistant Professor of PMR, Mr. Sathish Kumar, Senior Occupational Therapist, staff of Occupational Therapy Department and PMR along with patients and their relatives were also present. Handouts regarding Disability awareness were distributed among the patients and their relatives in Tamil and English.

## CONFERENCES AND CMES ATTENDED BY

### Faculty

#### *Dr. Navin Kumar, Asst. Prof of PMR*

- i. Attended Hemophilia Camp by hemophilia society Pondicherry on April 28, 2013.
- ii. Attended MCQ workshop on August 11, 2013 organised by NTTC and Department of Medical Education, JIPMER.
- iii. Attended and presented a lecture on “Physiatrist’s perspectives on fitness in amputees” at CME organized by Physiotherapy section of PMR Department on September 8, 2013 on the occasion of world Physiotherapy Day.
- iv. Attended IAPMR Mid-term CME 2013 on September 20–22, 2013 organised by MAPMR and IAPMR at Kokilaben Dhirubhai Ambani Hospital, Mumbai.
- v. Attended and Presented a “Demonstration on Pressure garments and Splints in wound management” on October 13, 2013 at “WOUNDCARECON—2013” 2nd International and 7th National Conference of The Society for Wound Care and Research (SWCR), organised by Department of Plastic Surgery, JIPMER at JIPMER Auditorium from October 11 to 13, 2013.
- vi. Attended CME on patient safety on November 23 and 24, 2013 organised by JIPMER Quality Council.
- vii. Presented JSS lead talk on “Disability Assessment—New guidelines and Protocols” at the monthly meeting of JSS at JIPMER SSB Conference Hall on January 03, 2014.
- viii. Presented a talk on “Prosthetics and Orthotics” on January 12, 2014 in the PG Instructional Orthopedics Course organized by Department of Orthopedics, JIPMER at Jipmer Academic Centre.
- ix. Attended and presented a lecture on “SCI Rehab” on January 26, 2014 in the IAPMRCON 2014 42nd Annual National Conference of IAPMR organized by TN chapter at IIT Madras Campus from January 24 to 26, 2014.

### Physiotherapy Section

#### *Mr. V. Kaleeswaran, Senior Physiotherapist*

- i. Attended Hemophilia Camp by hemophilia society Pondicherry on April 28, 2013.
- ii. Attended as Organizing Secretary in Organising a 1 day CME programme on the event of “World Physiotherapy Day” at JIPMER, Puducherry on September 8, 2013.
- iii. Attended a seminar on “Post-Menopausal Women and Their Bone Health” at MTPG and RIHS, Puducherry on October 18, 2013.
- iv. Attended a Seminar on “Update on chronic Obstructive Pulmonary Diseases” at MTPG and RIHS, Puducherry on November 18, 2013.
- v. Attended the awareness programme organized on the event of “World Disability Day” by Occupational Therapy section, JIPMER, Puducherry on December 3, 2013.
- vi. Attended a 1 day hands on workshop for “Manual therapy Approches on Cervical Radiculopathy” at SVC PMS, Puducherry on January 20, 2014.
- vii. Shared Co-authorship in poster presentation cited, “Effectiveness of Lateral Wedge insole in pains Reduction and Functional improvement in medial Tibio—Femoral Osteo Arthritis”—A clinical review from February 14 to February 16, 2014.

#### *Mrs. M. Suganthi, Junior Physiotherapist*

- i. Attended Hemophilia Camp by hemophilia society Pondicherry on April 28, 2013.

#### *Mrs. Bhanumathy Mohankrishnan, Junior Physiotherapist*

- i. Attended Hemophilia Camp by hemophilia society Pondicherry on April 28, 2013.

## Physical Medicine and Rehabilitation

- ii. An organizing member and presented a paper titled on “Cardio Respiratory Fitness” on September 8, 2013 in 1 day CME on the event of “World Physiotherapy Day”, at JIPMER, Puducherry.
- iii. Presented a paper titled “Perturbation exercises as a suitable alternative in conservative ACL rehab” and shared Co-authorship of paper presented in the conference “An observation study on the pattern of mobility loss n shoulder in patients following mastectomy” in STRIDE’13 International Physiotherapy conference Saveetha college of Physiotherapy, Chennai.

### **Mr. J. Mohankrishnan, Junior Physiotherapist**

- i. Attended Hemophilia Camp by Hemophilia Society Pondicherry on April 28, 2013.
- ii. Attended as faculty and presented a lecture on “Bankart repair Rehab protocol” at “Shoulder Course” organized by Ortho One, Coimbatore in the 3rd Indo-US conference for Shoulder Rehab on July 2013.
- iii. Attended as organizing Secretary 1 day CME programme on the event of “World Physiotherapy Day”, at JIPMER, Puducherry on September 8, 2013 and presented a paper on “Traditional Methods of Fitness” in the CME.
- iv. Shared co-authorship in the papers titled “An observation study on the pattern of mobility loss n shoulder in patients following mastectomy” and “Perturbation exercises as a suitable alternative in conservative ACL rehab” in Stride’13—International conference for Physiotherapists at Saveetha college of Physiotherapy, Chennai on October 19, 2013.
- v. Was invited as a speaker at Sri Venketeswara College of Physiotherapy to give a lecture on “Recent manipulative technique updates for cervical Radiculopathy” on January 2014.
- vi. Delivered a live talk show on Ranibow FM on February 2014.
- vii. Was invited as a speaker by “State Government of Tamil Nadu Textile Ministry” for delivering a lecture on “Current Updates in Knee Rehabilitation”.
- viii. Shared co-authorship in poster presentation at the National Prosthetic and Orthotic conference, titled “Effectiveness of lateral wedge insole in pain reduction and function improvement in Medial Tibio-Femoral OA knee”.

### **Mrs. R. Salaja, Junior Physiotherapist**

- i. Organizing member in 1 day CME programme on the event of World Physiotherapy day on September 8, 2013, also presented a paper titled “An observation study on the pattern of mobility loss n shoulder in patients following mastectomy” and co-authorship for the paper titled “A comprehensive rehabilitation for cancer survivors.”
- ii. Attended and presented paper titled “An observation study on the pattern of mobility loss n shoulder in patients following mastectomy” and shared co-authorship in the paper titled “Perturbation exercises as a suitable alternative in conservative ACL rehab” in Stride’13—International conference for Physiotherapists at Saveetha College of Physiotherapy, Chennai on October 19, 2013.
- iii. Attended a 1 day hands on workshop for “Manual Therapy Approaches on Cervical Radioculopathy” at SVC PMS, Puducherry on January 20, 2014.

## Occupational Therapy Section

### **Mr. S. Sathish Kumar, Senior Occupational Therapist**

- i. Attended Hemophilia Camp by Hemophilia Society Pondicherry on April 28, 2013.
- ii. Attended CME in “Fitness in Rehabilitation movement” for health at SSB on World Physiotherapy Day in JIPMER on July 8, 2013.
- iii. Attended and presented a poster presentation with the Title “OCCUPATIONAL THERAPISTS PERSPECTIVE IN WOUND CARE MANAGEMENT” in 2nd International and 7th National Annual Conference of SWCR “Wound Care Con 2013” on October 11–13, 2013 at JIPMER, Pondicherry.

***Mrs. Sujatha J.B., Junior Occupational Therapist***

- i. Attended CME on “Fitness in Rehabilitation” on September 8, 2013 at SSB, JIPMER.
- ii. Attended and presented a paper titled “Setting SMART goals in the management of Cerebral palsy” at 3rd RECOUP International Conference in cerebral palsy in RECOUP hospital, Bangalore on January 26, 2014.

***Mrs. Bandana Senapati, Junior Occupational Therapist***

- i. Attended Hemophilia Camp by hemophilia society Pondicherry on April 28, 2013.
- ii. Attended CME in “Fitness in Rehabilitation Movement” for health at JIPMER on July 8, 2013.
- iii. Attended CME and workshop on “Patient safety” at JIPMER on November 23 and 24, 2013.

**Prosthetics Section*****Mr. Mathivanan K., Prosthetist***

- i. Attended “Current trends in Prosthetics and Orthotics practice” on November 10, 2013 at Government Institute of Rehabilitation Medicine, K.K. Nagar, Chennai organized by Indian Orthotists and Prosthetists Association and Government Institute of Rehabilitation Medicine.

***Mr. M. Ananda Padmanabhan, Prosthetic Technician***

- i. Attended “Current Trends in Prosthetics and Orthotics Practice” on November 10, 2013 at Government Institute of Rehabilitation Medicine, K.K. Nagar, Chennai organized by Indian Orthotists and Prosthetists Association and Government Institute of Rehabilitation Medicine.

***Mr. J. Prakash, Prosthetic Technician***

- i. Attended “Current Trends in Prosthetics and Orthotics Practice” on November 10, 2013 at Government Institute of Rehabilitation Medicine, K.K. Nagar, Chennai organized by Indian Orthotists and Prosthetists Association and Government Institute of Rehabilitation Medicine.
- ii. Attended 21st National conference of OPAI from February 14 to 16, 2014, Chennai Trade Centre, Chennai.

***Mr. S. X. Herald Felix Xavier, Prosthetic Technician***

- i. Attended “Current Trends in Prosthetics and Orthotics Practice” on November 10, 2013 at Government Institute of Rehabilitation Medicine, K.K. Nagar, Chennai organized by Indian Orthotists and Prosthetists Association and Government Institute of Rehabilitation Medicine.
- ii. Attended and presented a poster titled “Effectiveness of lateral wedge insole in pain reduction and function improvement in Medial Tibio-Femoral OA knee” at the 21st National conference of OPAI (3 days from February 14 to 16, 2014), Chennai Trade Centre, Chennai.

**Orthotics Section*****Mr. K.Srikanth, Orthotist***

- i. Attended CRE on current trends in P&O practice on November 10, 2013 at GIRM, Chennai.
- ii. Attended National conference of OPAI from February 14 to 16, 2014 at Chennai.

***Mr. Mana Govind Dalai, Orthotic Technician***

- i. Attended CRE on current trends in P&O practice at GRM, Chennai conducted by OPAI on November 10, 2013.
- ii. Attended 21st National conference of OPAI from February 14 to 16, 2014, Chennai Trade Centre, Chennai.

## Physical Medicine and Rehabilitation

### Mr. Chandra Shekhar Tiwari, Orthotic Technician

- i. Attended CRE on current trends in P&O practice at GRM, Chennai conducted by OPAI on November 10, 2013.

### Mr. V. Sargunan, Orthotics Craftsman

- i. Attended CRE on current trends in P&O practice on November 10, 2013 at GIRM, Chennai.
- ii. Attended National Conference of OPAI from February 15 to 16, 2014 at Chennai.

### Research Project

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From ... To)	Funding Agency and Total funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012-2013 or Ongoing)
1.	Bhanumathy Mohankrishnan	The effect of taping technique on immediate pain relief and grip strength increase in patients with lateral epicondylitis	12 months 2013-2014	NA	NA	NA
2.	Mohankrishnan J.	The effect of eccentric exercises over joint play techniques and conventional physiotherapy in Non-traumatic shoulder stiffness.	10 years 2004-2014	NA	NA	On-going statistical analysis

### Publication

#### NIL PATIENT CARE SERVICES PMR OPD

Referred patients from various departments including Orthopedics, neurology, neurosurgery, immunology, plastic surgery, paediatrics etc are attended and appropriately advised for physiotherapy, occupational therapy and provided appropriate appliances, if needed.

Besides this, patients are also attended bedside in various wards and ICUs.

### Physiotherapy and Occupational Therapy Section

- i. Physiotherapy and Occupational Therapy services are provided to the patients as out-patient department service in forenoon and In-patients services in the afternoon sessions. In addition to routine duties, therapists also attend special clinics such as poliomyelitis/cerebral palsy clinic.
- ii. Patients referred from various OPDs are evaluated and taken up for regular therapy (pain management and rehabilitation) and follow-up.

### Prosthetics Section

- i. Axillary Crutches to amputees.
- ii. Elbow crutches to amputees.
- iii. Upper limb prosthesis to amputees.

- iv. Lower Limb Prosthesis to amputees.
- v. Upper limb repair work on old prosthesis.
- vi. Lower limb repair works on old prosthesis.
- vii. Gait training to amputees on trial limb.
- viii. In-patient and out-patient prosthetic evaluation assessment for new patients.

### **Orthotics Section**

- i. Provides orthoses to patients suffering from polio, cerebral palsy, spinal disorders, scoliosis, contraction of the toes, finger, etc.
- ii. Providing orthoses to orthopaedically handicapped patient.
- iii. Supportive orthoses to patients with mental disorder spastic children.
- iv. Providing walking aids.
- v. Providing modern, light weight updated orthoses to the needy patient.

## **AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

### ***Mrs. R. Salaja, Junior Physiotherapist***

- i. Won first prize for paper presentation in Stride' 13—International conference for Physiotherapists at Saveetha college of Physiotherapy, Chennai on October 19, 2013.

### ***Mr. S. Sathish Kumar, Senior Occupational Therapist***

Won third prize in POSTER PRESENTATION CATEGORY in 2nd International and 7th National Conference of The Society for Wound Care and Research (SWCR)—Wound Care Con-2013, organised by Department of Plastic Surgery, JIPMER at JIPMER Auditorium from October 11 to 13, 2013. The poster was titled “Occupational Therapists perspective in Wound Care Management”.

### ***Mr. Mana Govind Dalai, Orthotic Technician***

- i. Membership of ISPO (International society for P&O).

### ***Mr. Chandra Shekhar Tiwari, Orthotic Technician***

- i. Membership of ISPO (International society for P&O).

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

- i. Five bedded PMR indoor services within the PMRC ward were resumed from August 1, 2013.
- ii. A Physical therapy protocol developed by Physiotherapy Section for “ANTERIOR CRUCIATE LIGAMENT REPAIR” was framed and is being followed since February 2013.
- iii. Dr. Navin Kumar, Assist Prof of PMR—Member of Geriatric OPD and Screening OPD Committee.
- iv. Mr. J. Prakash, Prosthetic Technician: Coordinator of JIPMER Staff Recreation club (JSRC).

## **SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. A Shock Wave Therapy Unit was installed in Physiotherapy Section on May 13, 2013.
- ii. Multi Activity Work Station and Upper Extremity Exercise Station were installed in Occupational Therapy section on July 27, 2013.

# Physiology

## FACULTY LIST

- |                                                 |   |                                                                                                                                                              |
|-------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. PROFESSOR AND HEAD                           | : | G. K. Pal                                                                                                                                                    |
| 2. PROFESSORS<br>(FROM JULY 01, 2013)           | : | i. G. S. Gaur<br>ii. Pravati Pal                                                                                                                             |
| 3. ASSOCIATE PROFESSORS<br>(FROM JULY 01, 2013) | : | i. Vivek Kumar Sharma<br>ii. S. Velkumary                                                                                                                    |
| 4. ASSISTANT PROFESSORS                         | : | i. Y. Dhanalakshmi<br>ii. S. Karthik (From November 30, 2013)<br>iii. N. Prabu (From December 11, 2013)<br>iv. Basanta Manjari Naik (From February 20, 2014) |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Physiology is among the premier departments in JIPMER, started with the inception of the institute. The physiology department is providing medical education and training to undergraduate and postgraduate medical students, and also to the students of various paramedical courses. Also, the department is involved in clinical investigations on electrophysiological diagnostic procedures, pulmonary functions tests and autonomic function tests for hospital patients. The unique feature of the physiology department is that the electrophysiology laboratory is providing hospital services in patient management for more than 30 years. Also, research activities are conducted vigorously in various laboratories of the department. Department has a state of the art animal research laboratory. The yoga research, therapy and training are important routine features of the department. The Advanced Center for Yoga Therapy, Training, Education and Research (ACYTER) of JIPMER is under the Department of Physiology. The Department of Physiology has conducted many national conferences, CMEs and workshops in Physiology and Yoga.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

The department continues with its undergraduate UG teaching Programme (two semesters), which includes MBBS, B. Sc. (Nursing) and B. Sc. (Medical Laboratory Technology) B. Sc. (AMS)—Dialysis Technology/Medical Radiation Technology/Operation Theatre Technology/Perfusion Technology/Neurotechnology.

### *Postgraduate Courses*

These include four MD students and four M.Sc. (Medical Physiology) per year. Nine M.Sc. (Medical Biochemistry) students come to Physiology for their first year teaching Programme.



### Research Courses

Three Ph. D. scholars have submitted their synopsis and four research scholars are working under Ph. D. programme.

### Other Courses

Medical Records Technician (6 month course), Medical Records Officers (1 year course), Emergency Medical Training Course (9 months course).

## CONFERENCE AND CMES ORGANISED BY THE DEPARTMENT

Dr. G. K. Pal organized a Seminar on Translational Research on January 24, 2014, under the chairmanship of Dean (Research), at the Academic Centre, JIPMER.

## CONFERENCE AND CMES ATTENDED BY FACULTY

### Dr. G.K. Pal

#### International

- i. Participated in “International Summit on Emergency Medicine and Trauma” held at JIPMER, from February 12 to 16, 2014.

#### National

- i. Participated in the “Workshop on Bioethics for Members of the Institute Ethics Committee” on April 3, 2013, organized by Division of Research, JIPMER.
- ii. Attended a short-term course on “Molecular Techniques and their Applications” conducted by department of Veterinary Biochemistry, Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry, from May 6 to 11, 2013.
- iii. Participated in the “Telemedicine Workshop” organized by department of Plastic Surgery, JIPMER on August 16, 2013.
- iv. Attended the 2nd International and 7th Annual Conference of The Society for Wound Care and Research, organised by department of Plastic surgery, JIPMER from October 11 to 13, 2103.
- v. Attended the 59th Annual conference of Physiologists and Pharmacologists of India, held at NIMHANS, Bengaluru, from November 28 to 30, 2013, and delivered a plenary lecture on “Association of sympathovagal imbalance and cardiovascular risks in health and disease”
- vi. Delivered the Key Note Address on “Defining the role of Physiologists in Post-Genomic Era” in the inaugural ceremony of Silver Jubilee Annual Conference of Physiological Society of India, held at Kamineni Institute of Medical Sciences, Narketpally, Andhra Pradesh from December 9 to 11, 2013.
- vii. Attended the 34th Annual Conference of Indian Association of Biomedical Scientists (IABMS), held at Dr. ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani Campus, Chennai from December 27 to 29, 2013 and delivered a plenary lecture on “Effects of yoga on cardiovascular risks attributed by sympathovagal imbalance in various clinical disorders”.

### Dr. G.S. Gaur

- i. Attended and participated in the workshop on ‘Question paper setting’ on July 7, 2013 held at the Department of Medical Education JIPMER.
- ii. Attended CME and workshop on patient safety held at JIPMER, on November 23 and 24, 2013.

## Physiology

- iii. Attended the National Conference of Association of Physiologists and Pharmacologists of India the APPICON 2013 held at NIMHANS, Bangalore from November 28 to 30, 2013.
- iv. Attended and presented a research paper entitled “Somatosensory evoked potentials in healthy south India population” in 34th National Annual conference of IABMS held at University of Madras, Taramani, Chennai from December 27 to 29, 2013
- v. Attended seminar on translational research organized by division of research, JIPMER held on January 24, 2014, at the academic centre, JIPMER.
- vi. Attended and participated as delegate in International Summit on Emergency Medicine and Trauma (ISEMT) 2014 held at JIPMER, from February 14 to 16, 2014.

### Dr. Pravati Pal

#### International

- i. Participated in “International Summit on Emergency Medicine and Trauma” held at JIPMER, from February 12 to 16, 2014.

#### National

- i. Attended a short term course on “Molecular Techniques and their Applications” conducted by department of Veterinary Biochemistry, Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry, from May 6 to 11, 2013.
- ii. Participated in the “Telemedicine Workshop” organized by department of Plastic Surgery, JIPMER on August 16, 2013.
- iii. Participated in the Regional Workshop for “Sensitization and Awareness on National Medical College Network Project of Ministry of Health and Family Welfare, Government of India”, held at JIPMER on August 16, 2013.
- iv. Attended the “JIPMER Nephrology Update—2013: Hypertension” held on September 24, 2013, at JIPMER.
- v. Attended the 59th Annual conference of Physiologists and Pharmacologists of India, held at NIMHANS, Bengaluru, from November 28 to 30, 2013 and was Judge for the poster sessions.
- vi. Attended the 34th Annual Conference of Indian Association of Biomedical Scientists (IABMS), held at Dr. ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani Campus, Chennai from December 27 to 29, 2013 and evaluated the poster sessions.
- vii. Participated in the Seminar on “Translational Research” held on January 24, 2014 at Academic Centre, JIPMER.

### Dr. Vivek Kumar Sharma

- i. Participated and presented paper titled, “Comparison of Regular Unstructured Physical Training and Athletic Level Training on Body Composition and Cardio Respiratory Fitness in Adolescents” organized by APTCON 2013 at Department of Physiology, Kilpauk Medical College, Chennai on October 5 and 6, 2013 and received best oral paper presentation award.
- ii. Participated in Annual Conference cum Workshop on Biostatistics” of Indian Association of Biomedical Scientists on topic “Role of Natural Resources in Health Care” from December 26 to 29, 2014 at Dr. ALM PGIBMS, University of Madras, Taramani Campus, Chennai.
- iii. Participated in international conference as a delegate in “Sport for Development Conference: Next step 2014” organized by MAGIC BUS and United Nations Office on Sport for Development and Peace (UNOSDP) at Hotel Hilton, New Delhi from February 10 to 14, 2014.
- iv. Participated as a delegate in the conference “Globalizing traditional medicine: present and future prospects” organized by Department of Pharmacy, Sri Ramachandra University, Chennai, Tamil Nadu from March 7 to 9, 2014.

**Dr. S. Velkumary**

- i. Attended a Workshop on setting MCQ's on August 11, 2013 organised by the Department of Medical education, JIPMER.
- ii. Participated as a delegate in the "JIPMER Nephrology update-2013: Hypertension" held on September 24, 2013 at JIPMER.
- iii. Attended the "Workshop on emerging trends in neurophysiology: From Cell to System on November 26, 2013 at NIMHANS, Bengaluru.
- iv. Attended the CME on "Challenges and opportunities in medical education" on November 27, 2013 at NIMHANS, Bengaluru.
- v. Participated one day seminar on "Translational Research, held on January 24, 2014 at JIPMER.
- vi. Participated one day workshop on curriculum development and contributed in framing of curriculum for BSc Allied Medical Courses held on January 25, 2014 at JIPMER Academic Centre, JIPMER.
- vii. Participated as a delegate in the scientific programme of ISEMT 2014 (International summit on emergency medicine and trauma) held at JIPMER Puducherry from February 12 to 16, 2014.
- viii. Participated as a delegate in the CME on updates in Diabetes at HORMANIA 2014, organized by Department of Physiology, Government Dharmapuri Medical College on March 29, 2014.

**Dr. Y. Dhanalakshmi**

- i. Attended a Workshop on setting MCQ's on August 11, 2013 organised by the Department of Medical Education, JIPMER.
- ii. Participated in the 10th National Workshop on basic techniques in molecular and bioinformatics in pharmacogenomics, organised by Department of Pharmacology, JIPMER between August 26 and 31, 2013.
- iii. Attended a CME on hypertension organized by Department of Nephrology, JIPMER on September 24, 2103.
- iv. Attended a Workshop on 'Emergency trends in neurophysiology: From cell to systems,' as a participant on November 26, 2013 at NIMHANS, Bengaluru.
- v. Attended a CME on Challenges and opportunities in medical education on November 27 at NIMHANS, Bengaluru.
- vi. Participated in a seminar on "Translational research" Conducted by Department of Physiology, JIPMER on January 24, 2014.

**Dr. S. Karthik**

- i. Participated in a seminar on "Translational research" held on January 24, 2014, at JIPMER Academic Centre.
- ii. Participated in 68th National Course on Educational Technology for Teachers of Health Professionals conducted by the Department of Medical Education from February 20 to March 1, 2014 in JIPMER.

**Dr. N. Prabhu**

- i. Participated in a seminar on "Translational research" held on January 24, 2014, at JIPMER Academic Centre.
- ii. Participated in 69th National Course on Educational Technology for Teachers of Health Professionals conducted by the Department of Medical Education from March 6 to 16, 2014 in JIPMER.
- iii. Participated in CME on "Recent Updates in the Management of Diabetes" conducted by Government Medical College, Dharmapuri on March 29, 2014.

**Dr. Basanta Manjari Naik**

- i. Attended and presented a poster entitled “Immunometabolism as a Key Culprit Behind Chronic Complications in Obesity: A Review” in the CME on “Biochemical Insight Into Clinical Immunology” and the 1<sup>st</sup> Chapter of Association of Medical Biochemist of India Chhattisgarh State: at AIIMS, Raipur on March 21 and 22, 2014.

**Research Projects**

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From... To...)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (completed in FY 2012–2013 or ongoing)
1.	Dr. G. K. Pal	Effect of yoga on cardiovascular risks in first degree relatives of hypertensives and type 2 diabetics	1 year (2013–2014)	Intramural	ACYTER	Ongoing
2.	Dr. G. S. Gaur	Effect of eye closure and frequency on variability of flash visual evoked potentials in healthy young subjects.	2 years (2012–2014)	None	Neurology, JIPMER	Ongoing
3.	Dr. Vivek Kumar Sharma	Association of anthropometric, cognitive, cardiovascular and pulmonary functions in athlete and non athlete adolescents	1 year (2013–2014)	Non funded		On going
4.	Dr. Vivek Kumar Sharma	Association of cardiovascular autonomic function and aerobic capacity with insulin resistance and inflammatory markers in non diabetic first degree relatives of type 2 diabetes	1 year (2013–2014)	Intramural funds ₹1,10,600	Biochemistry Medicine	On going
5.	Velkumary S	Assessment of cardiovascular Autonomic functions and inflammatory biomarkers in patients with psoriasis.	2 years (2013–2015)	Intramural fund. ₹2 lakhs	Dermatology, Microbiology	Ongoing
6.	Y Dhanalakshmi	Assessment of association of cardiovascular autonomic function, oxidative stress, inflammatory markers and metabolic parameters in patients with fibroid uterus.	1 and half years	Intramural fund. ₹1,00,000 granted.	Biochemistry, Obstetrics and Gynaecology.	JSAC and ethics approval obtained.

## PUBLICATIONS

### Journals

1. Hari KB, Pal P, Pal GK, Balachander J, Jayasettiaseelon E, Sreekanth S, Sridhar MG, Gaur GS. Effect of yoga therapy on heart rate, blood pressure and cardiac autonomic function in heart failure. *J. Clin. Diag. Res.* 2014; 1: 14–16. (IF: 0.14)
2. Hari KB, Pal P, Pal GK, Balachander J, Jayasettiaseelon E, Sreekanth S, Sridhar MG, Gaur GS. Yoga training in heart failure (NYHA I-II) reduces oxidative stress and inflammation. *J. Exer. Physiol.* 2014; 17(1): 10–18.
3. Hari KB, Pal P, Pal GK, Balachander J, Jayasettiaseelon E, Sreekanth S, Sridhar MG, Gaur GS. A randomized controlled trial to study the effect of yoga therapy on cardiac function and N-terminal pro BNP in heart failure. *Int. Med Insights* 2014; 9: 1–6.
4. Hari KB, Pal P, Pal GK, Balachander J, Jayasettiaseelon E, Sreekanth S, Sridhar MG, Gaur GS. Yoga improves quality of life and functional capacity in heart failure patients. *Biomed. Res.* 2014; 25(2): 178–182.
5. Dinesh T, Gaur GS, Sharma VK, Madanmohan, Harichandrakumar KT, Grrishma B. “Effect of 6 Weeks of Kapalabhati pranayama training on peak expiratory flow rate in young healthy volunteers”. *Scholars Acad. J. Biosci.* 2013; 1(4): 111–114.
6. Dinesh T, Gaur GS, Sharma VK, Velkumary S, Bhavanani AB. “Effect of 12 weeks of Kapalabhati pranayama training on cardio-respiratory parameters in young healthy volunteers of JIPMER population”. *Int. J. Med. Pharmaceutical. Sci. Res. Rev.* 2013; 1(4): 53–61.
7. Gaur GS, Madanmohan, Bhavanani AB, Subramanian SK. “Effect of yoga on cardio-respiratory functions”. *Biomedicine* 2013; 22(2): 182–186.
8. Gaur GS, Srinivasa RR, Subramanian SK. “Acute effect of unilateral and bilateral nostril breathing on sympathovagal balance in yoga practitioners and healthy male volunteers”. *Int. J. Physiol.* 2013; 1(2): 112–116.
9. Grrishma B, Gaur GS, Velkumary S, Gurunandan U, Aswini D, Dinesh T. “Comparison of head and foot reaction times among females – a methodological study using recognition auditory reaction time”. *Int. J. Curr. Res.* 2013; 5(12): 4272–4274.
10. Indumathy J, Pal GK, Pal P, Ananthanarayanan PH, Parija SC, Balachander J, Dutta TK. Association of sympathovagal imbalance with obesity indices, and abnormal metabolic biomarkers and cardiovascular parameters. *Obes. Res. Clin. Prac.* 2014. Available online 28.02.14 (IF:0.556)
11. Karpagam S, Gaur GS, Madanmohan T, Subramanian SK. “Comparative Study of effect of slow and fast suryanamaskar on work load of heart in normal human subjects”. *Int. J. Physiol.* 2013; 1(2): 166–169.
12. Lalitha V, Pal GK, Parija SC, Pal P, Sathishbabu M, Indumathy J. Effect of gender on food intake adiposity, and immunological responses following lesion of ventromedial hypothalamus in albino Wistar rats. *Int. J. Clin. Exp. Physiol.* 2014; 1(1): 44–50.
13. Pal GK, Adithan C, Ananthanarayanan PH, Pal P, Nanda N, Durgadevi T, Lalitha V, Syamasunder AN and Dutta TK. Sympathovagal imbalance contributes to prehypertension status and cardiovascular risks attributed by insulin resistance, inflammation, dyslipidemia and oxidative stress in first degree relatives of type 2 diabetics. *PLoS ONE* 2013; 8 (11): e78072. doi:10.1371/journal.pone.0078072. (IF: 3.730)
14. Pal GK, Adithan C, Ananthanarayanan PH, Pal P, Nanda N, Thiagarajan D, Syamasunder AN and Venugopal L and Dutta TK. Association of sympathovagal imbalance with cardiovascular risks in young prehypertensives. *Am. J. Cardiol.* 2013; 112(11): 1757–1762. (IF: 3.408)
15. Pal GK, Adithan C, Dutta TK, Pal P, Nivedita N, Lalitha V and Amudharaj D. Preference of salt contributes to sympathovagal imbalance in the genesis of prehypertension. *Eur. J. Clin. Nutr.* 2013; 67: 586–591. (IF: 2.462)

16. Pal GK, Ganesh V, Karthik S, Nanda N, Pal P. The effect of short-term relaxation therapy on indices of heart rate variability and blood pressure in young adults. *Am. J. Health Prom* 2013; PMID 24200249 (IF: 2.370)
17. Pal GK, Pal P, Nanda N, Amudharaj D, Adithan C. Cardiovascular dysfunctions and sympathovagal imbalance in hypertension and prehypertension. *Fut. Cardiol.* 2013; 9: 53–69.
18. Pal GK, Pal P, Nivedita N, Lalitha V, Dutta TK and Adithan C. Sympathovagal imbalance in young prehypertensives: importance of male-female difference. *Am. J. Med. Sci.* 2013; 345: 10–17. (IF: 1.391)
19. Pal GK, Adithan C, Ananthanarayanan PH, Pal P, Nanda N, Durgadevi T, Lalitha V, Syamasunder AN and Dutta TK. Effect of gender on sympathovagal imbalance, prehypertension status and cardiovascular risks in first degree relatives of type 2 diabetics. *Am. J. Hypertens.* 2014; 27(3): 317–324. (IF: 3.665)
20. Pal GK, Ankit A, Karthik S, Pal P, Nanda N. Slow yogic breathing through right and left nostril influences sympathovagal balance, heart rate variability and cardiovascular risks in young adults. *N. Am. J. Med. Sci.* 2014; 6(3): 38–44.
21. Pal GK. Need for more research and publication in clinical and experimental physiology. *Int. J. Clin. Exp. Physiol.* 2014; 1 (1): 1–2.
22. Prabhakar P, Gaur GS, Narayanan SK. “Study of evoked potentials in central demyelinating disorders versus nondemyelinating disorders”. *Intl. J. Physiol.* 2013; 1(2):86–90.
23. Rajajeyakumar M, Amudharaj D, Hari KB, Madanmohan T, Jeyasettiaseelon E, Bhavanani AB. Immediate effect of different pranayam on short-term heart rate variability in health care students. A preliminary study. *Int. J. Physiol.* 2014; 2 (1): 39–43.
24. Rao BN, Pal GK, Pal P. Effect of subcutaneous injection of estradiol on feeding and drinking behaviours and body weight in basolateral amygdaloid lesioned rats. *Ann. Neurosci.* 2013; 20 (4): 139–144.
25. Saranya K, Pal GK, Habeebullah S and Pal P. Assessment of cardiovascular autonomic functions in patients with polycystic ovarian syndrome. *J. Obst. Gyne. Res.* 2014; 40(1): 192–199. (IF: 0.841)
26. Sharma VK, Madanmohan T, Velkumary S, Rajajeyakumar M, Bhavanani AB, Sahai A. Effect of fast and slow pranayama on perceived stress and cardiovascular parameters in young health-care students. *Int. J. Yoga.* 2013; 6(2): 104–110.
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## **PATIENT CARE SERVICES**

### **Laboratory**

<b>1. Electrophysiology laboratory</b>	
i. Nerve conduction studies	74
ii. F-wave studies	27
iii. H-reflex studies	5
iv. Electromyography	16
v. Brainstem Auditory Evoked Response	1
vi. Visual Evoked Potential	34
vii. Somato Sensory Evoked Potential	8
<b>2. Autonomic Function Test Laboratory</b>	
i. Autonomic Function Tests	132
ii. Tilt Table Tests	32
<b>3. Pulmonary Function Tests</b>	<b>318</b>

## **AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS**

### **Dr. G. K. Pal**

- i. Editor-in-Chief of International Journal of Clinical and Experimental Physiology
- ii. Programme-Director of Advanced Centre of Yoga Therapy, Education and Research at JIPMER
- iii. Editor (Physiology) of Indian Journal of Physiology and Pharmacology
- iv. Vice-President of Indian Association of Biomedical Scientists for 2013 to 2015.
- v. Vice-President of Federation of Indian Physiological Societies of India (FIPS) for a tenure of 3 years from 2013 to 2015.
- vi. Vice-President of South Asian Association of Physiologists (SAAP) from 2013 to 2015.

### **Dr. G. S. Gaur**

- i. Nominated as reviewer for the International Journal of Advanced Medical Research during this period.

### **Dr. Pravati Pal**

- i. Appointed as Section Editor (Basic, Applied and Preventive Physiology) of International Journal of Clinical and Experimental Physiology
- ii. Appointed as Section Editor (Basic Medical Sciences) of International journal of Advanced Medical Research
- iii. Associate Editor of Indian Journal of Physiology and Pharmacology

## **ADMINISTRATIVE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### ***Dr. G. K. Pal***

- i. Programme-Director of ACYTER.
- ii. Member-Secretary of Institute Bio-Safety Committee (IBSC)
- iii. Member-Secretary of JIPMER Scientific Advisory Sub-Committee (JSASC)
- iv. Member of JIPMER Scientific Advisory Committee
- v. Member of JIPMER Ph. D. Research Monitoring Committee
- vi. Member of JIPMER PG Research Monitoring Committee
- vii. Member of the Committee for Phase III project work of JIPMER
- viii. Member of JIPMER Departmental Book Purchase Committee
- ix. Member of JIPMER Departmental Journal Purchase Committee
- x. Chairman—Committee for Condemnation of old and obsolete books in the central library of JIPMER
- xi. Member of JIPMER Staff Canteen Management Committee
- xii. Member of JIPMER News and Annual Report Committee.
- xiii. Faculty-in-Charge/Coordinator for implementation of Memorandum of Understanding between JIPMER and Sri Aurobindo Society
- xiv. Member in the Committee for implementation of Obama-Singh initiative Research Project
- xv. Member for implementation of Research in Complementary Medicine under AYUSH
- xvi. Chairman of Reception Committee for JIPMER Convocation, 2013
- xvii. Chairman of Prize Committee of SPANDAN, 2013
- xviii. Member of Editorial Board of Biomedicine, the Journal of Indian Association of Biomedical Scientists
- xix. Officer In-charge of departmental PG programme and Ph.D. Programme.
- xx. Member of the advisory board of International journal of Advanced Medical Research
- xxi. Member of the International advisory board of Al-ameen journal of Medical Sciences (indexed in pubmed)
- xxii. Examiner for DNB courses in Physiology at National Board of Examinations, New Delhi.
- xxiii. Member of selection committee for Ph D scholars and the committee for deciding course Curriculum for MD and Ph D courses in Rajeev Gandhi University of Health Sciences, Bangalore, Karnataka.
- xxiv. Guided one M. Sc. and three M. D. students and was co-guide for six Ph D students during this period.
- xxv. Reviewer for Indian Journal of Experimental Biology, Medical Science Monitor, Japanese Journal of Physiology, Brain Research, Journal of Applied Physiology, Journal of Applied Research, Journal of Basic and Clinical Autonomic Research, International Journal of Vascular Medicine, International Journal of Endocrinology, Journal of Physiology and Journal of Applied Physiology.
- xxvi. Examiner for M. B. B. S., M. D. and Ph D courses in Tamilnadu Dr. M. G. R. Medical University, Rajeev Gandhi University of Health Sciences, Bangalore, Annamalai University, Chidambaram, Pondicherry University and medical colleges in Orissa, Maharashtra, Kerala, Gujarat and West Bengal.
- xxvii. Recognized Ph. D. guide

### ***Dr. G. S. Gaur***

- i. Guided two MD students for their thesis projects and was co-guide for one Ph D scholar during this period.
- ii. Examiner for M.B.B.S, MD and PhD courses in Tamil Nadu Dr. MGR Medical University, Sathyabama University Chennai, Rajiv Gandhi University Health Sciences, Bangalore, Annamalai University, Chidambaram, Tamil Nadu and Pondicherry University
- iii. Officer in-charge for condemnation of obsolete and unserviceable items for JIPMER outpatient department of JIPMER.



- iv. Continue to work as Officer in-charge of Electrophysiology Laboratory of the department
- v. Continue to work as Officer-in-overall-charge (OIOC) for Hindi teaching scheme (HTS) at JIPMER for Pondicherry region
- vi. Secretary of Town Official Language Implementation Committee (TOLIC) of Puducherry
- vii. Member of JIPMER Quality Council (JQC)
- viii. Continued to work as Nodal Officer for Fire Safety for Academic Centre JIPMER

### **Dr. Pravati Pal**

- i. Member of JIPMER Annual Report/ Research Framework Document (RFD)/ JIPMER's input for Ministry's Annual Report Committee
- ii. Member of JIPMER Equipment Requirement Review Committee (ERRC)
- iii. Officer-in-Charge for condemnation of obsolete and unserviceable items of JIPMER horticulture department.
- iv. Officer-in-Charge for Cardiovascular Research Laboratory and Animal Research Laboratory of the department
- v. Officer In-Charge of Department Store
- vi. Faculty-in-charge of First MBBS and First M. Sc. (Medical Physiology and Medical Biochemistry) course of the department
- vii. Guided six Ph D students and one M.D. student and was Co-guide for one M.D. and one M.Sc. student
- viii. Reviewer for Indian Journal of Physiology and Pharmacology, International journal of Clinical and Experimental Physiology, International journal of Advanced Medical Research, Biomedicine and Al-Ameen journal of Medical Sciences
- ix. Examiner for M.B.B.S., M.D. and Ph D courses in Tamilnadu Dr. M. G. R. Medical University, Rajeev Gandhi University of Health Sciences, Bangalore, Annamalai University, Chidambaram, Pondicherry University, and Calcutta University
- x. Recognized Ph. D. guide

### **Dr. Vivek Kumar Sharma**

- i. Examiner for various paramedical and M.B.B.S courses in JIPMER and Pondicherry University.
- ii. Acting as Guide for one MD student and Co-Guide for one MD student in the dissertation work
- iii. Officer In-charge for B.Sc. AMS Courses and Emergency Medicine Technician course (EMTC) of the department
- iv. Member of Publicity committee formed for organizing Annual Convocation in JIPMER
- v. In charge for assessment of laboratory assistants' training program for the department of Physiology
- vi. In charge for Pulmonary function test laboratory of the department

### **Dr. S. Velkumary**

- i. Examiner for various paramedical, M.B.B.S, and M.Sc courses in JIPMER and Pondicherry University.
- ii. Guide for one MD student and co guide for one M.D student during this period.
- iii. Faculty -in-charge for B.Sc. MLT and AMS courses of the department
- iv. Officer -in -charge for obesity research laboratory of the department.
- v. Member of JIPMER student counselling committee.

### **Dr. Y. Dhanalakshmi**

- i. Officer in- charge of Library (2013 onwards), and M.R.T & M.R.O 2012-2013 batch.
- ii. Officer in- charge of EMTC course of the department.
- iii. Nodal officer for the department website information.

## Physiology

- iv. Member of JIPMER student counselling committee.
- v. Guide for MSc. Medical physiology 2nd year student.
- vi. Officer in-charge of Molecular physiology lab.

### **Dr. S. Karthik**

- i. In-charge of Autonomic Function Test Laboratory

### **Dr. N. Prabhu**

- i. Appointed as external examiner for I BDS at Sri Balaji Vidyapeeth University on January 28, 2014
- ii. Appointed as external examiner for I MBBS at Pondicherry University on February 18, 2014
- iii. Accompanying with the I MBBS students for undergraduate Intercollege quiz competition “HOR MANIA” Conducted by Government Dharmapuri Medical College on March 29, 2014, Life member of National Teacher Training Centre, JIPMER
- iv. In-charge of Cardiovascular Research Laboratory of the department.

### **Dr. Basanta Manjari Naik**

- i. In-charge for Animal Research Laboratory of the department.

## **SIGNIFICANT EVENTS IN THE DEPARTMENT**

### **Visiting Professors to Physiology Department**

- i. Dr. Rajesh Katare, Director of Cardiovascular and Diabetes Division, Department of Physiology, University of Otago, Dunedin, New Zealand, visited Department of Physiology, JIPMER as Visiting Professor on January 2, 2014. Dr. Katare is specialized in molecular cardiology and stem cell research related to cardiovascular problem in diabetes. During his visit discussion was made on possible collaboration of multicentric research with University of Otago involving micro-RNA micro-Array assay and cardiac myocyte regeneration in chronic diabetes and hypertension.
- ii. Mrs. Hanna Drechsel, Director of GIUMA, a yoga center in Germany, and yoga specialist visited Department of Physiology, JIPMER as a visiting faculty on January 13 (Monday), 2014 to explore the possibility of collaboration of JIPMER with GIUMA on yoga research and training. She delivered a lecture to the staff, students and faculty of Department of Physiology and ACYTER, and discussed about the possible areas of collaboration.
- iii. Mr. Buddhanand, Director of International Society for Scientific Development of India, visited Department of Physiology on January 8th and delivered a guest lecture on “Role of spirituality in the development of Science in India” to the staff, students and faculty of Department of Physiology and ACYTER, which was held in the Seminar Room of Physiology Department.
- iv. Dr. Rajesh Thimmulappa, Asst. Scientist, John Hopkins University, Maryland, USA, visited Department of Physiology on January 23 and interacted with students and faculty of Department of Physiology and ACYTER, for possible areas of research collaboration.

# Plastic Surgery

## FACULTY LIST

- |                                  |   |                       |
|----------------------------------|---|-----------------------|
| 1. ADDITIONAL PROFESSOR AND HEAD | : | Ravi Kumar Chittoria  |
| 2. ASSOCIATE PROFESSOR           | : | Dinesh Kumar S.       |
| 3. ASSOCIATE PROFESSOR           | : | Devi Prasad Mohapatra |
| 4. ASSOCIATE PROFESSOR           | : | Friji M.T.            |

## BACKGROUND INFORMATION OF THE DEPARTMENT

Department is fully equipped for Hand and Microvascular Surgery, Transplantation Surgery, Laser Surgery, Maxillofacial and Craniofacial Surgery, Burns and Reconstructive Surgery, Anti-aging and Regenerative Medicine Therapy, Wound Simulators Surgery, Telemedicine Services and is Centre for Advanced Wound Care using newer Wound Care Technologies like Autologous Platelet Rich Plasma Therapy (APRPT), Autologous Lipo Aspirate Therapy (ALAT), Regulated Oxygen Negative Pressure Wound Therapy (RONPWT), Trans Cutaneous Oxygen Therapy (TCOT), Autologous Bone Marrow Aspirate Therapy (ABMAT), Limited Access Dressing (LAD), Growth Factors, Nanocrystalline Silver (NCS) Dressing, Collagen Dressings, Hydrojet Debridement etc. Department has a state of an Art 20 Bedded JIPMER Tertiary Burn Centre (JTBC) (including Burn ICU and Burn OT), Microvascular Training Lab, Speech Therapy Training Lab, Wound Simulator Lab, Telemedicine Centre and Tissue and Skin Bank. Department has “Smile Train Project” and M.Ch Plastic Surgery Course (2 Seats every year).

## EDUCATIONAL COURSES

### Undergraduate Courses

- i. The Department continues with its undergraduate teaching program. It holds regular classes for undergraduate MBBS students.
- ii. B.Sc. (Nursing) 6th semester students are given regularly bed side training in the Plastic Surgery Ward.
- iii. B.Sc. (Medical OT Technologist) 3rd semester students are given Practical and bed side training in the Plastic Surgery OT for a period January to May 2014.
- iv. Post Basic Diploma Students (Operation Room Nursing) are given Practical Training in Plastic Surgery OT.
- v. Post Basic Diploma Students (ICU Nursing) are given Practical Training in Plastic Surgery ICU.
- vi. Telemedicine and Medical Tourism Classes for MRO Trainees.

### Postgraduate Courses

- i. The faculties were involved in teaching and training of Junior Resident (Postgraduate) students of MS General Surgery, Orthopedic Surgery, Dermatology and Ophthalmology during their peripheral posting in the department of Plastic Surgery by giving didactic lectures, moderating seminars, journal clubs, etc. and clinical teaching during ward rounds.

### Higher Specialty Courses

The Department continues with its Higher Specialty Teaching program. It holds regular classes for M.Ch students.

### CONFERENCES AND CMES ORGANIZED BY DEPARTMENT

- i. Organized “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.
- ii. Organized “3rd PPSC Meet” on July 13, 2013 in Seminar Room of Plastic Surgery Department, SSB JIPMER.
- iii. On July 13, 2013 Organized “Doctor’s Day” in Seminar Room of Plastic Surgery SSB JIPMER.
- iv. On July 13, 2013 Organized “Filariasis Day” and Distributed free Ant-filarial drugs, held case presentation and Journal Presentation in Seminar Room of Department of Plastic Surgery, SSB JIPMER.
- v. On July 13, 2013 Organized Plastic Surgery Day in Seminar Room of Plastic Surgery SSB JIPMER and Felicitated Dr. S. Mohan HOD Department of Plastic Surgery GH Puducherry for his outstanding patient care services.
- vi. Organized “4th PPSC Meet” on August 5, 2013 in Seminar Room of Plastic Surgery Department, SSB JIPMER.
- vii. Organized Seminar on “Organ Donation” on August 5, 2013 in Seminar Room of Plastic Surgery SSB JIPMER.
- viii. Organized Seminar on “Fresher’s Day” for M.Ch Residents on August 5, 2013 in Seminar Room of Plastic Surgery SSB JIPMER.
- ix. Organized Ministry of Health and Family Welfare Sponsored “NMCN Project Telemedicine Workshop” on August 16, 2013 in SSB Conference Hall, JIPMER.
- x. Organized “2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.
- xi. Organized Guest Lecture by International Faculty Dr. Maurice (France) on March 10, 2014 in Pasteur Theatre JIPMER.
- xii. Organized “2nd JIPMER Sushruta Oration” on March 28, 2014 in SSB Conference Hall, JIPMER.
- xiii. Organized Seminar on Topic: “Pressure Sore” in Seminar Room of Department of Plastic Surgery.
- xiv. Organized Seminar on Topic: “Chest Wall Reconstruction” in Seminar Room of Department of Plastic Surgery.
- xv. Organized Seminar on Topic: “Dupytren’s Contracture” in Seminar Room of Department of Plastic Surgery.
- xvi. Organized Seminar on Topic: “Congenital Hand anomalies Part I” in Seminar Room of Department of Plastic Surgery.
- xvii. Organized Seminar on Topic: “Ventilators/ABG/Regional Blocks” in Seminar Room of Department of Plastic Surgery.
- xviii. Organized Seminar on Topic: “Hypospadias and Intersex Part I” in Seminar Room of Department of Plastic Surgery.
- xix. Organized Seminar on Topic: “Nutrition in Burns” in Seminar Room of Department of Plastic Surgery.
- xx. Organized Seminar on Topic: “Acute Burns Part 1” from Medical Virtual Class Room (VCR), Pasteur Theatre to NKN Connected Centres with VC facilities.
- xxi. Organized Seminar on Topic: “Volkman Ischemic Contracture” from Medical Virtual Class Room (VCR), Pasteur Theatre to NKN Connected Centres with VC facilities.
- xxii. Organized and Live Telecasted from Medical Virtual Class Room (VCR), Pasteur Theatre to NKN Connected Centres with VC facilities, Seminars on, between April 2013 and March 2014.

## **CONFERENCES, WORKSHOP AND CMES ATTENDED BY FACULTY**

### ***Dr. Ravi Kumar Chittoria***

#### **Conferences, Workshop and CMEs Attended**

- i. Attended Workshop on “Purchase Procedures” in Conference Hall, SSB, JIPMER on April 6, 2013.
- ii. Attended the conference “MEDICON-2013” from April 12 to 14, 2013 at New Delhi.
- iii. Attended the “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.
- iv. Attended Seminar on “Nutrition for Burns and Chronic Wounds” in Seminar Room of Plastic Surgery Department on April 27, 2013.
- v. Attended the “Telemedicine Workshop” on August 16, 2013 in SSB Conference Hall, JIPMER.
- vi. Attended workshop on Patient Safety and Quality Control in November 23–25, 2013 in JIPMER Auditorium.
- vii. Attended the conference “2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.
- viii. Attended “Webinar” on “Pressure Ulcers” Organized by “Molnlycke Health Care” on November 21, 2013.
- ix. Attended Interactive Online Seminar on “Online Learning” Organized by University of Liverpool, UK on December 19, 2013.
- x. Attended Authors Publisher Meet 2014 on January 18, 2014 in JIPMER Puducherry.
- xi. Attended Seminar on “Operational Research” Organized by “Division of Research, JIPMER” on January 24, 2014 at NTTTC Seminar Hall, JIPMER Academic Centre.
- xii. Attended Workshop on “Airway Management” on February 12, 2014 in JIPMER Academic Centre.
- xiii. Attended Workshop on “Leadership in Emergency Medicine” on February 13, 2014 in JIPMER Academic Centre.
- xiv. Attended “Webinar” on “Uncovering the Mechanisms of Fibrosis during Wound Healing” on February 14, 2014.
- xv. Attended the Conference “International Summit on Emergency Medicine and Trauma (ISEMT) 2014”, February 14–16, 2014, JIPMER, Puducherry.

#### **Paper Presented in Conferences and CMEs**

- i. Delivered Lecture: “Pre-Op Preparation of Patient and Post-Op Advice to Patients” in “Laser Dermato Surgery Course, CME and Workshop” held on April 19, 2013 in Plastic Surgery Laser OT in Minor OT Complex SSB, JIPMER.
- ii. Delivered Lecture: “Laser Proforma and Record of Patient” in “Laser Dermato Surgery Course, CME and Workshop” held on April 19, 2013 in Plastic Surgery Laser OT in Minor OT Complex SSB, JIPMER.
- iii. Delivered Lecture: “Cooling for Laser surgery” in “Laser Dermato Surgery Course, CME and Workshop” held on April 19, 2013 in Plastic Surgery Laser OT in Minor OT Complex SSB, JIPMER.
- iv. Delivered Lecture: “Understanding Aviation Medicine” on July 8, 2013 in Conference Hall SSB JIPMER.
- v. Presented a paper: “Telemedicine Experience at JIPMER” on August 16, 2013 in SSB Conference Hall, JIPMER in “NMCN Project Telemedicine”.
- vi. Delivered Lecture: “Telemedicine, e-Learning and Digital Library” in September 2013 for “DM/M. Ch Orientation Programme” held at NTTTC Hall JIPMER.
- vii. Presented a paper: “Guided By Wound, Guiding the Wound” in “2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.

## Plastic Surgery

- viii. Presented a paper: “Wound Dressing by Aseptic Technique” in 2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013 from October 11 to 13, 2013 in JIPMER Auditorium.
- ix. Presented a paper: “e-Wound Care” in 2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013 from October 11 to 13, 2013 in JIPMER Auditorium.
- x. Delivered Guest Lecture: “Telemedicine @ JIPMER” in December 2013 at Conference Hall SSB JIPMER for JIPMER Scientific Society (JSS) Monthly Meet.
- xi. Delivered Lecture on “Telemedicine Activities in JIPMER” on January 10, 2014 in “Brain Storming Session on Central Asia e-Network” held in New Delhi Organized by CDAC, New Delhi.
- xii. Attended “Workshop on Curriculum Development” for B.Sc. Operation Theatre Technology held on January 25, 2014 at Academic Centre JIPMER.
- xiii. Delivered Guest Lecture: “Sutures and Techniques of Suturing” in SSB OPD Block in February 2014.
- xiv. Delivered Guest Lecture: Networking the Apex Institutions: Review of each institution’s digital capacities in telemedicine and online learning. What are the possibilities and barriers to a common MPH curriculum across the Apex institutions? On March 11, 2014 at NTTC Hall JIPMER Academic Centre in a Programme: Transforming Public Health Education in India: A collaboration between the Indian Ministry of Health and Family Welfare, JIPMER and the new AIIMS Institutions, and Havard School of Public Health.

### Chaired Scientific Session in Conference/Workshop/CME

- i. Chaired Scientific Session in “Laser Dermato Surgery Course, CME and Workshop” held on April 19, 2013 in Plastic Surgery Laser OT in Minor OT Complex SSB, JIPMER.
- ii. Chaired Scientific Session in “NMCN Project Telemedicine Workshop” on August 16, 2013 in SSB Conference Hall, JIPMER.
- iii. Chaired Scientific Session in “2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.

### Demonstrated Procedure in Conference/Workshop

- i. Demonstrated: “Parts of LASER Cooling system” in “Laser Dermato Surgery Course, CME and Workshop” held on April 19, 2013 in Plastic Surgery Laser OT in Minor OT Complex SSB, JIPMER.
- ii. Demonstrated: “Parts of IPL Machine” in “Laser Dermatosurgery Course, CME and Workshop” held on April 19, 2013 in Plastic Surgery Laser OT in Minor OT Complex SSB, JIPMER.
- iii. Demonstrated: “Dermatosurgery Procedure by IPL” in “Laser Dermato Surgery Course, CME and Workshop” held on April 19, 2013 in Plastic Surgery Laser OT in Minor OT Complex SSB, JIPMER.

### Course/Training Programme Completed

- i. Completed 3 months online course on “Fundamentals of Clinical Trials” from HARVARD University, UK in February 2014.

### Dr. Devi Prasad Mohapatra

#### Conferences and CMEs Attended

- i. Attended the “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.
- ii. Attended the Annual conference of the National Seminar on Road Traffic Accident—Salvaging the Victim August 17–18, 2013 at Bhubaneswar.
- iii. Attended the Humanitarian Project in Plastic Surgery in Israel and Gaza with the Medecins Sans Frontiers, for the period from June 1 to June 30, 2013.

- iv. Attended workshop on Patient Safety and Quality Control in November 23–25, 2013 in JIPMER Auditorium.
- v. Attended the free Plastic Surgery Camp at Salaja Hospital Vijayawada from January 26 to February 1, 2014.
- vi. Attended the conference “International Summit on Emergency Medicine and Trauma (ISEMT) 2014”, February 12–16, 2014, JIPMER, Puducherry.

#### Chaired a Session

- i. Chaired Scientific Session: “In 2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.

#### Demonstrated a Session

- i. Demonstrated a Session: “Diode LASER Dermatosurgery” in “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.
- ii. Demonstrated a Session: “Skin Cooling in LASER Surgery” in “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.

#### *Dr. Friji M.T.*

##### Conferences and CMEs Attended

- i. Attended the “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.
- ii. Attended the “Telemedicine Workshop” on August 16, 2013 in SSB Conference Hall, JIPMER.
- iii. Attended the conference “2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.
- iv. Attended the ISAPS Conference 2014, Advancing the Aesthetic Surgery Education Conference, from January 16–19, 2014 at Jaipur.
- v. Attended the conference “International Summit on Emergency Medicine and Trauma (ISEMT) 2014”, February 12–16, 2014, JIPMER, Puducherry.

##### Chaired a Scientific Session

- i. Chaired Scientific Session: “In 2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.

##### Demonstrated a Session

- i. Demonstrated a Session: “LASER Safety” in “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.

##### Course/Training Programme

- i. Completed 3 months online course on “Fundamentals of Clinical Trials” from HARVARD University, UK in February 2014.
- ii. Completed online source Naotechnology: The Basics from Rice University with Distinction.

#### *Dr. Dinesh Kumar S.*

##### Conferences and CMEs Attended

- i. Attended the “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2013 in Minor OT Complex, SSB, JIPMER.
- ii. Attended the “Telemedicine Workshop” on August 16, 2013 in SSB Conference Hall, JIPMER.
- iii. Attended the “Telemedicine Workshop” on August 16, 2013 in SSB Conference Hall, JIPMER.
- iv. “AOCMF Advanced Seminar on Tissue Engineering and Research Methodology” November 14–16, 2013.

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- v. Attended the conference “2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.
- vi. Attended the Amrita Hands-On Surgical Skill Enhancement Programme—2014, from January 31 to February 2, 2014, at Kochi.

### Chaired a Session

- i. Chaired Scientific Session: “In 2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.

### Demonstrated a Session

- i. Demonstrated a Session: “Setting a LASER Unit” in “LASER Dermatosurgery Course, CME and Workshop” on April 19, 2103 in Minor OT Complex, SSB, JIPMER.

### Course/Training Programme

- i. Completed 3 months online course on “Fundamentals of Clinical Trials” from HARVARD University, UK in February 2014.

## Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From ... To...)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2013–2014 or Ongoing)
1.	Manju Mohan	Association of cleft lip and palate with handedness among patients with cleft lip and palate in South Indian Population	3 years	None	ENT	Completed
2.	Dr. Friji M.T.	Effect of stromal vascular fraction of lipoaspirate on tissue regeneration in patients with atrophic rhinitis—A double blind randomized control trial	3 years	None	Pathology/ENT	Ongoing
3.	Dr. Friji M.T.	Physical and psychosocial burden in individuals with deformity due to burn injury	3 years	Nil	Biostatics	Ongoing
4.	Dr. Dinesh Kumar S.	(i) Profile, quality of life and general health status of patients with scars	3 years	Nil	None	Ongoing
5.	Dr. Dinesh Kumar S.	(ii) Acceptability of hand transplantation in patients with acquired loss or deformity of hand	3 years	Nil	None	Ongoing



6.	Dr. Devi Prasad Mohapatra	Epidemiology of hand injuries in pediatric Population in JIPMER	1 year	Nil	None	Ongoing
7.	Dr. Ravi Kumar Chittoria	Cleft lip and plate anomaly in India: Clinical profile, risk factors and current status of treatment: A hospital based study	5 years	ICMR (to be sanctioned)	None	Ongoing

## PUBLICATIONS

### Journals

#### *Dr. Ravi Kumar Chittoria*

1. Chittoria RK. Role of Infection Imaging (Technetium 99m-Ciprofloxacin Scintigraphy) in Chronic Non-Healing Diabetic Foot ulcer in JSWCR 2013, 5(1): 40–43.
2. Chittoria RK. Utility of Bone Scintigraphy and 18 F FDG PET CT to rule out Osteomyelitis in a case of Electrical Burn in JSWCR 2013, 5(1): 46–47.
3. Chittoria RK. “Guided By Wound, Guiding the Wound” in Abstract Book of “Wound Care Con 2013”, 38. ISBN No:-978-81-905686-3-0.
4. Chittoria RK. “e-Wound Care” in Abstract Book of “Wound Care Con 2013”, 38. ISBN No:-978-81-905686-3-0.
5. Chittoria RK. “Wound Dressing By Aseptic Technique” in Abstract Book of “Wound Care Con 2013”, 38–39. ISBN No:-978-81-905686-3-0.
6. Chittoria RK. “Transdermal Continuous Oxygen Therapy (TCOT)—An Adjuvant to Treatment of Complex Wounds” in Abstract Book of “Wound Care Con 2013”, 45–46. ISBN No:-978-81-905686-3-0.
7. Chittoria RK. “Role of Telemedicine in Plastic Surgery Emergencies And Follow—Up” in Abstract Book of “Wound Care Con 2013”, 46. ISBN No:-978-81-905686-3-0.
8. Chittoria RK. “Role of Autologous Platelet Rich Plasma In Wound Care” in Abstract Book of “Wound Care Con 2013”, 47. ISBN No:-978-81-905686-3-0.
9. Chittoria RK. “Role of Collagen Dressings In Wound Care” in Abstract Book of “Wound Care Con 2013”, 47. ISBN No:-978-81-905686-3-0.
10. Chittoria RK. “Application of Jet Lavage Technique of Wound Debridement in Wound Healing” in Abstract Book of “Wound Care Con 2013”, 53. ISBN No:-978-81-905686-3-0.
11. Chittoria RK. “Study of deoxyribonucleic acid (DNA) damage in children with orofacial clefts” in *Curr. Pediatr. Res.* 2014; 18(1): 27–32.
12. Chittoria RK. “Application of Autologous Lipoaspirate in Wound Healing” in Abstract Book of “Wound Care Con 2013”, 53. ISBN No:-978-81-905686-3-0.
13. Chittoria RK. “Role of Lymphoscintigraphy” in Diagnosis and Management of Patients with Leg Swelling of Unclear Etiology. *IJNM* 2013; 26(4): 226–230.

#### *Dr. Friji M.T.*

1. Friji MT. The Reconstructive Microsurgery Ladder in Orthopedics in Injury, 2014 JINJ5632 DOI: 10.1016/j.injury.2014.01.027
2. Friji MT. Use of Urine Collection Bag as an Alternative of Custom-made Plastic Bag for Limited Access Dressing (LAD) in JSWCR 2013, 5(1): 36–39.

## Plastic Surgery

3. Friji MT. "Negative-Pressure Wound Therapy in Wounds with External Fixators—A simple and cost effective technique" in Abstract Book of "Wound Care Con 2013", 45–46. ISBN No:-978-81-905686-3-0.
4. Friji MT. "Pressure Sore Management: Role of Negative Pressure Wound Therapy And Adjuvant Wound Therapies" in Abstract Book of "Wound Care Con 2013", 52. ISBN No:-978-81-905686-3-0.

### *Dr. Mohapatra D.P.*

1. Mohapatra DP. The reconstructive microsurgery ladder in orthopedics. *Injury* 2014, <http://dx.doi.org/10.1016/j.injury.2014.01.027>
2. Mohapatra DP. Rare tumors of the hard palate. *Ind. J. Plastic Surg.* 06/2013; 46(1).
3. Mohapatra DP. Algorithm based on eighteen patients with acquired traumatic earlobe defects not associated with jewellery. *Clin. Otolaryngol.* 06/2013; DOI:10.1111/coa.12137.

### Books

1. Chittoria RK. "Abstract Book of Wound Care Con 2013", Global Voice Publishers and Distributors, New Delhi, 1–59, 2013, ISBN No:-978-81-905686-3-0.
2. Chittoria RK. "SWCR Guidelines for Wound Management", Global Voice Publishers and Distributors, New Delhi, 1–18, 2013, ISBN No:-978-81-905686-3-0.

## PATIENT CARE SERVICES

### Clinical Services

OPD: Two times in a week that is on Tuesday and Thursday

Main OT: Three times in a week i.e. Monday, Wednesday and alternate Fridays

Laser OT: Monday to Friday

Minor OT: Monday to Friday

Anti-Ageing Clinic: Tuesday and Thursday

Nasal Endoscopy: Monday to Friday

Telemedicine Clinic: Tuesday and Thursday

Supportive Services to Different Departments including Department of Surgery, Oncology, Paediatric Surgery, Urology and Obst and Gynaecology.

### Laboratory Services

- i. Autologous Platelet Rich Plasma Extraction
- ii. Autologous Lipo Aspirate Extraction
- iii. Autologous Bone Marrow Extraction
- iv. Tissue and Skin Banking Services (Deep Freezer)
  - v. Micro Vascular Lab Services
  - vi. Speech Therapy Lab Services
- vii. Wound and Tissue Simulator Lab Services

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

### *Dr. Ravi Kumar Chittoria*

- i. As Organizing Chairman, Organized "LASER Dermatosurgery Course, CME and Workshop" on April 19, 2013 in Minor OT Complex, SSB, JIPMER.

- ii. Organized “Guest Lecture” on Topic: “Aviation Medicine: An Overview” by Gp Captain Dr. K.K. Tripathi from Aviation School of Medicine Bangalore on July 8, 2013 in Conference Hall SSB JIPMER.
- iii. Became Member of Telemedicine Committee Constituted by Director JIPMER in June 2013.
- iv. Organized “Skin Donation Day” on August 6, 2013 in Seminar Room of Department of Plastic Surgery SSB JIPMER.
- v. Organized 3rd PPSC Meet on August 1, 2013 at Seminar Room of Department of Plastic Surgery, SSB JIPMER.
- vi. Organized Guest Lecture by Dr. Anil Mavilla from Maryland USA on Topic: Protein signaling in Wound Healing in Seminar Room of Plastic Surgery SSB JIPMER in August 2013.
- vii. As Organizing Chairman, Organized “NMCN Project Telemedicine Workshop” at JIPMER on August 16, 2013 in SSB Conference Hall, JIPMER.
- viii. Became Member of JIPMER Information Technology Services (JITS) constituted by Director JIPMER in September 2013.
- ix. Nominated as “Faculty Member” for the “First Year Postgraduate Orientation Programme—2013” for DM/M.Ch Students by HOD Medical Education JIPMER on September 30, 2013.
- x. As President and Organizing Chairman of SWCR, organized “2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013” from October 11 to 13, 2013 in JIPMER Auditorium.
- xi. Nominated as “Mentor” for MBBS student by Director JIPMER on October 11, 2013.
- xiii. Nominated as “External”, by HOD, Department of Immunology for “Micro Training Session on Journal Article Presentation” on October 26, 2013.
- xiv. Nominated as “Member Secretary” by Dean (Research) JIPMER to Organize DM/M.Ch/ Fellowship Thesis Presentation on November 4–6, 2013.
- xv. As “Organizing Chairman” of “Wound Care Con 2013” received ISBN number for Abstract Book from Global Voice Publishers, New Delhi.
- xvi. Invited as one of the “Judges” for the “Award Paper Session” of “Wound Care Con 2013” held from October 11 to 13, 2013 at JIPMER Auditorium.
- xvii. Awarded with Citation and Certificate of Honour by JIPMER Scientific Society (JSS) for Delivering Guest Lecture in December 2013.
- xviii. Nominated as “Chairman of Medical Board” by Medical Superintendent JIPMER to issue Disability Certificate for patients in July 2013, September 2013, November 2013 and February 2014.
- xix. As “President SWCR”, prepared “SWCR Guidelines for Wound Management”.
- xx. As Member of Selection Committee prepared “Guidelines for SWCR Fellowship”.
- xxi. Organized Guest Lecture by International Faculty Dr. Maurice (France) on March 10, 2014 in Pasteur Theatre JIPMER.
- xxii. Organized “2nd Sushruta Oration in Plastic Surgery” on March 28, 2014 at SSB Conference Hall JIPMER.
- xxiii. Organized and Live Telecasted from Seminar Room of Department of Plastic Surgery to 160 Medical Colleges of South India, and AIIMS Raipur/Jodhpur Seminars on “Pressure Sore”, “Chest Wall Reconstruction”, “Dupuytren’s Contracture”, “Congenital Hand anomalies Part I”, “Ventilators/ ABG/Regional Blocks”, “Hypospadias and Intersex Part II”, “Lasers”, “Nutrition in Burns”.
- xxiv. Organized and Live Telecasted from Medical Virtual Class Room (VCR), Pasteur Theatre to NKN Connected Centres with VC facilities, Seminars on “Volkman Ischemic Contracture”, “Acute Burns Part 1” between April 2013 to March 2014.
- xxv. Organized and Live Telecasted from Seminar room of Plastic Surgery SSB to 160 Medical Colleges of South India various weekly sessions of Journal Club/Short Case/Long Case presentations between April 2013 to March 2014.

## Plastic Surgery

- xxvi. Became International Member of “World Society Interdisciplinary Anti-Aging Medicine (WOSIAM)” Paris, France.
- xxvii. Became “Member” of Editorial Board of “Inferential Journal of Clinical and Diagnostic Research (IJCDR)”.
- xxviii. Became “Member” of Editorial Board of “Plastic and Aesthetic Research (PAR)” Journal.
- xxix. Became “Member” of Organizing Committee of “ISEMT 2014”.
- xxx. Started “Online Teaching Programme” for M.Ch Plastic Surgery Residents.
- xxxi. Started “Hydrojet Debridement” as New Technology for Wound Management in the Department of Plastic Surgery.
- xxxii. Started Application of Autologous Platelet Rich Plasma (APRP) for improving Vascularity and Survival of Local Flaps.
- xxxiii. Started Application of Autologous Platelet Rich Plasma (APRP) for Donor Sites of Skin Grafting for early healing of donor sites.
- xxxiv. Started Application of Autologous Platelet Rich Plasma (APRP) for Skin Grafts for improving “Vascularity” and “Take” of Graft.
- xxxv. Started Application of Autologous Platelet Rich Plasma (APRP) for Faciocutaneous flaps (Reverse Sural Artery Flap) and Muscle Flaps (Gluteus Muscle Flap) for improving “Vascularity” and preventing necrosis of flap.
- xxxvi. Nominated by Director JIPMER to prepare Draft to Collaborate with School of Aviation Medicine Bangalore.
- xxxvii. Got sanction of “Smile Train Project” for Department of Plastic Surgery JIPMER for Cleft Lip Palate patients.
- xxxviii. As Nodal Officer Telemedicine and In-Charge Telehealth Programme JIPMER developed Indigenous “Mobile Telemedicine Console” and started using for “Tele ICU Monitoring”, “Tele OPD Consultations”, “Tele Ward Round”, “Tele Emergency Consultations”, “Tele Surgery”, “Tele Burn Ward Monitoring”, “Tele Education”, etc.
- xxxix. Started “Medical Virtual Class Room (VCR)” based teaching sessions between JIPMER and Medical Colleges of South India with VC facilities.
  - xl. Started “Live Telecast” of Teaching Sessions between JIPMER and 160 Medical Colleges of South India and AIIMS Raipur/Jodhpur.
  - xli. Nominated as Faculty for “International Master Course on Ageing Skin (IMCAS) India 2013”.

### **Dr. Devi Prasad Mohapatra**

- i. Was awarded “Director’s Distinction Award” in “CME on Patient Safety” from November 23 to 25, 2013.

### **Dr. Friji M.T.**

- i. Became International member in World Society Interdisciplinary Anti-aging Medicine.
- ii. Was nominated as “Member of Board of Studies in Plastic Surgery for 3 years by Vice Chancellor of Pondicherry University”.
- iii. Became Member of “International Hormone Society”.

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### **Dr. Ravi Kumar Chittoria**

- i. Nominated as MCI Inspector by Medical Council of India to perform Inspection for M.Ch Plastic Surgery Course at Rajarajeswari Medical College and Hospital Bangalore on June 8, 2013.

- ii. In June 2013 nominated by Vice-Chancellor of Pondicherry University as a Member of Inspection Committee to Inspect the Medical College located at Puducherry region.
- iii. Nominated by Tamil Nadu Dr. M.G.R. Medical University Chennai as External M.Ch Examiner to conduct Practical/Clinical and Oral Examination for M.Ch Plastic Surgery Course at Thanjavur Medical College, Thanjavur on August 12, 2013.
- iv. Became “Guide” for the “M.Ch Thesis” of two Candidates of M.Ch Plastic Surgery 2013 Batch.
- v. Nominated by Director JIPMER as Convener of Social Service Committee in August 2013 for SPANDAN 2013.
- vi. Organized “Micro Training Session on Journal Article Presentation” on October 16, 2013 at Seminar Room of Department of Plastic Surgery SSB JIPMER.
- vii. As organizing Chairman 30 CME Credit Points were awarded by Tamil Nadu Dr. M.G.R. Medical University, Chennai for Conduct of 2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013 from October 11 to 13, 2013.
- viii. As Organizing Chairman received support/funds from ICMR, MCI, CSIR, DST, DRDO to conduct 2nd International 7th National Annual Conference of the Society for Wound Care and Research (SWCR) 2013 from October 11 to 13, 2013.
- ix. On October 7, 2013 Nominated by Director JIPMER as Subject Expert (Burns and Plastic Surgery) for Recruitment at AIIMS Patna.
- x. Nominated by Deputy Director JIPMER to assist the Standing Selection Committee for Recruitment to faculty post for conduct of APS approval from October 25 to 27, 2013.
- xi. Nominated by Deputy Director JIPMER as “Internal Subject Expert” for conduct of Interview for APS on October 25, 2013.
- xii. Organized as “Member Secretary” DM/M.Ch/Fellowship Thesis Presentation on November 4–6, 2013, at NTTTC Hall JIPMER Academic Centre.
- xiii. Invited by Editor in Chief of “Journal of Cutaneous and Aesthetic Surgery (JCAS)” to Review Article on December 15, 2013.
- xiv. Invited as “Guest Editor” by “Editor in Chief” of “The Open Dermatology Journal” to bring a “Thematic Issue” on December 6, 2013.
- xv. Nominated as “Nodal Officer” of “All India Survey on Higher Education (AISHE) Project” of Ministry of Human Resource and Development (HRD), New Delhi by Deputy Director JIPMER In November 2013.
- xvi. In February 2014 became “Member” of “JIPMER Quality Council”.
- xvii. Nominated as Member of Selection Committee for purchase of Printer/Copier for JITS JIPMER.
- xviii. Research Activities discussed in “Research Review” Meeting.
- xix. As a Member of Organizing Committee of ISEMT 2014 submitted proposal for grants from MCI, CSIR, ICMR, DST, DRDO, NAMS.
- xx. Nominated by Controller of Examinations, SVIMS University Tirupathi to Evaluate Ph.D. Thesis Titled: A Prospective Randomized Controlled Trail on the Effectiveness of Low Intensity Laser Therapy on the Wound Healing Dynamics in Pressure Ulcers.
- xxi. Became “Co-Guide” for “M.Ch Thesis” of two Candidates of M.Ch Surgical Oncology 2013 Batch.
- xxii. As Co-Guide completed the Thesis of student of MS Anatomy 2011 Batch.
- xxiii. Nominated as “Member Secretary” of “Specification Vetting Committee JIPMER” for Procurement of Laser for Wound Therapy.
- xxiv. Nominated as “Member Secretary” of “Specification Vetting Committee JIPMER” for Procurement of Tancutaneous Oxygen Monitor.
- xxv. Nominated as “Member Secretary” of “Specification Vetting Committee JIPMER” for Procurement of Laser for Skin Tightening.
- xxvi. Nominated as “Member Secretary” of “Specification Vetting Committee JIPMER” for Procurement of transcutaneous Oxygen Therapy System.

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- xxvii. Nominated as “Member Secretary” of “Specification Vetting Committee JIPMER” for Procurement of Ultrasound Assisted Wound Therapy.
- xxviii. Nominated as “Member Secretary” of “Specification Vetting Committee JIPMER” for Procurement of Ultrasonic lipolysis System including Suction Pump and Infiltration Pump.
- xxix. As a Nodal Officer AISHE submitted Data Form for the year 2011–2012 and 2012–2013 of JIPMER for All India Survey on Higher Education to Ministry of HRD, New Delhi.
- xxx. Telemedicine SOP was prepared and approved by Director JIPMER.

### Dr. Devi Prasad Mohapatra

- i. Became International membership in World Society Interdisciplinary Anti-aging Medicine.
- ii. Was appointed as member board of Medical Experts for declaration of Brain Stem Death in JIPMER under the transplantation of human organs act 1994.
- iii. Was nominated by Director JIPMER as “Member of JIPMER Quality Council” in October 2012.

### Dr. Friji M.T.

- i. Became Member of “International Hormone Society”.

## SIGNIFICANT EVENTS IN THE DEPARTMENT

- i. Post Basic Diploma Student (Operation Room Nursing) started their posting in Plastic Surgery OT.
- ii. Started Post Basic Diploma Student (ICU Nursing) started their posting in Plastic Surgery ICU.
- iii. Department started utilizing Tamil Nadu Insurance Scheme regularly w.e.f. July 2013.
- iv. Dr. Ramdas, Prof. and Head, Department of Plastic Surgery PIMS Puducherry visited the Department on July 17, 2013 and interacted with M.Ch Residents and Faculty of Department.
- v. On July 22, 2013 Dr. Leela Imam, Director of Smile Train Project visited Department for Inspection.
- vi. Dr. Mohan Head of Department of Plastic Surgery, GH Puducherry visited Department in August 2013 and interacted with M.Ch Residents and Faculty of the Department.
- vii. On August 8, 2013 Dr. Karoon Agrawal, Prof. and Head, Department of Burns and Plastic Surgery, Safdarjung Hospital New Delhi Visited the Department of Plastic Surgery and interacted with Residents and Faculty.
- viii. Dr. Cordelia V Sharma, Director, Surgical Continuum of Care, Westchester Medical Centre, Valhalla, New York visited Plastic Surgery ICU on December 13, 2013.
- ix. In August 2013 two New M.Ch Senior Resident joined the M.Ch Plastic Surgery Course.
- x. Started JIPMER Tertiary Care Centre on February 10, 2014 at EMS fifth Floor, JIPMER.
- xi. Department got approval for “Smile Train Project” for Cleft Lip and Palate Patients.
- xii. Department developed Indigenous “Mobile Telemedicine Console” and started using for “Tele ICU Monitoring”, “Tele OPD Consultations”, “Tele Ward Round”, “Tele Emergency Consultations”, “Tele Surgery”, “Tele Burn Ward Monitoring”, “Tele Education”, etc.
- xiii. Started “Medical Virtual Class Room (VCR)” based teaching sessions between JIPMER and Medical Colleges of South India with VC facilities.
- xiv. Started “Live Telecast” of Teaching Sessions between JIPMER and 160 Medical Colleges of South India and AIIMS Raipur/Jodhpur.
- xv. Department Joined “Comprehensive Breast Centre” (in coordination with General Surgeon, Radiation Oncologist, Medical Oncologist, Radiologist, Social Worker, Nurses) regularly held in Institute Old Building.

# Preventive and Social Medicine

## FACULTY LIST

- |                        |   |                                       |
|------------------------|---|---------------------------------------|
| 1. PROFESSOR AND HEAD  | : | Gautam Roy                            |
| 2. PROFESSOR           | : | K C Premarajan                        |
| 3. ASSOCIATE PROFESSOR | : | Sonali Sarkar                         |
| 4. ASSOCIATE PROFESSOR | : | Ganesh Kumar S                        |
| 5. ASSOCIATE PROFESSOR | : | Sitanshu Sekhar Kar                   |
| 6. ASSISTANT PROFESSOR | : | Swaroop Kumar Sahu                    |
| 7. ASSISTANT PROFESSOR | : | Palanivel C                           |
| 8. ASSISTANT PROFESSOR | : | Subitha L                             |
| 9. ASSISTANT PROFESSOR | : | i. Mahalakshmy T<br>ii. Jayalakshmy R |

## BACKGROUND INFORMATION OF THE DEPARTMENT

Department of Preventive and Social Medicine has been training undergraduates from the inception of JIPMER and postgraduates from 1979. Undergraduate training includes medical and paramedical disciplines like laboratory sciences and medical records. Several hundreds of quality research publications and over 50 postgraduate dissertations have been completed. The department has also completed several internationally funded research projects on Maternal Health by Ford Foundation and 'Model Geriatric Care' by WHO. The department has well organized Urban and Rural Health Centres, visited by stalwarts like Professor John. M. Last. These centres have well established and documented family folder system of medical records which facilitates family centered teaching, training and follow up health care services. The development of a full-fledged JIPMER International School of Public Health (JISPH) is under process.

### Educational Courses

- i. Undergraduate
  - a. MBBS (till seven semesters)
  - b. BSc MLT (one semester)
- ii. Postgraduate
  - a. MD (Community Medicine)
  - b. Master of Public Health (MPH)
  - c. Postgraduate Diploma in Public Health Management (PGDPHM)

## CONFERENCES AND CMES ORGANIZED BY DEPARTMENT

- i. “4th Short Course on Basic Epidemiology” at the Department of PSM, JIPMER from November 4 to 8, 2013.
- ii. The Department actively participated in organizing a Public Health Retreat on “Transforming Public Health Education in India” was organized by MOHFW, GoI in collaboration with Indian Public Health Institutions and Harvard School of Public Health at JIPMER, Puducherry between March 10 and 11, 2014.
- iii. The Department actively participated in organizing the ‘National Data Analysis Plan (NDAP) under National AIDS Control Programme, Phase IV (NACP-IV)’ organized by the Department of AIDS Control (DAC), with the support of CDC and FHI360 in collaboration with JIPMER, Puducherry from to January 16 to 18, 2014.
- iv. Common Protocol training for the Report India Initiative under the Indo-US vaccine action programme was held at JIPMER from March 17 to 19, 2014.

## CONFERENCES AND CMES ATTENDED BY FACULTY

### Dr. Gautam Roy

- i. Visited NIE, Chennai on January 11, 2014 to discuss the modalities and collaboration regarding MPH curriculum.
- ii. Actively participated in organizing Public Health Retreat on “Transforming Public Health Education in India” was organized by MOHFW, GoI in collaboration with Indian Public Health Institutions and Harvard School of Public Health at JIPMER, Puducherry between March 10 and 11, 2014.
- iii. Resource person for 4th Short Course on Basic Epidemiology conducted in the Department of PSM, JIPMER from November 4 to 8, 2013.
- iv. Resource faculty for Postgraduate Orientation Programme in JIPMER organized by Department of Medical Education in 2013.

### Dr. K C Premarajan

- i. Actively participated in organizing Public Health Retreat on “Transforming Public Health Education in India” was organized by MOHFW, GoI in collaboration with Indian Public Health Institutions and Harvard School of Public Health at JIPMER, Puducherry between March 10 and 11, 2014.
- ii. Resource person for 4th Short Course on Basic Epidemiology conducted in the Department of PSM, JIPMER from November 4 to 8, 2013.
- iii. Resource faculty for Postgraduate Orientation Programme in JIPMER organized by Department of Medical Education in 2013.

### Dr. Sonali Sarkar

- i. Chaired a session on “Women in Medical Science, Health and Wellbeing” during the National Conference on “Women in Science and Technology: Maximizing Talents and Minimizing Barriers” organized by School of History and Tourism Studies, Tamil Nadu Open University, Chennai on August 30 and 31, 2013.
- ii. Presented a seminar on ‘JIPMER and JISPH’ at Johns Hopkins University, Baltimore, MD 21205, USA on 13.8.2013.
- iii. Presented the proposal titled Biomarkers for Risk of TB and for TB Treatment Failure and Relapse on behalf of JIPMER and BU at National Institutes of Health in Bethesda, Maryland, USA during first Regional Prospective Observational Research in TB (RePORT-India) Leadership Group (LG) meeting on August 16 to 17, 2013.



- iv. Resource person for First Year Postgraduate Orientation Programme for PhD/MSc students and delivered a lecture on 'Study design, variables, errors and bias eliminating techniques' on September 25, 2013.
- v. Resource person for Interns Orientation program.
- vi. Resource person for 4th Short Course on Basic Epidemiology conducted in the Department of PSM, JIPMER from November 4 to 8, 2013.

### **Dr. Ganesh Kumar S**

- i. Participated in Regional workshops for Operationalization of National Monitoring Framework on Prevention and Control of Non Communicable Diseases from December 13 to 14, 2013.
- ii. Resource person for 4th Short Course on Basic Epidemiology conducted in the Department of PSM, JIPMER from November 4 to 8, 2013.
- iii. Attended PGDPHM partner institutes meeting at PHFI, New Delhi on February 27, 2014.

### **Dr. Sitanshu Sekhar Kar**

- i. Selected as a Fellow for 2012 at Foundation for Advancement of International Medical Education and Research (FAIMER) Regional Institute at PSG, Coimbatore. Attended the third onsite programme at Coimbatore from April 11 to 15, 2013. Presented a poster title "Student centered learning in Community Medicine: an experience from JIPMER, Puducherry".
- ii. Acted as a resource faculty for PG final year Orientation programme and delivered a talk on "Descriptive Statistics" in JIPMER organized by Department of Medical Education on April 22, 2013.
- iii. Presented a seminar on JIPMER-NCC collaboration activities at Super Speciality Block conference hall on May 3, 2013.
- iv. Attended a workshop on Clinical Trials and Meta-analysis organized by Department of Biostatistics, CMC, Vellore from May 27 to 31, 2013.
- v. Invited as a guest speaker on Information Retrieval in Kalinga Institute of Medical Sciences (KIMS) on June 21, 2013.
- vi. Acted as a resource faculty for a workshop on Question paper setting organized by Dept of Medical Education Postgraduate Orientation Programme in JIPMER organized by Department of Medical Education on July 7, 2013.
- vii. Coordinated the first year MBBS orientation programme conducted by Dept. of Medical Education on August 3, 2013.
- viii. Acted as a resource faculty for a workshop on formulating MCQs organized by Dept. of Medical Education Postgraduate Orientation Programme in JIPMER organized by Department of Medical Education on August 11, 2013.
- ix. Was a resource faculty for PhD/MSc Orientation programme in JIPMER and delivered a talk on "sample size estimation" organized by Department of Medical Education on September, 25 2012.
- x. Attended one day workshop on Recent Advances in Medical Education at MGMC and RI on July 19, 2013.
- xi. Attended the national conference on Telemedicine organized by Dept. of Telemedicine, JIPMER on August 16, 2013.
- xii. Was the course coordinator and acted as resource faculty for the 4<sup>th</sup> short course in Basic Epidemiology from November 4 to 8, 2013.
- xiii. Participated as resource faculty for NTTTC for health professionals for 67, 68 and 69 National Teachers Training Course for Health Professionals organized by the Department of Medical Education, JIPMER from September 12 to 21, 2013, 20 February to 1 March, 2013 and March 6 to 15, 2013, respectively.

## Preventive and Social Medicine

- xiv. Attended a Training program for Young Leaders on “Health Administration” Course at University of Miyazaki, Faculty of Medicine, Japan organized by JICA Kyushu Center from November 28 to December 15, 2013.
- xv. Visited NIE, Chennai on 11<sup>th</sup> January 2014 to discuss the modalities and collaboration regarding MPH curriculum.
- xvi. Presented the “Overview of MPH programme at JIPMER” during the launch of Master of Public Health Course on 21<sup>st</sup> January 2014 at NTT hall, JIPMER Academic Center.
- xvi. Actively participated in organizing Public Health Retreat on “Transforming Public Health Education in India” was organized by MOHFW, GoI in collaboration with Indian Public Health Institutions and Harvard School of Public Health at JIPMER, Puducherry between 10<sup>th</sup> and 11<sup>th</sup> March 2014.
- xvii. Delivered a Talk on “Study designs: overview” in a seminar on “Translational Research” organized by Division of Research, JIPMER on January 24, 2013.
- xix. Resource person for school teachers, paramedical staffs and medical officers for a World Diabetic Foundation project on “Establishing NCD clinics at Primary Health Centers of Puducherry” on 16<sup>th</sup> January 2014, 5<sup>th</sup> February 2014 and 22<sup>nd</sup> March 2014, respectively.

### Dr. Swaroop Kumar Sahu

- i. Participated in the International Summit on Emergency Medicine and Trauma—2014 at JIPMER, Pondicherry (February 14–16, 2014) and presented a scientific paper on “A Surveillance System for Injuries in JIPMER, Pondicherry—A Hospital Based Descriptive Study”.
- ii. Attended the 58th Annual National Conference of Indian Public Health Association at Tirupathi (January 21–24, 2014) and presented a paper on “Quality Injury Surveillance using EpiData in Resource Poor Settings”.
- iii. Participated in a training program on “Economic Principles of Health Care Intervention” organized and conducted by Indian Society of Health Administrators at Bangalore from August 10–11, 2013
- iv. Acted as a facilitator for the National Operational Research Course, organized by International Union Against Tuberculosis and Lung Disease at NIRT, Chennai from October 7–12, 2013
- v. Invited as a guest speaker to talk on “Epidemiology—Current Scenario of Tuberculosis” in PSG IMS & RI, Coimbatore on March 22, 2014
- vi. Acted as a resource faculty for 1st year PG Orientation program and delivered a talk on “Study Designs” and “Use of appropriate statistical tests” in JIPMER organized by Department of Medical Education from August 22 to 23, 2013
- vii. Resource faculty for the 4th short course in Basic Epidemiology from November 4 to 8, 2013 in Dept. of PSM, JIPMER.
- viii. Participated in Public Health Retreat on “Transforming Public Health Education in India” organized by MOHFW, GoI in collaboration with Indian Public Health Institutions and Harvard School of Public Health at JIPMER, Puducherry from 10 to 11, March 2014.
- ix. Attended a CME program on Transplantation at JIPMER on September 21, 2013

### Dr. Palanivel C

- i. Attended the stakeholder meeting for ‘IDD elimination through strengthening of iodized salt supply chain’ at Chennai on July 25 and 26, 2013
- ii. Resource person in Post Graduate Orientation Program for 2013 for MD/MS students organized by Department of Medical Education, JIPMER in August 2013.
- iii. Attended the 67th National Course on Educational Science for Teachers of Health Professionals organized by Department of Medical Education, JIPMER from September 12 to 21, 2013 as a participant.

- iv. Attended 'The National Operational Research Course' organized by The Union, South East Asia Office, September 30 to October 12, 2013 in Chennai as a facilitator/mentor.
- v. Resource person for 4th 'Short Course on Basic Epidemiology' conducted by Department of PSM, JIPMER from November 4 to 8, 2013.
- vi. Attended the meeting on 'Importance of Universal Salt Iodization-Role of salt producers and Salt traders' on November 13, 2013 in Tuticorin, Tamil Nadu as State Co-ordinator for IDD elimination.
- vii. Resource person for 'Short Course on Epidemiology, Biostatistics and Research Methodology' organized by Department of Community Medicine, IGMCRI, Puducherry between November 16 to 19, 2013.
- viii. Attended the 'CME and Workshop on patient safety' organized by JIPMER Quality Council on November 23 and 24, 2013 at JIPMER, Puducherry
- ix. Delivered a guest lecture on 'Getting to Zero HIV/AIDS infection, Discrimination, Death' on occasion of World AIDS Day 2013 organized by Mother Theresa Post Graduate and Research Institute of Health Sciences on December 7, 2013.
- x. Attended as a data analyst in 'National Data Analysis Plan (NDAP) under National AIDS Control Programme, Phase IV (NACP-IV)' organized by the Department of AIDS Control (DAC), with the support of CDC and FHI360 in collaboration with JIPMER, Puducherry from January 16–18, 2014.
- xi. Attended the review meeting on patient safety organized by JIPMER Quality Council held on February 28, 2014 at JIPMER, Puducherry
- xii. Attended 'The Union's Operations Research Course' organized by The Union South-East Asia Office, between March 3 and 8, 2014 at Kathmandu, Nepal as a facilitator/mentor.
- xiii. Attended the National Data Analysis Plan (NDAP) Interim Review workshop held at Government Hospital of Thoracic Medicine (GHTM), Tambaram Sanatorium, Chennai on March 27 and 28, 2014.

### **Dr. Subitha L**

- i. Participated in the 69th National Teachers Training Workshop of NTTC March 6 to 15, 2014.
- ii. Participated in Workshop on 'Setting up Non-communicable Disease Prevention and Training Unit' on March 24, 2014 at St. John's Research Institute Bangalore.
- iii. Resource person for 4th 'Short Course on Basic Epidemiology' conducted by Department of PSM, JIPMER from 4 to 8, November 2013.

### **Dr. Mahalakshmy T**

- i. Acted as resource person in Intern Orientation Program organized by Department of Medical Education, JIPMER from January 8 to 10, 2014.
- ii. Participated in the National Workshop on the analysis plan, NACP III held at JIPMER January 16–18, 2014.
- iii. Participated in the 68th National Teachers Training Workshop of NTTC 20th February to 1st March 2014.
- iv. Participated in the NDAP Interim Review Meeting held at National Institute of Tuberculosis Research, Tambaram, Chennai –March 27 and 28, 2014.

### **Dr. Jayalakshmy R**

- i. National Workshop on the analysis plan, NACP III held at JIPMER January 16–18 2014.
- ii. NDAP Interim Review Meeting held at National Institute of Tuberculosis Research, Tambaram, Chennai—March 27 and 28, 2014.
- iii. Attended 11 days contact program for post graduate diploma in family medicine at CMC, Vellore between February 18 and 28, 2014.

## Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From... To...)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/Departments	Status (completed in FY 2013-2014 or ongoing)
1.	Dr. Gautam Roy	“Effectiveness of a health education intervention project on the awareness and practice of breast self-examination among the nursing staff of a tertiary care hospital in Puducherry, South India”	2013-2015	IAPSM Ford Foundation Epidemiological Grant		Ongoing
2.	Dr. Gautam Roy	Biomarkers for Risk of TB and for TB Treatment Failure and Relapse	2014-2019	7.5 Crores	JIPMER and BU at National Institutes of Health in Bethesda, Maryland, USA	Ongoing
3.	Dr. Sonali Sarkar	Community Based Intervention for Depression among Elderly	01.8.12 to 31. 3. 14	ICMR- ₹ 8.5 Lakhs	Dept. of Psychiatry, JIPMER	Ongoing
4.	Dr. Ganesh Kumar	Prevalence of depression and its associated factors using Beck's Depression Inventory among undergraduate medical students of JIPMER, Puducherry	2011-2013	Nil		Completed
6.	Dr. Ganesh Kumar	Prevalence and determinants of mental disability using Indian Disability Evaluation and Assessment scale in Puducherry	2012-2014	Intramural ₹137,000	Dept. of Psychiatry	Ongoing
7.	Dr. Sitanshu Sekhar Kar	Prevalence and annual cost of hypertension care at JIUHC	2 years (March 2013-Feb 2015)	Intra mural Funds 2012-2013 ₹70,000 2013-2014 ₹ ₹67,000	Nil	Ongoing
8.	Dr. Sitanshu Sekhar Kar	Implementing Student centered learning methodology in Community Medicine	12 months (September 2012-July 2013)	No funding	Nil	Ongoing

9.	Dr. Sitanshu Sekhar Kar ICMR STS (Guide)	Cardiovascular risk profiling of patients at an urban health centre in a tertiary care teaching hospital of south India	May-June 2013	No funding, supported by ICMR STS fund	Nil	Completed
10.	Dr Sitanshu Sekhar Kar	Developing a Blue-print in Community Medicine	12 months	No funding	Nil	Ongoing
11.	Dr. Swaroop Kumar Sahu	A Surveillance System for Injuries in JIPMER, Pondicherry – A Hospital Based Descriptive Study	1 year (Oct 2013- Sept 2014)	Nil	Dept. of EMS and Surgery, JIPMER	Ongoing
12.	Dr. Swaroop Kumar Sahu	Assessing the effectiveness of Community leaders in driving mass Diabetes Screening Program at Primary Health Centre	1 year	Nil	Nil	Completed Done in RHTC, JIPMER
13.	Dr. Palmivel C	HIV prevalence among patients with presumptive tuberculosis attending designated microscopy centers in a low HIV prevalence setting in South India.	September 2012 to August 2013	Not funded	The Union, State TB Cell	Completed
14.	Dr. Palmivel C	Feasibility of opportunistic screening for diabetes mellitus at a tertiary care centre in Puducherry, India	January 2013 to September 2013	Not funded		Completed
15.	Dr. Palmivel C	Tuberculosis (TB) case detection among clients attending ICTC and ART centres: Outcomes of Intensified TB case finding activities under national programmes of tuberculosis and HIV/AIDS	January 2014– 2015	Not funded	Department of AIDS Control, MOHFW	Ongoing
16.	Dr. Jayalakshmy	“knowledge and practice of risk factors of non-communicable disease among school children”		No funding, supported by ICMR STS fund	Nil	Ongoing

**PUBLICATIONS****Journals**

1. Ganesh S R, Kumar S G, Sarkar S, Kar SS, Roy G, Premarajan K C. Assessment of village water and sanitation committee in a district of Tamil Nadu, India. *Ind. J Pub. Health* 2013; 57:43–46. (IF NA)
2. Anbarasi A, Sarkar S, Roy G, Lakshminarayanan S. Experiences of HIV positive mothers from rural South India during intra-natal period. *Journal of Clinical and Diagnostic Research*. 2013 Oct, Vol-7(10): 2203–2206. (IF NA)
3. Saurabh S, Sarkar S, Selvaraj K, Kar SS, Kumar SG, Roy G. Effectiveness of foot care education among people with type 2 diabetes in rural Puducherry, India. *Ind. J. Endocr. Metab.* 2014; 18:106–110. (IF NA)
4. S Sarkar, KC Premarajan, G Roy, G Kumar, S Kar, S Sahu, et al. Formative assessment in a post-graduate training program-does the model work? *Indian Journal of Community Health* 25 (3), 321–323. (IF NA)
5. Sahu SK, Premarajan KC, Roy G, Kumar SG. Improving case detection is more important than achieving elimination of leprosy in Odisha. *Ind. J. Dermatol. Venereol. Leprol* 2013; 79:288–290. (IF 1.206)
6. Kumar SG, Adithan C, Harsh BN, Sujatha S, Gautam Roy, Malini A. Antimicrobial resistance in India: A review. *J Nat Sci Biol Med* 2013; 4:279–284. (IF NA)
7. Kumar SG, Gautam Roy, Subitha L, Swaroop Kumar Sahoo. Prevalence and factors associated with bronchial asthma among school children in urban Puducherry, India. *J Nat Sci Biol Med* 2014; 5:59–62. (IF NA)
8. Lakshminarayanan Subitha, Kar SS, Premarajan KC, Roy Gautam, Sarkar Sonali. Investigation of Acute Diarrheal Disease Outbreak during the Post Cyclone Phase in Pondicherry. *National Journal of Research in Community Medicine*. 2013; 2 (2):121–127. (IF NA)
9. Swaroop Kumar Sahu, Gautam Roy, Additional Opportunities for Integrated Child Development Services (ICDS) in India (Published online 23rd Mar 2014 in *Indian Journal of Paediatrics*). (IF NA)
10. Swaroop Kumar Sahu, Gautam Roy, Ambika Gnanam Chidambaram, A Rekha, Training in Qualitative Research Methods as a Management Tool for Early Antenatal Case Registration in Primary Care Settings [Published in *Indian Journal of Maternal and Child Health (IJMCH)*, 15 July - Sept 2013]. (IF NA)
11. Swaroop Kumar Sahu, Gautam Roy, Student's perspective on student's presentations and Faculty lectures (Published in *South East Asian Journal of Medical Education*, Vol.6 no.2, 2012). (IF NA)
12. Kumar SG, Premarajan K.C., Subitha L., Suguna E., Vinayagamoorthy, Veera Kumar. Prevalence and pattern of alcohol consumption using alcohol use disorders identification test (AUDIT) in rural Tamil nadu, India. *J. Clin Diag Res* 2013; 7:1637–1639. (IF NA)
13. Archana R, Kar SS, Premarajan KC, Lakshminarayanan S. Out of pocket expenditure among the households of a rural area in Puducherry, South India. *J. Nat. Sci Biol. Med* 2014; 5: 135–138. (IF NA)
14. Kumar SG, Premarajan KC and Kar SS. Anemia among antenatal mothers with better healthcare services in a rural area of India. *J. Res. Med. Sci.* 2013; 18(2): 171. (IF 0.684)
15. Ganesh Kumar, Premarajan KC, Sonali Sarkar, Swaroop Kumar Sahu, Sahana, Ambika et al, Prevalence and factors associated with asthma among school children in rural Puducherry, India, *Curr. Pediatr. Res.* 2012; 16 (2): 159–163. (IF NA)
16. Ramakrishnan J, Majgi SM, Premarajan KC, Lakshminarayanan S, Thangaraj S, Chinnakali P. High prevalence of cardiovascular risk factors among policemen in Puducherry, South India. *J. Cardiovasc. Dis. Res.* 2013 Jun; 4(2):112–115. (IF NA)
17. Jose JA, Sarkar S, Kumar SG, Kar SS. Utilization of maternal health-care services by tribal women in Kerala. *J. Nat. Sci. Biol. Med.* 2014; 5:144–147. (IF NA)
18. Sarkar S. Veerakumar A M, Shidam U. Study of Life Expectancy in Urban Pondicherry. *J. Nat. Sci. Biol. Med.* 2014; 5:228–229. (IF NA)

19. Saurabh S, Sarkar S, Pandey DK. Female literacy rate is a better predictor of birth rate and infant mortality rate in India. *J. Fam. Med. Primary Care* 2013; 2:349–353. (IF NA)
20. Kumar S G, Joseph N. Drainage and sewerage system in urban India: Need for action. *Ind. J. Occup. Environ. Med.* 2012; 16:150–151. (IF NA)
21. Prakasha S R, Suresh G, D'sa IP, Shetty SS, Kumar S G. Mapping the pattern and trends of extrapulmonary tuberculosis. *J. Glob. Infect. Dis.* 2013; 5:54–59. (IF NA)
22. Joseph N, Kumar SG, Nelliyanil M. Pattern of seizure cases in tertiary care hospitals in Karnataka state of India. *Ann. Ind. Acad. Neurol.* 2013; 16:347–351. (IF 0.572)
23. Kumar SG, Dharanipriya A, Kar SS. Awareness of occupational injuries and utilization of safety measures among welders in coastal South India. *Int. J. Occup. Environ. Med.* 2013; 4:172–177. (IF NA)
24. Bammigatti C, Suryanaraya BS, Harichandrakumar KT, Kumar SG. Pattern and outcome of *Cleistanthus collinus* (Oduvanthalai) poisoning in a tertiary care teaching hospital in South India. *J. Forensic Leg. Med.* 2013; 20:959–961. (IF 0.856)
25. Saurabh S, Kumar S G, Sahu SK, Thapaliya S, Sudharsanan S, Vasanthan T. Use of insecticide-treated bednets in an urban coastal area of Puducherry, India: A cross-sectional study. *Ind. J. Pub. Health* 2013; 57:276–279. (IF NA)
26. Joseph N, Madi D, Kumar SG, Nelliyanil M, Saralaya V, Rai S. Clinical spectrum of rheumatic fever and rheumatic heart disease: A 10 year experience in an urban area of south. *N Am. J. Med. Sci.* 2013; 5:647–652. (IF NA)
27. Kumar S G. Yoga in promotion of health: Translating evidence into practice at primary healthcare level in India. *J. Fam. Med. Primary. Care.* 2013; 2:301–302. (IF NA)
28. Kumar SG, Anindo Majumdar, Pavithra G. Quality of life and its associated factors using WHO QOL BREF among elderly in urban puducherry, india. *J. Clin. Diag. Res.* 2014; 8:54–57. (IF NA)
29. Selvaraj K, Kumar SG, Ramalingam A. Prevalence of self-medication practices and its associated factors in Urban Puducherry, India. *Perspect. Clin. Res.* 2014; 5:32–36. (IF NA)
30. Joseph N, Kumar SG, Nelliyanil M. Skin diseases and conditions among students of a medical college in southern India. *Ind Dermatol. Online. J.* 2014; 5:19–24. (IF NA)
31. Sonali Sarkar, Vinayagamoorthy V, Kumar SG, Subitha Lakshminarayanan. Sex ratio at birth in Puducherry: Need for concern. *Natl. J. Commun. Med.* 2013; 4:662–663. (IF NA)
32. Kumar S, SS Kar, Sonali Sarkar, Kumar SG. Iron-Folic acid intake among pregnant women in Anumanthai PHC of Villupuram, Tamil Nadu. *Ind. J. Clin. Pract.* 2014; 24:875–877. (IF NA)
33. Kumar SG. Importance of sample size in clinical trials. *Int. J. Clin. Exp. Physiol.* 2014; 1:10–2. (IF NA)
34. Kar SS, Ramalingam A. Same-day sputum microscopy: The road ahead in tuberculosis diagnosis. *Lung India* [serial online] 2013 [cited 2013 Sep 8]; 30:226–227. Available from: <http://www.lung-india.com/text.asp? 2013/30/3/226/116242>. (IF NA)
35. Zayapragassarazan Z, Kumar S, Kar SS. Views of Medical Teachers towards Problems in UG Medical Curriculum—The Outcomes of a Buzz Session. *NTTC Bull.* 2013; 20(1):8–9. (IF NA)
36. Archana R, Kar SS. Are sustainable development goals a replacement for the Millennium Development Goals post 2015? *NMJI.* 2013; 26 (1):59. (IF NA)
37. Z. Zayapragassarazan, Santosh Kumar, PH Ananthanarayanan, B. Vishnu Bhat, Latha Chaturvedula, D. Kadambari, B. Gitanjali, Debduitta Basu, R.P. Swaminathan, Sitanshu Sekhar Kar, S. Manikandan. Report on 66th national course on educational science for teachers of health professionals. *Educ. Med. J.* 2013; 5(4):92. (IF NA)
38. Saurabh S, Sahu SK, Sadishkumar A, Kakkanattu JC, Prapath I, Ralte IL, et al. Screening for skin diseases among primary school children in a rural area of Puducherry. *Ind. J. Dermatol. Venereol Leprol* 2013; 79:268. (IF 1.206)
39. Suman Saurabh, S. Ganesh Kumar, Swaroop Kumar Sahu, Suresh Thapaliya, S. Sudharsanan, T. Vasanthan, Use of Insecticide-Treated Bednets in an Urban Coastal Area of Puducherry, India: A Cross-sectional Study. *Ind. J. Pub. Health* 2013; 57: 276–279. (IF NA)

40. Vaman Kulkarni, Tanuj Kanchan, Palanivel C, M.K. Papanna, Nithin Kumar, B. Unnikrishnan. Awareness and practice of road safety measures among undergraduate medical students in a South Indian state. *J. Forensic Legal Med*, 2013; 20(4):226–229. (IF 0.856)
41. Chinnakali P, Ramakrishnan J, Vasudevan K, Gurumurthy J, Upadhyay RP, Panigrahi KC. Level of awareness about tuberculosis in urban slums: Implications for advocacy and communication strategy planning in the National program. *Lung India* 2013; 30:139–142. (IF NA)
42. Shewade HD, Chinnakali P. Preventive medicine clinics in hospitals of India: An opportunity missed. *Int. J. Med. Pub. Health* 2013; 3:115–116. (IF NA)
43. Palanivel C, Yadav K, Gupta V, Rai SK, Misra P, Krishnan A. Causes of death in rural adult population of North India (2002–2007), using verbal autopsy tool. *Ind. J. Pub. Health*. 2013 Apr–Jun; 57(2):78–83. (IF NA)
44. Ranganadin P, Chinnakali P, Vasudevan K, Rajaram M. Respiratory health status of traffic policemen in Puducherry, South India. *IJCRR*. 2013; 5(7): 87–91. (IF NA)
45. Selvaraj K, Chinnakali P, Majumdar A, Krishnan IS. Acute respiratory infections among under-5 children in India: A situational analysis. *J. Nat. Sci. Biol. Med.* 2014; 5:15–20. (IF NA)
46. Upadhyay RP, Krishnan A, Rai SK, Chinnakali P, Odukoya O. Need to focus beyond the medical causes: a systematic review of the social factors affecting neonatal deaths. *Paediatr Perinat Epidemiol*. 2014 Mar; 28(2):127–137. (IF 2.157)
47. Shewade HD, Jeyashree K, Chinnakali P. Reviving community medicine in India: The need to perform our primary role. *Int. J. Med. Pub. Health* 2014; 4:29–32. (IF NA)
48. C Palanivel, A M V Kumar, T Mahalakshmi, S Govindarajan, M Claassens, S Satyanarayana, D Gurumurthy, K Vasudevan, A Purty, A K Paulraj, K V Raman. Uptake of HIV testing and HIV positivity among presumptive tuberculosis patients at Puducherry, South India. *Public Health Action* 2013; 3(3): 220–223. (IF NA)
49. Abdulkader RS, Kankaria A, Roy R, Chellaiyan VG, Kharya P, Upadhyay RP, Chinnakali P. Knowledge and practices regarding child rearing and its association with literacy among married women in a rural area of Tamil Nadu, India. *Int. J. Med. Pub. Health* 2013; 3:313–316. (IF NA)
50. Raghuraman S, Vasudevan KP, Govindarajan S, Chinnakali P, Panigrahi KC. Prevalence of diabetes mellitus among tuberculosis patients in Urban Puducherry. *North Am. J. Med. Sci.* 2014; 6:30–34. (IF NA)
51. Rizwan S A, Vinoth C, Kharya P, Upadhyay RP, Palanivel C. Prevalence of Sexually Transmitted Infections (STIs) Among Women Attending a Primary Health Centre of Rural Puducherry, South India. *Ind. J. Mater Child Health* 2013; 15 (3). (IF NA)
52. Kalaiselvi S, Hemant D Shewade, Palanivel C. Rising Burden of Non-Communicable Diseases in India. Are we ready for the NCD challenge? *Ind. J. Rural. Health Care*; 1(3): 176–178. (IF NA)

## AWARDS, HONORS AND OTHER PERSONAL ACHIEVEMENTS

### Dr. K C Premarajan

- i. Reviewer for Indian Journal of Medical Research (IJMR)
- ii. Reviewer for Indian Journal of Dermatology, Venereology and Leprology

### Dr. Sonali Sarkar

- i. Associate editor and reviewer for IJMedPH.
- ii. Statistical Editor for IJAMR.
- iii. Chairperson of the Health and Wellness taskforce of Indian Women's Network (IWN), Puducherry, the women's wing of Confederation of Indian Industries (CII).
- iv. External examiner for MD examination in Community Medicine for Sri Balaji Vidyapeeth University at Mahatma Gandhi Medical College and Research Institute on 19<sup>th</sup> and 20<sup>th</sup> of April 2013.



- v. Chief Guest for inaugural ceremony of Tritiya Sopaan Testing Camp for Scouts and Guides in Kendriya Vidyalaya, no.1, Puducherry on 29.7.13.

### **Dr. Ganesh Kumar S**

- i. Member of Editorial board of Journal of Natural Science, Biology and Medicine.
- ii. Selected as a senior editor in Journal of Pioneering in Medical Sciences.
- iii. Recognition as a supervisor for guiding Ph.D scholars
- iv. Member of board of examiners at Annamalai university, Chidambaram.
- v. Reviewer in national and international journals

### **Dr. Sitanshu Sekhar Kar**

- i. Editor of International Journal of Medicine and Public Health
- ii. Editorial Board member of NTTC bulletin, JIPMER Annual Report
- iii. Reviewer of BMC Health, Health Promotion International, International Journal of Medicine and Public Health, Indian Journal of Community Health, IJOEM, IJMS, Journal of Pharmacology and Therapeutics and Indian Journal of Public Health.

### **Dr. Swaroop Kumar Sahu**

- i. Reviewer of Indian Journal of Community Medicine (IJCM) and International Journal of Advanced Medical Research (IJAMR)

### **Dr. Palanivel C**

- i. Reviewer for Indian Journal of Medical Research, National Medical Journal of India, Indian Journal of Public Health, International Journal of Medicine and Public Health, African Health Sciences, International Journal of Preventive Medicine, Public Health Action

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### **Dr. Gautam Roy**

- i. Member of JIPMER Scientific Advisory Committee
- ii. In-charge of Central Workshop, JIPMER
- iii. Member of core committee for intern's orientation programme.
- iv. Member of Hospital Nutrition Committee
- v. Member of House Allotment Committee
- vi. Member of task force for implementation of RNTCP for Medical officers.
- vii. Guide/Co-guide for six MD candidates and one nursing student.
- viii. External examiner for UG and PG to Orissa, RGUHS Karnataka, MGR University.
- ix. Evaluated Theory papers for DNB course in Community Medicine
- X. Consultant for ICDS monitoring project for UT of Puducherry under taken by National Institute of Public Cooperation and Child Development (NIPCCD).

### **Dr. K C Premarajan**

- i. Project coordinator for the institute to coordinate developmental activities (infrastructure development and facility management).
- ii. Member of the Senior Leadership Group of JIPMER in his capacity as project coordinator.
- iii. Member of Expert Committee for Equipment Procurement and Maintenance at Raja Muthia Medical College, Chidambaram, Tamilnadu.

## Preventive and Social Medicine

- iv. Guide/Co-guide for five MD candidates.
- v. Faculty in Charge of undergraduate teaching programs of the department of PSM and Rural Health Center, Ramanathapuram.
- vi. Warden for Lister and Osler house.
- vii. Postgraduate thesis evaluator for Ramachandra university, Porur, Chennai, Delhi University and KLE university Belgaum, Karnataka.
- viii. Internal examiner for MD and MBBS at JIPMER and External examiner for MD examination at Kerala University of Health Sciences.
- ix. Monitored the ICDS activities in Union Territory of Puducherry.

### Dr. Sonali Sarkar

- i. Faculty in-charge of JIRHC from March 2013 to Feb 2014.
- ii. In charge of Postgraduate studies in the Dept of PSM, JIPMER.
- iii. Guide/Co-guide for three MD candidates and one MSc Community Nursing student.
- iv. Actively engaged in UG (MBBS, BSc MLT), PG, MPH and PGDPHM teaching and assisted in planning and implementation of Community Diagnosis postings.
- v. Consultant for ICDS monitoring project for UT of Puducherry under taken by the National Institute of Public Cooperation and Child Development (NIPCCD). Monitored the ICDS activities in Union Territory of Puducherry.
- vi. Member of JIPMER Official Language Implementation Committee.
- vii. Member of PAC/RRC committee, JIPMER.
- viii. Was a member of Vidyalaya Management Committee of Kendriya Vidyalaya No.1, JIPMER, Puducherry till June 2013.
- ix. Member of Essential Medicine List committee of JIPMER.
- x. Member of UG Research Monitoring committee, JIPMER.
- xi. Participated in PG Research Monitoring Committee, JIPMER as a member.

### Dr. Ganesh Kumar S

- i. In charge of PGDPHM course
- ii. Actively engaged in UG, PG, PGDPHM and MPH teaching and Community Diagnosis postings.
- iii. Guide/Co-guide for three MD candidates, one PGDPHM, nursing and one ICMR STS student.
- iv. Assisted in smooth functioning of RHC activities.
- v. External examiner for MBBS in Manipal University and Annamalai University and for PGDPHM in IIPH, Hyderabad. Setting the Question Papers/examiner for board of medical education, Indira Gandhi General Hospital and Postgraduate Institute, Puducherry.
- vi. Institute Representative to Bangalore center for JIPMER PG entrance examination.
- vii. Consultant for ICDS monitoring project for UT of Puducherry under taken by National Institute of Public Cooperation and Child Development (NIPCCD).

### Dr. Sitanshu Sekhar Kar

- i. MPH coordinator and Faculty In-charge of MPH studies
- ii. In charge of Integrated Disease Surveillance Project (IDSP) activities. The department of PSM acts as the nodal department for IDSP activities at JIPMER
- iii. Consultant for ICDS monitoring project for UT of Puducherry under taken by National Institute of Public Cooperation and Child Development (NIPCCD).
- iv. Assistant faculty In-charge for Undergraduate studies (MBBS)
- v. Assistant faculty In-charge for PG studies, Dept. of PSM
- vi. Actively engaged in PGDPHM teaching in Dept. of PSM
- vii. Faculty In-Charge for Urban Health Center, Department of PSM, JIPMER (till 28th Feb 2014).
- viii. Selected as a reviewer of dissertation for MPH course by PGIMER, Chandigarh.

**Dr. Swaroop Kumar Sahu**

- i. Faculty-in-Charge from JIPMER for ICDS monitoring as part of State Monitoring Unit of ICDS for UT of Puducherry.
- ii. Faculty-in-Charge of Urban Health Center, Department of PSM, JIPMER from Mar 2014 and have assisted the previous faculty-in-charge of Urban Health Center and Rural Health Centre, Department of PSM, JIPMER.
- iii. Faculty-in-Charge of BSc MLT course from Department of PSM, JIPMER.
- iv. Actively engaged in UG (MBBS, BSc MLT), MPH, PGDPHM and PG teaching
- v. Guide/Co-guide for three MD candidates, two MSc Nursing and one under-graduate (MBBS) student
- vi. As a member of JIPMER Quality Council (JQC) has facilitated the following activities along with other JQC members
  - a. Training on Fire Safety for 1st year MBBS students and staff and faculty of Academic block
  - b. Fire drill in Library
  - c. Attended the CME program and workshop for new JQC members
- vii. Consultant for ICDS monitoring project for UT of Puducherry under taken by National Institute of Public Cooperation and Child Development (NIPCCD)
- viii. Was the Chief supervisor for Post Graduate MD Examination in April, 2013
- ix. Contributed to modular teaching modules—(1) Injury Module (along with Surgery department) and (2) Malaria Module (along with Pharmacology department)

**Dr. Palanivel C**

- i. Assistant In-charge of Postgraduate studies in the Department of PSM, JIPMER.
- ii. Guide for PGDPHM candidate and co-guide for MSc Community Nursing student
- iii. Involved in monitoring and supervision of Pre-Surveillance Assessment (PSA) for Integrated Biological and Behavioral Surveillance (IBBS) in Puducherry and selected districts of Tamil Nadu in July and August 2013.
- iv. Nodal person in organizing the national level training workshop on 'National Data Analysis Plan' for Department of AIDS Control, MOHFW, Govt. of India.
  - v. Involved in monitoring of ICDS activities in Union Territory of Puducherry.
- vi. State Co-ordinator for Iodine Deficiency Elimination, Tamil Nadu and Puducherry.
- vii. Member of State Surveillance Team for HIV surveillance activities, Tamil Nadu State Aids Control Society (TANSACS) for Tamil Nadu and Puducherry.
- viii. Assisted in organizing the "Collaborative meeting between JIPMER and Johns Hopkins University on Lung Cancer and COPD" on January 27 and 28, 2014

**Dr. Subitha L**

- i. Co-guide for 1 nursing student.
- ii. Monitoring of ICDS activities in Union Territory of Puducherry

**Dr. Mahalakshmy T**

- i. Member of Institute Review Board of Indira Gandhi Dental College and Institute of Sri Balaji Vidyapeeth, Puducherry.
- ii. Member of Ethics Committee of Sri Manakula Vinayagar Medical College and Research Institute, Kalitheerthalkuppam, Puducherry.
- iii. Reviewer of International journal of Medicine and Public Health.
- iv. External Examiner for MSc Public Health Entomology, at VCRC, Puducherry.
- v. Co-guide for one nursing student.

## Preventive and Social Medicine

- vi. Monitored the ICDS activities in Union Territory of Puducherry.
- vii. Assistant Co-ordinator of IDSP in the Department.
- viii. Assisted in the public health retreat “Transforming Public Health Education in India” conducted in JIPMER, March 10–11, 2014

### Dr. Jayalakshmy R

- i. Reviewer of International Journal of Medicine and Public Health and International Journal of Pediatrics
- ii. Assistant coordinator for MPH curriculum development and teaching.
- iii. Assistant faculty in-charge for UHC activities.
- iv. External examiner for BSc MLT at Mother Teresa on 10.1.2014
- v. External examiner for BSc MLT at Srivenkateswara College of paramedical on 9.1.2014
- vi. Co-guide for one of the MSc nursing student from JIPMER for the project titled “Impact of video assisted health education on self-breast examination among college students”.
- vii. Consultant for ICDS monitoring project for UT of Puducherry under taken by National Institute of Public Cooperation and Child Development (NIPCCD).
- vii. Delivered interactive lecture on “AFP surveillance strategies in Polio” for residents and interns organized by department of pediatrics at SMVMC &H on January 24, 2014.
- ix. Pursuing “Postgraduate diploma in family medicine”.
- x. Assisted in the public health retreat “Transforming Public Health Education in India” conducted in JIPMER, March 10–11, 2014
- xi. Chief supervisor for MD (community medicine) clinical examination in the department on 31.3.2014 and 1.4.2014.

## SIGNIFICANT EVENTS IN THE DEPARTMENT

- i. Upgradation of JISPH was initiated under 12th 5 year Plan. Detailed Project Report (DPR) of JISPH was approved by Standing Finance committee (SFC).
- ii. Master of Public Health (MPH) Course was started in January 2014.
- iii. The following outreach health camps were held:-

S. No.	Date	Health Camp	Place
1.	08.4.2013	Screening camp	Nehru College
2.	24.8.2013	Camp	Abhisehekapakkam
3.	24.2.2014	Camp	Neyveli

- iv. The following guest speakers visited the Department of PSM
  - a. John Hunter, Dean (academics) of Harvard School of Public Health
  - b. Prof. Richard Cash, Prof. Ashish Jha, and Prof. Peter Berman, Faculty from Harvard school of Public Health
  - c. Professor Kevin Peterson (USA)
  - d. Professor Simon Croft, Dean of infectious Disease Division, London School of Hygiene and Tropical Medicine
  - e. Professor S S Vasani (Public Health England) – took MPH module on Health Economics.

# Psychiatry

## FACULTY LIST

1. OFFICER IN-CHARGE	Prof. D. K. S. Subrahmanyam
2. ASSOCIATE PROFESSORS	: i. Ravi Philip Rajkumar ii. Shivanand Kattimani
3. ASSISTANT PROFESSORS	: i. Vikas Menon ii. Balaji Bharadwaj

## BACKGROUND INFORMATION OF THE DEPARTMENT

The Department of Psychiatry became functional in the year 1961 with Prof N.C. Surya as its head. The department was the first in the country to start teaching behavioural sciences to undergraduate medical students and later the practice was taken up by other medical colleges. For over 50 years, the department has provided high-quality care to patients with mental illnesses and substance use disorders. It is actively involved in clinical care and training, as well as research. The Department provides up-to-date consultation-liaison psychiatry services to address psychiatric issues in patients who are medically ill. The Department also caters to the needs of various special populations through specialty clinics and inter-departmental collaborations. Undergraduate and postgraduate students of various disciplines are trained, and conduct research, under the guidance of the Department.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

The Department provides theoretical and clinical training in psychiatry to students of the following courses

- i. **MBBS:** MBBS students receive a series of 10 didactic lectures on the fundamentals of psychiatry in their 6th semester. They are also posted in the Department for clinical exposure twice: for 15 days during their 6th semester, and for 15 days during their internship.
- ii. **B. Sc. (Nursing):** B. Sc. (Nursing) students receive a series of 12 didactic lectures on psychiatry as it pertains to nursing care in their third year. They are also posted to the out- and in-patient sections of the Department for a period of 2 months.
- iii. **B. Sc. (MLT):** B. Sc. (MLT) students receive a series of four lectures on the classification and diagnosis of mental disorders.

### *Postgraduate Courses*

- i. The MD (Psychiatry) course is conducted by the Department, with two new students being taken every year. The intake has been increased to three from the March 2014 session.
- ii. The M. Sc. (Psychiatric Nursing) course provides postgraduate level training in psychiatric nursing. The course involves active participation in out-patient and in-patient clinical work. The students are also required to complete a project related to mental health nursing.

## Psychiatry

- iii. Students of M. Sc. (Biochemistry) have the option of conducting their dissertation on a topic related to mental health, with the co-guidance of faculty from the Department.
- iv. M. Sc (Applied Psychology) and M. S. W (Social Work) students from Pondicherry University are also posted in the Department for a training period of 2–3 months.

### Higher Specialty Courses

None

### Research Courses

The Department provides guidance to Ph. D. scholars and MD students from other Departments, whose research topic involves studying patients with mental illness.

### Paramedical Courses

- i. The Department of Psychiatry conducts a series of lectures on Neuromodulatory techniques including electroconvulsive therapy and repetitive transcranial magnetic stimulation for B.Sc. Neurotechnology course.
- ii. The department also conducts a four lecture series on psychiatric terminology for Medical Records Officers (MRO) each year.
- iii. The department provides training to students pursuing their Diploma in Emergency Medical Technology, including sessions on stress management and behavioural emergencies.

## CONFERENCES AND CMES ORGANIZED BY THE DEPARTMENT

The 28<sup>th</sup> Annual Conference of the Tamil Nadu Chapter of the Indian Psychiatric Society (TANPSYCON) was conducted on June 29<sup>th</sup> and 30<sup>th</sup>, 2013 at the Auditorium, JIPMER. The Director of JIPMER, Prof. T.S. Ravikumar was the Chief Patron of the conference, Thiru N. Rangasamy Hon'ble Chief Minister of Pondicherry was the Chief Guest, Dr Ravi Philip Rajkumar was the Organising Co-Chairman, Dr Shivanand Kattimani was the Organising Secretary and Dr. Vikas Menon was the Treasurer. The conference saw the attendance of over 300 delegates from all over Tamil Nadu, Pondicherry and other states.

## CONFERENCE AND CMES ATTENDED BY THE FACULTY

### Dr. Ravi Philip Rajkumar

#### International

- i. Chaired a session and delivered a talk on “Sexual disorders in patients with psychiatric disorders” at the 7<sup>th</sup> Annual International Conference on Sexology, held on February 15<sup>th</sup>–16<sup>th</sup> at Hotel Green Park, Chennai.

#### National/Regional

- i. 28<sup>th</sup> Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29<sup>th</sup> and 30<sup>th</sup> 2013 at JIPMER, Puducherry
- ii. Delivered a lecture on “Dynamics of stress and relaxation” for the CME on Stress Management organized by Sabari College of Nursing on September 11<sup>th</sup>, 2013.
- iii. Delivered lectures on “Use of cognitive-behavioural techniques in communication” at two workshops conducted by the College of Nursing, JIPMER, in January and February 2013.
- iv. Was a resource person at the Workshop on Patient Safety held at JIPMER on November 23<sup>rd</sup>–24<sup>th</sup>, 2011.
- v. Presented a paper on “Donepezil-induced mania following head injury” at the monthly meeting of the Pondicherry Association of Neuroscientists on January 5<sup>th</sup>, 2014.

**Dr. Shivanand Kattimani****International**

- i. Attended and presented papers on 'Changing patterns of child guidance clinic running over 20 years at JIPMER' and 'Autistic spectrum traits in children diagnosed with ADHD' at 7th congress of Asian Society for Child and Adolescent Psychiatry and Allied Professionals, from 25th to 28th September, 2013 at New Delhi, India.

**National**

- i. 28th Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29th and 30th 2013 at JIPMER, Puducherry.
- ii. Attended and presented paper on 'Awareness of legal status on suicide attempt in India among persons with suicide attempt' at XX National Conference of the Indian Association for Social Psychiatry (NCIASP), November 8th to 10, 2013, Kolkata, West Bengal.
- iii. Attended and delivered lecture as part of symposium on 'Cognitive deficits in persons with severe mental illness' at XX National Conference of the Indian Association for Social Psychiatry (NCIASP), 8th to 10th November 2013, Kolkata, West Bengal.
- iv. Attended and presented papers on 'Benzodiazepine maintenance for alcohol dependent patients: case series' and on 'Difference in frequency of medical morbidities at presentation among alcohol dependents compared to those dependent on alcohol and nicotine concurrently' at 66th Annual Conference of the Indian Psychiatric Society (ANCIPS), held from 16th to 19th January 2014, at Pune, Maharashtra.
- v. Attended and presented poster paper on 'Does tobacco use decrease psychiatric morbidity in alcohol dependents?' at 66th Annual Conference of the Indian Psychiatric Society (ANCIPS), held from 16th to 19th January 2014, at Pune, Maharashtra.
- vi. Attended and delivered lecture as part of symposium on 'Different successful models of psychosocial rehabilitation at a General Hospital Psychiatric Unit-JIPMER experience' at National Conference on Research and Services in Psychiatric Rehabilitation: Focus on Recovery, on 8th and 9th March, 2014, NIMHANS, Bangalore, Karnataka.
- vii. Attended one day monothematic workshop on Brain Death organized by working group on Organ Donation(Puducherry) and Mohan Foundation(Chennai), on September 21, 2013, at JIPMER, Puducherry.

**Dr. Vikas Menon****National**

- i. 28<sup>th</sup> Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29th and 30th, 2013 at JIPMER, Puducherry
- ii. Workshop on Question Paper Setting—Part 1 organized by NTTTC JIPMER for the faculty on July 7, 2013 at JIPMER.
- iii. Workshop on MCQ setting organized by NTTTC JIPMER for the faculty on August 11, 2013 at JIPMER. (granted 5 credit points by JIPMER).
- iv. Resource person for 67<sup>th</sup> National Course in Educational Science for teachers of health professionals from September 12–21, 2013 conducted by NTTTC, JIPMER. (granted 30 credit points by JIPMER).
- v. CME and Workshop on Patient Safety organized by JIPMER Quality Council (JQC) on 23rd and November 24, 2013.
- vi. Short Course on Multiple Linear Regression, Logistic Regression and Survival Analysis organized by Dept. of Biostatistics, Christian Medical College, Vellore from December 02–06, 2013.

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- vii. Resource person for 68<sup>th</sup> National Course in Educational Science for teachers of health professionals from February 20–Mar 1st, 2014 conducted by NTTC, JIPMER. (granted 30 credit points by JIPMER).
- viii. Resource person for 69 National Course in Educational Science for teachers of health professionals from Mar 6–15, 2014 conducted by NTTC, JIPMER. (granted 30 credit points by JIPMER).

### Dr. Balaji Bharadwaj

#### International

- i. Presented a paper titled, “So similar yet so dissimilar: a teaching method to improve diagnostic accuracy among first year psychiatry residents” at the 2nd Joint Conference of NIMHANS, Bangalore and Royal College of Psychiatrists, UK (NIMRCPSYCON 2014) held at Convention Centre, NIMHANS, Bangalore on March 7 and 8, 2014.

#### National

- i. 28<sup>th</sup> Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29 and 30, 2013 at JIPMER, Puducherry
- ii. Attended the Second Early Career Mental Health Professionals Workshop conducted by Prof. Norman Sartorius, former Director, Department of Mental Health, WHO Geneva held at Convention Centre, NIMHANS, Bangalore from January 9 to 11, 2014.

### Research Projects

S. No	Name of Investigator	Title of Project	Duration of Project	Funding Agency	Collaborating Institution/ Department	Status
1.	Dr. Ravi Philip Rajkumar	A study of psychosocial distress and quality of life in women with infertility	1 year	None	Obstetrics and Gynecology	Ongoing
2.	Dr. Ravi Philip Rajkumar	A study of oxidative stress and DNA damage in patients with dementia	1 year	Intramural	Anatomy	Ongoing
3.	Dr. Shivanand Kattimani	Community Based Intervention for Depression among Elderly	1.5 year	ICMR	Preventive & Social Medicine	Completed
4.	Dr. Shivanand Kattimani	Spirituality among medical students	1 year	Non funded	–	Completed
5.	Dr. Shivanand Kattimani	Adapting ACE-III, a dementia screening questionnaire for Tamil speaking population	1 year	Non funded		Ongoing
6.	Dr. Shivanand Kattimani	Stigma and its correlates in schizophrenia and related psychotic disorders: a multi centric cross-sectional study	2 year	Non funded		Ongoing
7.	Dr. Vikas Menon	Explanatory models and psychiatric morbidity in patients with medically unexplained symptoms	2 years	None	Medicine	Ongoing



8.	Dr. Vikas Menon	Assessment of Inflammatory markers in depression: A follow-up study	2 years	JIPMER Intramural Fund 1.5 Lakhs	Clinical Immunology	Ongoing
9.	Dr. Vikas Menon	Attitudes towards medical specialties as a career option among students entering medical school with a special reference to Psychiatry	1 year	None	Anatomy	Completed
10.	Dr. Vikas Menon	Smoking and suicide: Can the association be explained by underlying neurocognitive impairments?	1 year	None	Weil-Cornell Medical College, Qatar	Ongoing

## PUBLICATIONS

### Journals

1. Rajkumar RP. Prolactin and psychopathology in schizophrenia: a literature review and reappraisal. *Schizophrenia Research and Treatment* 2014 (published 27/3/2014)
2. Rajkumar RP, Bharadwaj B. Dhat syndrome: evidence for a depressive spectrum subtype. *Asian J. Psychiatry* 2014 (published 29/1/2014)
3. Rajkumar RP. Substance use disorders in men presenting to a psychosexual clinic. *ISRN Addiction* 2014 (published 6/1/2014)
4. Rajkumar RP. Neuroplasticity and outcome in schizophrenia: the role of psychological interventions. *Dysphrenia* 2013; 4(2): 89–96.
5. Menon V, Ramamourty P, Ayyanar S. Transient, asymptomatic, fluctuating bradycardia with oral ziprasidone in an older woman. *Aust. NZJ Psychiatry* 2014; 48: 201–202. (IF 3.293)
6. Narayan SK, Verman A, Kattimani S, Ananthanarayanan PH, Adithan C. Plasma homocysteine levels in depression and schizophrenia in South Indian TAMILIAN population. *Ind. J. Psychiatry*. 2014; 56:46–53. (IF 0.94)
7. Srinivasaraghavan R, Mahadevan S, Kattimani S. Impact of Comorbidity on Three Month Follow-up Outcome of Children with ADHD in a Child Guidance Clinic: Preliminary Report. *Ind. J Psychol. Med.* 2013;35:346–351.
8. Ramamourthy P, Kumaran A, Kattimani S. Risperidone associated paralytic ileus in schizophrenia. *Ind. J. Psychol. Med.* 2013;35:87–88.
9. Kattimani S, Bharadwaj B, Kumaran A. Referral patterns in de-addiction services: An experience from a single centre. *The Ind. J. Med. Res* 2013;138: 360–361. (IF 2.061)
10. Kattimani S, Menon V, Shrivastava MK. Is Semen loss syndrome a psychological or physical illness? A case for conflict of interest. *Ind. J. Psychol. Med.* 2013; 35: 420–422.
11. Menon V, Harichandrakumar KT. “Sleep in Wilson’s disease: Questionnaire based study”- Comments on the article. *Ann Ind. Acad. Neurol.* 2013; 16: 458. (IF 0.928)
12. George M, Amrutheshwar R, Rajkumar RP, Kattimani S, Dkhar SA. Newer antipsychotics and upcoming molecules for schizophrenia. *Eur. J. Clin. Pharmacol.* 2013;69:1497–1509. (IF 2.74)
13. Aishwarya S, Rajendiren S, Kattimani S, Dhiman P, Haritha S, Ananthanarayanan PH. Homocysteine and serotonin: association with postpartum depression. *Asian. J. Psychiatr.* 2013;6:473–477.
14. Menon V. Suicide risk assessment and formulation: An update. *Asian. J. Psychiatr.* 2013; 6: 430–435.

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15. Menon V, Kattimani S, Shrivastava MK, Thazath HK. Clinical and socio-demographic correlates of suicide intent among adolescents with deliberate self-harm – a hospital based study *Crisis* 2013; 34: 282–288. (IF 1.570)
16. Bharadwaj B, Ayyanar S, Mahadevan J, Rajkumar RP. Non-convulsive status epilepticus presenting with catatonia and suicidal behavior. *International Journal of Nutrition, Pharmacology, Neurological Diseases* 2013;3:153. (IF N.A.)
17. Sarkar S, Bhardawaj B. Attitudes influencing clozapine initiation. *Acta Psychiatrica Scandinavica* 2013;129: 320. (IF 4.857)
18. Patra AP, Bharadwaj B, Shaha KK, Das S, Rayamane AP, Tripathi CS. Impulsive frotteurism: a case report. *Med Sci Law.* 2013; 53:235–238. (IF 0.484)

### Patient Care Services

#### Clinical Services

The Department provides mental health care of the highest standard using a multi-disciplinary approach, based on the bio-psycho-social model. Patients are managed by a team which includes psychiatrists, psychologists, social workers, psychiatric nurses, and an occupational therapist.

In-patient services are provided for acutely ill and disturbed patients, and those with complex problems. There is a total bed strength of 27 beds in the general, of which 6 are specifically allotted to patients with drug and alcohol dependence.

Out-patient services run on all working days (Monday to Saturday) and include screening, detailed evaluation, follow-up and referral services. Follow-up clinics are segregated according to diagnosis, with separate days for patients with mood disorders, psychotic disorders, and neuropsychiatric disorders. Separate out-patient clinics for children are run in the Department of Pediatrics, and in collaboration with them.

JIPMER is a Regional Centre for De-Addiction in South India. A once-weekly de-addiction clinic caters to the needs of patients with alcoholism and drug addiction, and includes a Tobacco Cessation Clinic, as well as group therapy for alcoholics and their families.

Suicide is a major public health problem in Puducherry. To address this, the Department runs a Crisis Intervention Clinic every Thursday, which includes diagnostic, counseling and referral services.

The Psychosomatic Clinic was started on 7 November, 2013. The weekly clinic caters to patients with medically unexplained physical symptoms and provides multi-disciplinary care with inputs of a psychiatrist, psychologist and medical social worker. It aims to enhance the standard of care provided to patients with psychosomatic disorders.

The following is the full list of special clinics run by the Department of Psychiatry:

Day of the Week	Special Clinic
Monday	Marital and Psychosexual Clinic
Tuesday	Affective Disorders Clinic
Wednesday	Memory Clinic Child Psychiatry Forum (Afternoon)
Thursday	Crisis Intervention Clinic Psychosomatic Clinic Child Guidance Clinic (Afternoon)
Friday	Psychotic Disorders Clinic
Saturday	Neuropsychiatry Clinic De-Addiction Clinic (including Tobacco Cessation Clinic)

Patient attendance statistics for the period 1-4-2013 to 31-3-2014 are as follows:

Facility	Total Attendance		
	New Cases	Old Cases	Total
General Psychiatry	3,922	54,794	58,716
Affective Disorders Clinic (Follow-up Clinic)		17,656	17,656
Crisis Intervention Clinic	153		153
De-Addiction Clinic	1,147	1,185	2,332
Psychotic Disorders Clinic (Follow-up Clinic)		17,691	17,691
Neuropsychiatric Disorders Clinic (Follow-up Clinic)		13,194	13,194
Psychosomatic Disorders Clinic	43	8	51
Marital and Psychosexual Clinic	38	15	53
In-patient admissions	470		

Equipment available for diagnosis, patient care and research in the Department includes:

- i. Brief Pulse Electro-Convulsive Therapy (ECT) machine, used for the administration of modified ECT, given under general anaesthesia. ECT is given twice a week (Mondays and Thursdays) to both in- and out-patients who require it.
- ii. Transcranial Magnetic Stimulation (TMS) apparatus, for therapeutic and research purposes.
- iii. EMG Biofeedback apparatus, as part of relaxation therapy administered by the Clinical Psychologist.
- iv. 64-channel Electro-Encephalography (EEG) apparatus, including facilities for Video EEG and Event-Related Potentials.

### Laboratory Services

- i. The laboratory in the Department of Psychiatry carries out the following investigations:
- ii. Erythrocyte Sedimentation Rate (ESR)
- iii. Urine routine (albumin/sugar)
- iv. Stool examination
- v. Serum electrolytes
- vi. Serum lithium estimation, for patients with bipolar disorders.

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

### *Dr. Ravi Philip Rajkumar*

#### Membership

- i. Life Member, Indian Psychiatric Society
- ii. Life Associate Member, Pondicherry Association of Neuroscientists

### *Dr. Shivanand Kattimani*

#### Membership

- i. Life Member Indian Association for Child and Adolescent Medicine
- ii. Life fellow of Indian Psychiatric Society (IPS)
- iii. Executive Committee Member of Tamilnadu State Branch of Indian Psychiatric Society (from July 2013)
- iv. Member, Committee for Brain Death Certification for Organ Transplantation, JIPMER

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### **Dr. Vikas Menon**

- i. Appointed as subject expert and paper Setter for the National Board of Examinations, New Delhi in 2013.
- ii. Appointed as expert reviewer for International Journal of Advanced Medical Research (IJAMR) in Feb 2014.

### **Dr. Balaji Bharadwaj**

#### **Membership of Professional Bodies**

- i. Life Member of Indian Psychiatric Society

#### **Award Won**

- i. Winner of the “Teach-out-of-the-Box” presentation for innovative teaching method by junior level faculty at the 2nd Joint Conference of NIMHANS, Bangalore and Royal College of Psychiatrists, UK (NIMRCPSYCON 2014) on March 8, 2014.

#### **Reviewer**

- i. Appointed as expert reviewer for International Journal of Advanced Medical Research (IJAMR) in Feb 2014.

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### **Dr. Ravi Philip Rajkumar**

- i. Member, JIPMER Quality Council
- ii. Member, JIPMER Student Counselling Committee
- iii. Member, JIPMER Pharmacovigilance Committee
- iv. Central Assistant Public Information Officer, Department of Psychiatry, JIPMER under the RTI Act.
- v. Guest Faculty and Examiner in Neuropsychology, Department of Applied Psychology, Pondicherry University
- vi. External Subject Expert (Psychiatry), AIIMS, Patna
- vii. As MD guide: “A study of depression in SLE and its relationship to neuropsychological status and antibody profile” (Candidate: Dr. Vivek Arun Kumar, MD)
- viii. As MD co-guide: “A study of pro- and anti-inflammatory markers in depression” (Guide: Dr Vikas Menon; Candidate: Dr. Avin M., MD)
- ix. As PhD co-guide: “Pharmacogenomics of risperidone in South Indian schizophrenia patients) (Guide: Prof D.G. Shewade, Dept. of Pharmacology; Candidate: Mr. Charan Raj Goud)
- x. Organising Co-Chairman of the 28<sup>th</sup> Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29<sup>th</sup> and 30<sup>th</sup> 2013 at JIPMER, Puducherry.

### **Dr. Shivanand Kattimani**

- i. Organising Secretary of the 28th Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29 and 30, 2013 at JIPMER, Puducherry.
- ii. Worked in the scientific committee for 2 days meet on Transforming Public Health Education in India organized by JIPMER, in collaboration with MoH&FW, and Harvard School of Public Health, 10th -11th March 2014, held at JIPMER, Puducherry.

- iii. Guide for thesis:
  - a. MD(Psychiatry)-1
- iv. Co-guide for thesis
  - a. MD(Psychiatry)-1
  - b. MD(Pharmacology)-1
  - c. MD (PSM)-2
  - d. MS(Ophthalmology)-1
  - e. MSc Biochemistry dissertations-2
  - f. MSc Nursing dissertations-2
  - g. Post MD fellowship in Neonatology-1

### **Dr. Vikas Menon**

- i. Organising Treasurer of the 28<sup>th</sup> Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29<sup>th</sup> and 30<sup>th</sup> 2013 at JIPMER, Puducherry
- ii. Started a new specialty clinic “Psychosomatic Clinic” on November 7<sup>th</sup>, 2013 in order to improve standards of care, follow up rates and satisfaction of patients presenting with medically unexplained symptoms to Psychiatry OPD.
- iii. Developed Transplant Evaluation and Screening Performa for the Dept. of Psychiatry, JIPMER in order to structure the assessment of patients posted for organ transplantation and make it more comprehensive as part of efforts to improve patient care services.
- iv. Member of the Essential Medicines List (EML) Committee of JIPMER set up to facilitate, prepare, plan and implement the EML list prepared by individual departments.
- v. Member of the Student Counseling and Advisory Group set up in order to provide help and support to students facing emotional or adjustment problems during their study period in JIPMER.
- vi. Member of the NTTTC Core Faculty Group of JIPMER involved in medical education and organizing biannual national courses for teachers of health professionals from all over the country.
- vii. Was the Centre In-charge (chief supervisor) for MTS/LDC/Steno-GRII Written test held at Presidency Hr. Sec. School on 09.02.2014.
- viii. Guide for MD Dissertation—1  
Co-Guide: MD (1)  
M.Sc (Psychiatric Nursing)—1

### **Dr. Balaji Bharadwaj**

- i. Member of Souvenir Committee and Scientific Committee of the 28<sup>th</sup> Annual Conference of the Indian Psychiatric Society, Tamil Nadu Branch on June 29 and 30, 2013 at JIPMER, Puducherry.
- ii. Co-guide for MSc (Psychiatric Nursing) student Ms V. Sudha for her thesis titled “Effect of supportive group therapy on stress and hope among the wives of clients with alcohol dependence attending JIPMER hospital”.

## **SIGNIFICANT EVENTS IN THE DEPARTMENT**

- i. Dr. Ravi Philip Rajkumar and Dr Shivanand Kattimani were promoted to the post of Associate Professor of Psychiatry after the Assessment Promotion Scheme (APS) interview held in October 2013.
- ii. Dr. Balaji Bharadwaj joined as Assistant Professor of Psychiatry on November 21, 2013.

# Pulmonary Medicine

## FACULTY LIST:

- |                                                   |   |                       |
|---------------------------------------------------|---|-----------------------|
| 1. PROFESSOR AND HEAD OF THE DEPARTMENT           | : | S. Vinod Kumar        |
| 2. ASSISTANT PROFESSOR                            | : | R. Manju              |
| 3. ASSISTANT PROFESSOR (JOINED ON MARCH 20, 2014) | : | Dharm Prakash Dwivedi |

## BACKGROUND INFORMATION OF THE DEPARTMENT

M.D. (Pulmonary Medicine) course was started in April 1994.

### **Educational Courses**

M.B.B.S., (Theory as well as clinics for Batch VI and VII Semester)  
M.D. (Pulmonary Medicine),  
Emergency Medical Technician Training Course (Theory)  
Medical Record Officers (M.R.O)

## CONFERENCE AND CMES ORGANIZED BY THE DEPARTMENT

We have celebrated awareness programme on tuberculosis and those patients completed treatment were complemented with gifts on March 24, 2014 on occasion of World Tuberculosis day.

## CONFERENCES AND CMES ATTENDED BY FACULTY

### **Dr. S. Vinod Kumar, Prof and Head**

- i. Participated as delegate in the RNTCP ZTF (South Zone II) workshop held at convention centre, Pondicherry September 5 and 6, 2013.
- ii. Participated in National Conference on Pulmonary diseases (NAPCON—2013 on November 28 and 29, 2013) in Chennai.
- iii. Attended the International COPD Conference at Pune from February 1 to 2, 2014

### **Dr. R. Manju, Asst. Prof**

- i. Delivered a talk on “Lung Cancer” at CME organized by the Radiotherapy Department, JIPMER, on April 27, 2013.
- ii. Participated in International pleuroscopy workshop in Chennai on June 5, 2013.
- iii. Participated in RNTCP ZTF (South Zone II) workshop held at convention centre, Pondicherry September 5–6, 2013.
- iv. Participated in public awareness programme and submitted an article regarding COPD to Tamil Magazine “Doctor Vikatan” on occasion of World COPD day on 20<sup>th</sup> November 2013 as per the CCS conduct rule No.8.

- v. Participated and presented a poster on “Pulmonary Lymphoma mimicking metastases” in National Conference on Pulmonary diseases (NAPCON – 2013 on Nov 28 and 29, 2013) in Chennai.
- vi. Attended the operation research workshop conducted in MGMC & RI on March 14, 2014.
- vii. Attended and presented the quarterly reports in RNTCP STF review meetings in all the four quarters.

### Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From ... to...)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012–2013 or Ongoing)
1.	Dr. S. Vinod Kumar	Sclerotherapy for malignant pleural effusions: A prospective randomized trial of vincristine, cisplatin and bleomycin.	2011–2014	Non funded	Nil	Ongoing
2.	Dr. R. Manju	Comparison of clinical radiological, laboratory manifestations and treatment outcome between younger and elderly patients with pulmonary tuberculosis.	2012–2014	Non funded	Nil	Ongoing

## PUBLICATIONS

### Journals

1. Babu RV, Manju R, Vinod Kumar S, Das AK. Occurrence of Diabetes mellitus in Pulmonary Tuberculosis Patients. WJMS 2013; 8: 345–348.
2. Babu RV, Manju R, Vinod Kumar S, Das AK. A Comparative Study of Diabetes Mellitus in Pulmonary Tuberculosis Patients. WJMS 2013; 9: 93–96.
3. Ranganadin P, Chinnakali P, Vasudevan K, Manju R. Respiratory Health status of traffic policemen in Puducherry, South India. Int. J. Curr. Res. Rev. 2013;05:07.
4. Panigrahi MK, Kumar NN, Jaganathan V, Vinod Kumar S. Pulmonary cryptococcosis with cryptococcal meningitis in an immunocompetent host. Lung India 2014; 31
5. Mishra P, Jacob SE, Basu D, Panigrahi MK, Govindaraj V. Bilateral Spontaneous Pneumothorax in Chronic Silicosis: A case Report. Case Reports in Pathology 2014; 10.1155/2014/561861.
6. Panigrahi MK, Venugopal J, Rammohan B, Vinod Kumar S. Successful noninvasive ventilation of acute respiratory failure associated with bronchiectasis in a patient with single lung. Transw. Med. J. 2013; 2:77–79.

## PATIENT CARE SERVICES

### OPD

New Cases: 4,066  
 Old Cases: 25,674  
 Total: 29,746

## Pulmonary Medicine

### **Total Cases Referred to DOT Centre**

Pulmonary Tuberculosis: 449

Extra Pulmonary: 591

Total: 1,040

### **Special Clinic**

Respiratory Allergy and Immunotherapy Clinic (Friday 2 to 4.30 p.m.)

New cases: 1,095

Old Cases: 9,255

Total: 10,350

#### **i. HIV/AIDS**

New cases: 21

Old cases: 4

Total: 25

#### **ii. Bronchoscopy: 229**

Endobronchial biopsy: 34

Bronchial washing: 352

Endobronchial brushing: 65

TBNA (Trans Bronchial Needle Aspiration):5

Bronchial Alveolar Lavage:4

#### **iii. Thoracoscopy (Medical): 15**

#### **iv. Respiratory Phsiotherapy: 1,960**

#### **v. Polysomnography: 25**

#### **vi. Mantoux: 2,835**

### **Laboratory**

#### **Pulmonary Function Test: 661**

Spirometry Procedure

**a.** Pre bronchodilator: 651

**b.** Post bronchodilator: 351

Diffusion Capacity Estimation: 97

### **AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS:**

Dr. R. Manju, Assistant Professor has received FCCP from US Chest Foundation in November 2013.

### **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

**Dr. S. Vinod Kumar**, Professor and HOD of Pulmonary Medicine.

### **Memberships in Official Committees**

- i.** JIPMER Library Committee
- ii.** JIPMER Selection Committee for appointment of Senior Residents
- iii.** RNTCP Core Committee, JIPMER.



- iv. JIPMER Departmental Promotion Committee (DPC)
- v. Vidyalaya Management Committee, Kendriya Vidyalaya No. 1, Puducherry—6  
Administrative memberships:
- vi. Liaison Officer for SC/ST, JIPMER.

### Memberships

- i. DPC member of Dept. of Census Operations, Puducherry (Govt. of India)
- ii. Life member of Indian Chest Society
- iii. Life member of Indian Association for Bronchology.
- iv. Member of World Association of bronchoscopy and Interventional Pulmonology.
- v. PMDT member

### MCI Inspectorships

- i. MCI Inspector

### Examinerships

- i. M.D. P.G. Examiner
- ii. DNB examiner.

### Guideships

- i. Guide/Co-guide for PG Resident's Dissertations.  
**Dr. R. Manju**, Assistant Professor
- i. Champion of JIPMER Quality Council.
- ii. Co-guide for the postgraduate research projects.
- iii. Member of Indian Medical Association.
- iv. Faculty-in-charge of E.M.T. Classes regarding Pulmonary Medicine 2013–2014 batch.

## SIGNIFICANT EVENTS IN THE DEPARTMENT

- i. Dr. Rajesh K Thimmulappa Faculty from Johns Hopkins Bloomberg School of Public, USA visited of our department on January 23, 2014 aiming for research collaborations with our department regarding COPD patients.
- ii. Interventional Thoracoscopy started in September 2013.

# Radiodiagnosis

## FACULTY LIST

- |                         |   |                                                                                |
|-------------------------|---|--------------------------------------------------------------------------------|
| 1. PROFESSOR AND HEAD   | : | S. Vivekanandam                                                                |
| 2. PROFESSOR            | : | S. Elangovan                                                                   |
| 3. ASSOCIATE PROFESSOR  | : | A. Ramesh                                                                      |
| 4. ASSISTANT PROFESSORS | : | i. S. Deepak Barathi<br>ii. A. Subathra<br>iii. Sunitha C.V<br>iv. Ramkumar. G |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department of Radio diagnosis offers quality diagnostic imaging services to all the out- patients and in-patients attending the main hospital, super specialty block, emergency medical services and regional cancer centre. There are two state-of-the-art 1.5 tesla MRI systems, three CT scanners, two 1,000 m. A digital image intensifiers, ultrasonography and X ray units in different locations within the hospital. Three Assistant Professors Drs. A.Subathra, Sunitha C.V and Ramkumar. G joined the department.

The department offers postgraduate MD course with intake of three students till 2013 and 6 students from 2014–2015. MD, MS, MCh and DM residents of various departments undergo rotatory postings in the department of Radiodiagnosis and are trained in the imaging aspects relevant to their specialities. Classes are taken for the undergraduate MBBS fourth semester students and students of allied paramedical courses on the basics of imaging. B.Sc. medical technology radio diagnosis will be started from 2014 with an intake of five students per year.

## EDUCATIONAL COURSES

- i. Undergraduate course: MBBS
- ii. Postgraduate Course: MD

## CONFERENCES AND CME'S ORGANISED BY THE DEPARTMENT

Nil

## CONFERENCES AND CME'S ATTENDED BY FACULTY

### *Dr. A. Ramesh*

- i. Attended the 66th state annual conference of Tamilnadu and Pondicherry chapter of IRIA held on 13 and 14 December at CMC Vellore organised by the Vellore region subchapter of IRIA.

- ii. Participated as faculty in the workshop on emergency ultrasound in the International Summit on Emergency Medicine and Trauma ISEMT 2014 held from 11–16 February 2014 at JIPMER, Puducherry.
- iii. Delivered a talk on the “Role of imaging in paediatric solid malignancies” in the Regional Pediatric Oncology Conference REPOC 2014 on March 8, 2014 organised by the Regional Cancer Centre and Department of Paediatric Surgery at JIPMER, Puducherry.
- iv. Participated as a faculty in the Postgraduate Instructional Course in Orthopaedics held from January 10 to 12, 2014 at JIPMER organised by the Department of Orthopaedics, JIPMER, Puducherry.

### Dr.S.Deepak Barathi

- i. Delivered a talk on “Doppler evaluation of the Hepatic Circulation” in 6th certificate course in Hepato-Pancreato-Biliary Surgery (August 28–September 1st, 2013) conducted by the International Hepato-Pancreato-Biliary Association (IHPBA), Indian Chapter.
- ii. Conducted a Workshop Demonstration on Liver Ultrasound in 6th certificate course in Hepato-Pancreato-Biliary Surgery (August 28th– September 1st, 2013) conducted by the International Hepato-Pancreato-Biliary Association (IHPBA), Indian Chapter.
- iii. Participated as Faculty in the workshop on “Emergency Ultrasound “in ISEMT 2014.
- iv. Delivered a guest lecture on “Imaging of the Male genital system” in National Cytocon 2013 on 3rd October, 2013.

### Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From... To...)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (completed in FY 2012–2013 or Ongoing)
1.	Dr. A. Ramesh	The pattern of anatomical variations in portal vein ramification based on triple phase contrast enhanced CT with 3D reconstruction.	2012-14	Nil	Surgical Gastro-Enterology	Ongoing

### PUBLICATIONS

#### Journals

1. Mahalakshmi VN, Barathi SD. An unusual content in a congenital hernia – complete spleno gonadal fusion band. *Ind. J. Surg.* 2013;75 (Suppl1):110–112.
2. Madhugiri VS, Gundamaneni SK, Santosh V, Jagadisan B, Sasidharan GM, Roopesh-Kumar RV, Yadav AK, Singh M, Ananthakrishnan R, Pariarath N, Biswal N. Acute pyogenic necrotizing encephalomyelitis: a fulminant and fatal infection. *J. Neurosurg. Pediatr.* 2013;11:591–595.
3. Madhugiri VS, Singh R, Vyavahare M, Vijayahari R, Sasidharan GM, Kuma VR, Jacob S, Verma SK, Ananthakrishnan R, Yadav AK, Gundamaneni SK. Opportunistic Fonsecaea pedrosoi brain abscess in a patient with non-cirrhotic portal fibrosis-induced hypersplenism--a novel association. *Br. J. Neurosurg.* 2013;27: 690–693.
4. Muthusami P, Bhuvanewari V, Elangovan S, Dorairajan LN, Ramesh A. The role of static magnetic resonance urography in the evaluation of obstructive uropathy. *Urology.* 2013; 81:623–627.(IF 2.424)

## Radiodiagnosis

5. Khilari M, Chakkalakkoombil SV, Wadwekar V, Nair PP. Sporadic Creutzfeldt-Jakob disease (sCJD) with asymmetric findings, BMJ Case. Rep. 2014.
6. Prakash ML, Sarwagi R, Ramkumar, Prabhakaran, Srilatha K. Spinal intramedullary tuberculoma: Typical, atypical presentation on Magnetic Resonance Imaging. J. Radiol. Case Reports 2013.
7. Prakash V, Krishnamurthy S, Mahadevan S, Bethou A, Deepak Barathi S. Infective endocarditis and septic pulmonary embolism following scorpion sting envenoming in a 11-year old child. Paediatr. Int. Child. Health. 2013 Dec (IF 0.92)
8. Ramesh A, Muthukumarassamy R, Karthikeyan VS, Rajaraman G, Mishra S. Pseudoaneurysm of internal carotid artery after carotid body tumor excision. Ind. J. Radiol. Imag. 2014;23: 208–211.
9. Sistla SC, Ramesh A, Karthikeyan VS, Ram D, Ali SM, Velayutham SSR. Gossypiboma presenting as coloduodenal fistula – Report of a rare case with review of literature. Int. J. Surg. 2013; 99: 000–000. (IF 1.293)
10. Sharma S, Murgai A, Nair PP, Ramesh A. Teaching NeuroImages: Snake eyes appearance in MRI in patient with ALS. Neurology. 2013 Jul 30;81(5):e29.
11. Subathra A, Sandhiya S, Kesavan R. An analysis of Adverse Drug Reactions to Radiographic contrast media Reported during a 3 year Period in a Tertiary Care Hospital in South India. Ind. J. Physiol. Pharmacol. 2014;58:45–50.
12. Wadhwa J, Ananthakrishnan R, Sadashiv S, Hamide A. Extrapontine myelinolysis: rare manifestation of a well-known disorder. BMJ Case Rep. 2013.

## PATIENT CARE SERVICES

We provide diagnostic services like Radiography, special radiological investigations, Ultrasound, Colour Doppler, CT, MRI, Mammography and Imaging guided diagnostic and therapeutic procedures to the out patients and inpatients of all Departments of JIPMER including patients from EMS, Regional Cancer Centre, and super speciality block. General X-rays, ultrasound and CT scan services are provided to the patients round the clock.

## AWARDS, HONOURS AND OTHER PERSONAL ACHIEVEMENTS

Statistics for the period from April 2013 to March 2014		
X- Rays	1. Routine	65,849
	2. Emergency	44,400
	3. M.L.C.	4,546
Special radiological Investigation	1. IVP	2266
	2. Barium and oral contrast studies	
	3. MCU,RGU	
	4. HSG	
	5. Loopogram, Fistulogram	
	6. Miscellaneous (Cystogram, Cavitogram, percutaneous Nephrogram, Cholangiogram, DCG)	
	<b>Total</b>	<b>117,061</b>
Mammography		<b>620</b>
Color doppler		<b>1,631</b>
Ultrasound	Routine	20,079
	Emergency	20,587

	Ultrasound guided procedure FNAC, Biopsy and Aspirations.	3,173
	<b>Total</b>	<b>43,839</b>
CT	Routine	16,413
	Emergency	9,462
	CT guided FNAC	76
	<b>Total</b>	<b>25,951</b>
MRI		<b>4,831</b>
Nil		

## **ADMINISTRATIVE, PATIENT CARE, EDUCATIONAL, RESEARCH AND OTHER ASSIGNMENTS**

### **Dr. S. Elangovan**

- i. MCI assessor for assessment of the physical and the other teaching facilities available at Guru Govind Singh Medical College, Faridkot.
- ii. MCI assessor for assessment of the physical and the other teaching facilities available for the renewal of permission for MBBS degree course at Mysore Medical College and Research Institute, Mysore.
- iii. Member of the Technical Evaluation Committee for the purchase of equipment's for the Department of Radio diagnosis under 5th Standing Finance Committee for Augmentation of OPD Services.
- iv. Chairman of the JIPMER Crowd management committee.
- v. Co-Guide for the following PG dissertation projects
  - a. Three Dimensional Magnetic Resonance Imaging Features in patients with Perianal Fistulae and its Co-Relation with Surgical Findings.
  - b. Diagnostic Role of Magnetic Resonance Spectroscopy and Diffusion Weighted Imaging in Differentiation of Malignant & Non- Malignant Brain Lesions
  - c. Diagnostic Role of Static & Dynamic Contrast Enhanced Magnetic Resonance Imaging in the Evaluation of Soft Tissue Tumours.
- vi. Co-guide for various inter-departmental MD/MS/MCh projects

### **Dr. A. Ramesh**

- i. Member of the Committee for the Augmentation of Casualty Services.
- ii. Member of the Technical Evaluation Committee for the purchase of equipment for the Department of Radiodiagnosis under 5<sup>th</sup> Standing Finance Committee for Augmentation of OPD Services, JIPMER.
- iii. Member of the technical committee for the purchase of Multi-detector CT scanner for the Indira Gandhi Government General Hospital and Postgraduate Institute, Puducherry.
- iv. Guide for the following postgraduate research projects
  - a. Diagnostic Role of Static and Dynamic Contrast Enhanced Magnetic Resonance Imaging in the Evaluation of Soft Tissue Tumours.
  - b. Role of Three Dimensional CT angiogram in detecting intracranial aneurysms in subarachnoid haemorrhage.
  - c. Role of Transabdominal, Transvaginal Sonography and Magnetic Resonance Imaging in the antepartum diagnosis of placenta accreta.
- v. Co-investigator in the extramural funded project titled "Evaluation of High Frequency ultrasound and Bio-markers for the diagnosis and management of type 1 Leprosy reaction" funded by ICMR task force in Leprosy 2012-2015 for a value of 28.7 Lakhs.

## Radiodiagnosis

- vi. Co-guide for the following postgraduate research projects
  - a. Role of gray scale ultrasound, power Doppler, spectral Doppler and radionuclide scintigraphy to differentiate between benign and malignant thyroid nodules.
  - b. Comparison of sonohysterosalpingography using agitated saline and hysterosalpingography to evaluate tubal patency in infertile women.
  - c. Study of renal hemodynamics assessed by duplex ultrasonography in liver cirrhosis patients
- vii. Member of the renal transplantation committee of JIPMER.
- viii. Member of the Radiation Safety and Monitoring Committee.
- ix. Co-guide for various inter-departmental MD/MS/MCh projects.

### **Dr. S. Deepak Barathi**

- i. Internal examiner for the MD Radio diagnosis examinations JIPMER.
- ii. Evaluator of PG dissertations in the specialty of Radio-diagnosis for JIPMER
- iii. Member of the Committees for Expansion of Super-Specialty Block with provision for private and semi-private wards and Establishment of Screening OPD Including Geriatric Block And MRD Block.
- iv. Member of the Technical Evaluation Committee for the purchase of equipment for the Department of Radiodiagnosis under 5<sup>th</sup> Standing Finance Committee for Augmentation of OPD Services, JIPMER.
- v. Member of the JIPMER Quality Council.
- vi. Guide for the postgraduate research projects
  - a. Three dimensional Magnetic Resonance Imaging features in patients with perianal fistulae and its co-relation with surgical findings.
  - b. Diagnostic role of Magnetic Resonance Spectroscopy and Diffusion Weighted Imaging in differentiation of malignant and non- malignant brain lesions
  - c. The diagnostic accuracy of diffusion weighted Magnetic Resonance Imaging with Apparent Diffusion Coefficient values in the characterization of renal masses.

## **CO-INVESTIGATOR IN THE FOLLOWING FACULTY PROJECTS**

- a. Pre-operative chemo-radiation with paclitaxel and carboplatin followed by surgery in carcinoma thoracic esophagus and junctional esophagus- a prospective study (Radiotherapy)
- b. An assessment of the electro-physiologic and metabolic effects of surgical de-tethering of the spinal cord in patients with tethered cord syndrome- a prospective pilot study (Neuro-surgery).
- c. Continuous Magnetic Resonance Imaging for Neuro-surgical patients: a feasibility study (Neuro-surgery).

### **Dr. Ramkumar. G**

- i. Co-investigator in the project entitled “Prospective study on role of palliative radiation in advanced head and neck squamous cell carcinoma”.
- ii. Member of JIPMER Liver transplantation faculty team.

### **Dr. Subathra. A**

- i. Co-investigator in the project entitled “Pilot project on correlation of sonography, nuclear scan, histology with intra operative findings in pelvi ureteric junction obstruction in children”

## **SIGNIFICANT EVENTS**

Picture archiving and communication system PACS was inaugurated on November 18, 2013. PACS will enable easy prompt and viewing of all X-rays, CT, MRI studies by the clinicians in their OPDs wards and other treatment areas.

# Radiotherapy

## FACULTY LIST

- |                                             |   |                                                                                             |
|---------------------------------------------|---|---------------------------------------------------------------------------------------------|
| 1. DIRECTOR, RCC AND SENIOR PROFESSOR       | : | Reddy K.S.                                                                                  |
| 2. SENIOR PROFESSOR AND HOD                 | : | Vivekanandam S.                                                                             |
| 3. ASSOCIATE PROFESSOR                      | : | i. Gunaseelan K.<br>ii. Ashutosh Mukherji<br>iii. Parthasarathy V.<br>iv. Shyama Sudha Prem |
| 4. ASSISTANT PROFESSOR                      | : | Jagadeesan P.                                                                               |
| 5. LECTURERS IN RADIOLOGY (MEDICAL PHYSICS) | : | i. Vijayaprabhu N.<br>ii. Saravanan K.<br>iii. Seenisamy R.<br>iv. Mourougan S.             |

## BACKGROUND INFORMATION OF THE DEPARTMENT

The department has been treating nearly 3,500 cancer patients annually. Daily, more than 200–300 patients receive radiation and chemotherapy. Most of these patients are treated on an outpatient basis. Regional Cancer Centre has 82 inpatient beds (including ICU, 20 special ward beds), outpatient facilities, day care centre, minor operation theatre, etc. Department of Medical Oncology is functioning in collaboration with Radiotherapy Department to provide efficient services to cancer patients under one roof. At Regional Cancer Centre, hi-tech therapy equipments like High-energy Linear Accelerator with IMRT/IGRT/Rapid Arc Treatment facility, new HDR Brachytherapy, CT Simulator, Treatment Planning Systems, Ultrasound machine with Doppler facility and Computerized Radiography were installed in order to accommodate the increase in load of cancer patients and to impart quality training program to PG students in Radiation therapy and Medical Physics.

## EDUCATIONAL COURSES

### *Undergraduate Courses*

MBBS

B.Sc., Nursing

B.Sc., Radiation Technology

Post Basic Diploma in Oncology Nursing course

## Radiotherapy

An Endowment prize has been instituted by Dr. K.S.V.K. Subba Rao, Former-Director, JIPMER, for the best undergraduate student in Oncology in memory of his late in-laws.

### Postgraduate Courses

MD Radiotherapy (intake of 6 students)

M.Sc., (Medical Physics) (intake of 4 students)

### Research Courses

- i. Two lecturers in our department (Mr. Vijayaprabhu Lecturer in Radiology (Medical Physics) and Mr. Saravanan, Lecturer in Radiology (Medical Physics)) are expected to complete their part- time Ph. D. and will be conferred their degree by April 2014.
- ii. Mr. Seenisamy Lecturer in Radiology (Medical Physics) and Mr. Mourougan, Lecturer in Radiology (Medical Physics) are undergoing their part time Ph.D. program.

### Short Term Training

- i. Postgraduates from Department of Obstetrics and Gynaecology, ENT and Department of Pulmonary Medicine from JIPMER and Postgraduates from Rajiv Gandhi Maternity Hospital and Pondicherry Institute of Medical Science (PIMS) are posted for 1 month in our department featuring with interactive lectures, seminars and clinical bedside case discussions.
- ii. In March 2013, the first Batch of M.Sc., Physics Interns from other Universities joined Department of Radiotherapy.
- iii. In January 2014, first Batch of M.Sc., Medical Physics course has been started in our department with an annual intake of four students.
- iv. The department has also imparted short term training and guided in the Project works carried out by M. Sc. (Medical Physics) students from Anna University and Bharathiyar University for a period of one month.

## CONFERENCES AND CMES ORGANISED BY THE DEPARTMENT

### Conferences

- i. The Regional Cancer Centre, JIPMER and Department of Paediatric Surgery, JIPMER jointly organized the first Regional Paediatric Oncology Conference (REPOC-2014) on March 8 and 9, 2014 in the Conference Hall, Super Speciality Block, JIPMER

### CMEs

The Department has conducted 10 CMEs till March 2014.

- i. The Department of Radiotherapy, Regional Cancer Centre has conducted the 10th CME on “Lung Cancer” in JIPMER Academic Centre on April 10, 2014.
- ii. The Department of Radiotherapy, Regional Cancer Centre and Department of Obstetrics and Gynaecology have jointly organized Workshop on Nursing Care in Oncology at the AGOICON2013 Annual Conference on November 7, 2013 in Multipurpose Hall, College of Nursing, JIPMER.

### RCC—Foundation Day

- i. The Regional Cancer Centre, JIPMER has earmarked the first Foundation Day on January 23, 2014.



## CONFERENCES AND CMES ATTENDED BY FACULTY

### Dr. K.S. Reddy

- i. Attended and delivered an oration on “Proton therapy—current practice” in the AMPICON-2013 at Anna University, Chennai.
- ii. Attended and moderated a session on “Hospital Based Cancer Registry” and “Brachytherapy practice in Head and Neck Cancer” in the State Annual Conference of Association of Radiation Oncologists Tamil Nadu and Puducherry Chapter—2013 at Chennai.
- iii. Attended and moderated a session on “Management of GBM” at CME organized by AROI TNPY—chapter in February 2014 at Chennai.
- iv. Attended and moderated a scientific session in the “Regional Pediatric Oncology Conference” (REPOC-2014) in March 2014 at JIPMER, Puducherry.
- v. Attended and moderated a scientific session in the conference—AGOICON2013 at JIPMER, Puducherry.
- vi. Attended and moderated a panel discussion in the CME on “Lung Cancer” on April 27, 2013 at JIPMER, Puducherry.
- vii. Attended and moderated a scientific session in the “Management of Malignancies of the Central Nervous System in children” at Paeds Onco CME organised by Department of Paediatric Surgery, JIPMER at Puducherry on February 17, 2013.

### Dr. Gunaseelan

- i. Attended a workshop on “Palliative Care: Education for Nurses” on April 26 and 27, 2013 and delivered oral presentation on symptom management of palliative care at Dr. Abdul Kalam Convention centre, Thalambur, Chennai.
- ii. Attended CME on “Management of Lung Cancer” on April 27, 2013 and delivered oral presentation lecture on “definitive management of stage IIIA NSCLC: Definitive chemoradiation” at JIPMER Academic centre, JIPMER.
- iii. Panel expert for CME on Management of Triple positive MBC and Management of SRE in MBC, organized by AROI-TN and PY CHAPTER, Chennai, May 31, 2013.
- iv. Delivered a live telecast interview with public for “cancer awareness” in Doordhasan Television on June 2013.
- v. Chaired a scientific session in state level conference PSYCON TN –PY Chapter on “psychological aspect of patients in palliative care clinic in Oncology” on June 29, 2013 at JIPMER Auditorium organized by department of Psychiatry, JIPMER.
- vi. Panel expert for CME on “Role of targeted therapy along with radiation”, organized by AROI-TN and PY CHAPTER, Chennai, August 10, 2013.
- vii. Panel expert for CME on “Glioma—Current concepts in Management” organized by ISNO at Chennai on August 31, 2013.
- viii. Chaired proffered papers (9 Numbers) session in the forenoon of October 6, 2013 at 28th Annual Conference of Association of Radiation Oncologists of India Tamil Nadu and Puducherry Chapter 2013 held at Chennai on October 5 and 6, 2013.
- ix. Delivered an oral presentation on Cancer Awareness and Screening at Community based gathering organized by Lions Club of Puducherry on October 12, 2013.
- x. Delivered oral presentation on “Evolution of Radiotherapy in Head and Neck Cancer” at Indira Gandhi Dental Institute and Research Centre, Puducherry on October 25, 2013.
- xi. Delivered oral presentation on “Role of Radiotherapy in Gynecological Cancer” at Workshop on Nursing Care in Oncology at the AGOICON2013 Annual Conference on November 7, 2013.
- xii. Delivered an oral presentation on “Extracorporeal Irradiation in Bone Sarcomas—An Single Institution Experience”, “Does large dose per fraction in radiotherapy alters comet assay

## Radiotherapy

- results” and “Brachytherapy mould Vs. VMAT Boost in Chest Wall Radiation in Breast Cancer” at ICC2013 International Conference on November 22–25, 2013 at New Delhi.
- xiii. Delivered an oral presentation on Cancer Awareness and Screening at Community based gathering organized at Emphasis by Lions Club of Puducherry on December 6, 2013.
  - xiv. Attended Workshop on B.Sc. (Allied Medical Sciences) course curriculum formation, November 30, 2013 at JIPMER Academic Centre, JIPMER, Puducherry.
  - xv. Delivered lecture on Cancer Awareness in Suriyan FM 93.7 (Radio Program) on the occasion of World Cancer Day at Puducherry.
  - xvi. Attended CME on Glioblastoma multiforma—Multidisciplinary Approach, organized by AROITNPY chapter on February 2, 2014 at Chennai.
  - xvii. Attended Apollo Cancer Conclave on February 7–9, 2014 at Chennai.
  - xviii. Attended the International Summit on Emergency Medicine and Trauma Conference on February 14–16, 2014 at JIPMER, Puducherry.
  - xix. Attended as a panel expert in the Regional Pediatric Oncology Conference (REPOC-2014) on March 8 and 9, 2014 at JIPMER, Puducherry.

### Dr. Ashutosh Mukherji

- i. Attended and delivered lecture on “Diagnosis and Management of Medulloblastoma” at Regional Paediatric Oncology Conference (REPOC 2014) held on March 8 and 9, 2014 at JIPMER.
- ii. Attended and delivered oral presentation on “Dose Escalation with Adjuvant VMAT and Concurrent Capecitabine in Locally Advanced Stomach Cancers” and “Analysing Mould Brachytherapy in Early Oral Cancers in Patients Unfit for Surgery” at Young Radiation Oncologists’ Conference at Visakhapatnam, January 4 and 5, 2014.
- iii. Attended and Moderated panel discussion in 10th CME Regional Cancer Centre JIPMER held on April 27, 2013 on Lung Cancers.
- iv. Attended the Regional Workshop of “National Medical College Network (NMCN)” for Sensitization and Awareness for Nodal Officers of NMCN of South India Medical Colleges held in JIPMER on August 16, 2013.
- v. Attended the IBHI Indo-UK Cancer Summit at Chennai, September 16 and 17, 2013.
- vi. Attended and made Poster presentations on “An Analysis of Cranio-Spinal Irradiation by VMAT Technique in Supine Position” and “Analysing Mould Brachytherapy in Early Oral Cancers in Patients Unfit for Surgery” in the Indian Cancer Congress at New Delhi, November 2013.
- vii. Delivered Oral presentation on “Dosimetric Analysis of Cranio-Spinal Irradiation by VMAT Technique in Supine Position” in JIPMER Scientific Society at Puducherry, October 2013.
- viii. Delivered Oral presentation on “Harnessing New Technology For Patient Care At RCC JIPMER: A Year Of Using Rapidarc® (RA/VMAT) And Image Guided Radiotherapy (IGRT)” at JIPMER Scientific Society in Puducherry, April 26, 2013.
- ix. Attended and delivered talk on “Management of Malignancies of the Central Nervous System in children” at Paeds Onco CME organised by Dept of Paediatric Surgery, JIPMER at Puducherry on February 17, 2013.

### Dr. Shyama Prem

- i. Was invited as a speaker for International hepatopancreatobiliary course Indian chapter held on August 28–31, 2013.
- ii. Delivered a lecture on Radiation safety/fire safety and/workplace safety for CME on patient safety held on October 2013.
- iii. Delivered a lecture on fire safety/radiation safety for DM/MCh orientation programme.
- iv. Delivered a lecture on fire safety/radiation safety for Interns orientation programme.

Attended the following workshops:

- i. Observational studied held in SGPPI, Lucknow September 2013.
- ii. Sample size held in CMC Vellore December 2013.
- iii. Clinical trials and Met-analysis March 2014.

Attended the following CME:

- i. CME on lung cancers April 2013, JIPMER, Puducherry.
- ii. CME on Pediatric Oncology March 2014, JIPMER, Puducherry.

### **Dr. Jagadeesan**

- i. Presented an oral abstract titled “Working in three regional cancer centres - a mini-experience” in Young Radiation Oncologists’ Conference (YROCC), January 2014, Visakhapatnam, India.

### **Mr. Vijayprabhu**

- i. Attended 10th CME on lung cancer on April 27, 2013 conducted by RCC, JIPMER.
- ii. Attended and presented an oral paper “A Dosimetric Study on Post mastectomy Surgical Scar Boost by CT-based HDR Surface mould Brachytherapy using Catheter Flap® applicator,” in the national conference of Association of Medical Physicists of India (AMPICON2013), 2013 held at Saha Institute of Nuclear Physics, Kolkatta, India.
- iii. Attended and presented an oral paper on “Post mastectomy Radiotherapy of the Chest Wall: Dosimetric Comparison of IMRT and Rapid Arc Techniques,” Oral Presentation at the annual conference of Association of Radiation Oncologists of India, Tamilnadu and Puducherry Chapter, 2013 (AROITNPYCON2013) held at Chennai, India.
- iv. Delivered an invited talk on “Radiotherapy Treatment Techniques in Breast Cancers,” at the Annual conference of Association of Medical Physicists of India, Tamilnadu and Puducherry Chapter, 2013 (AMPITPCON 2013), held at Anna University, Chennai.

### **Mr. Saravanan**

- i. Attended 10th CME on lung cancer on April 27, 2013 conducted by RCC, JIPMER.
- ii. Attended 28th State Annual Conference of Association of Radiation Oncologists of India Tamilnadu and Puducherry (AROITNPYCON-2013) at Billroath Hospital, Chennai, October 5–8, 2013.
- iii. 18th State Annual Conference of Association of Medical Physicist of India Tamilnadu and Puducherry Chapter (AMPITNPYCON 2013) conducted by Department of Medical Physics, Anna University, Chennai October 18–19, 2013.
- iv. 34th National Conference of Association of Medical Physicists of India conducted by Saha Institute of Nuclear Physics, Kolkatta, November 13–16, 2013.
- v. Took part as a resource person in CME cum Workshop on patient safety—JIPMER Quality Council November 23–24, 2013.
- vi. Workshop on B.Sc. (Allied Medical Sciences) Course curriculum formation, November 30, 2013.

### **Mr. Seenisamy**

- i. Attended 10th CME on lung cancer on April 27, 2013 conducted by RCC, JIPMER.
- ii. Attended 28th State Annual Conference of Association of Radiation Oncologists of India Tamilnadu and Puducherry (AROITNPYCON-2013) at Billroath Hospital, Chennai, October 5–6, 2013.
- iii. 18th State Annual Conference of Association of Medical Physicist of India Tamilnadu and Puducherry Chapter (AMPITNPYCON 2013) conducted by Department of Medical Physics, Anna University, Chennai October 18–19, 2013.

## Research Projects

S. No.	Name of Principal Investigator	Title of Project	Duration of Project (From ... To ...)	Funding Agency and Total Funds Sanctioned	Collaborating Institutions/ Departments	Status (Completed in FY 2012-2013 or On-going)
1.	Dr. Gunaseelan	Electron Beam irradiation vs. Exteral Photon Beam irradiation combined with surface mould Brachtherapy boost for Post-mastectomy chest wall irradiation in Locally Advanced Breast Cancer: Dosimetric and Clinical study.	October 2011-2014	Nil	Nil	On-going
2.	Dr. Gunaseelan	Clinical outcome and the determinants of prognosis among the patients with breast cancer in a tertiary health care hospital in south India.	September 2012-2015	Nil	Department of Surgery and Department. of Bio-Statistics	On-going
3.	Dr. Gunaseelan	Effect of Intraluminal Brachtherapy boost in locally advanced carcinoma rectum undergoing preoperative concurrent chemo radiation-A randomized clinical trial.	September 2013-2016	Nil	Department Of Surgery and Pathology	On-going
4.	Dr. Gunaseelan	Hypo fractionated - volumetric modulated Arc Breast Treatment (VMAT) with Simultaneous Versus Sequential Boost Techniques: Dosimetric analytical study.	September 2013-2016	Nil	Intra-Department	On-going
5.	Dr. Gunaseelan	Assessment of psychological distress and quality of life among cancer patients attending palliative care unit.	September 2013-2016	Nil	Department of Psychiatry, Anaesthesiology, Medical Oncology	On-going
6.	Dr. Ashutosh Mukherji	Assessing quality of life, acute toxicities and survival with the use of capecitabine as induction and concurrent chemotherapy in patients of stomach cancers undergoing adjuvant chemo-radiation.	June 2013-2016	Nil	Department of Medical Oncology	On-going

7.	Dr. Ashutosh Mukherji	Comparison of change in target volume and OAR coverage at end of 3rd and 4th week of treatment with adaptive planning in IMRT and VMAT in head and neck cancers.	June 2013–2016	Nil	Intra-Department	On-going
8.	Dr. Ashutosh Mukherji	Dosimetric analysis and Clinical outcome in CT-Based Mould Brachytherapy in Early Oral Cancers.	June 2013–2016	Nil	Intra-Department	On-going
9.	Dr. Ashutosh Mukherji	Effect of Cranio-Spinal Irradiation by VMAT Technique in Supine Position—Dosimetric and Clinical analysis.	June 2013–2016	Nil	Intra-Department	On-going
10.	Dr. Jagadesan	Prospective study of palliative radiotherapy in advanced head and neck squamous cell carcinoma	March 2014–2017	Nil	Intra-Department	On-going
11.	N. Vjayaprabhu	Mono-isocentric technique in the teletherapy treatment of post-operative carcinoma of breast.	3 years	Intramural research fund, JIPMER. Total Fund sanctions = Rs. 2 Lakhs	Department of Radiotherapy, JIPMER	Completed in March 2013.
12.	Mr. Saravanan	Inter fraction variation in Interstitial High Dose Rate Brachytherapy technique.	2010–2013	Nil	Intra-Department	On-going
13.	Mr. Seenisamy	A study on variation in absorbed dose due to setup error and intra-fractional tumor motion based on exit dose fluence measurements by EPID.	2013–2016	Nil	Intra-Department	On-going
14.	Mr. Mourougan	Dosimetric analysis of CBCT based treatment planning for adaptive radiotherapy (IMRT and VMAT).	2013–2016	Nil	Intra-Department	On-going

**Mr. Mourougan**

- i. Attended 10th CME on lung cancer on April 27, 2013 conducted by RCC, JIPMER.
- ii. Attended 28th State Annual Conference of Association of Radiation Oncologists of India Tamilnadu and Puducherry (AROITNPYCON-2013) at Billroth Hospital, Chennai, October 5–6, 2013.
- iii. 18th State Annual Conference of Association of Medical Physicist of India Tamilnadu and Puducherry Chapter (AMPITNPYCON 2013) conducted by Department of Medical Physics, Anna University, Chennai October 18–19, 2013.
- iv. Workshop on B.Sc. (Allied Medical Sciences) course curriculum formation, at JIPMER, November 30, 2013.
- v. 3rd National Workshop on Radiotherapy Gel Dosimetry at Christian Medical College, Vellore, January 8–9, 2014.

**PUBLICATIONS**

- i. The Department of Radiotherapy, Regional Cancer Centre, JIPMER released 2nd and 3rd Issue of the scientific journal viz. JIPMER JOURNAL OF CANCER on July 2013 and February 2014.
- ii. The Regional Cancer Centre, JIPMER has released the JIPMER Cancer Update (JCU) on occasion of the CME on Lung Cancer.

**Journals**

1. Significant effect of *CYP19A1* gene polymorphisms on letrozole-induced arthralgia in postmenopausal breast cancer patients. Umamaheswaran G, Dkhar SA, Kadambari D, Biswajit D, and Reddy KS, and Adithan C. *Breast Cancer Research Treat.* In Press.
2. Genetic polymorphisms of *CYP2D6* increase the risk for recurrence of breast cancer in patients receiving tamoxifen as an adjuvant therapy. Damodaran SE, Pradhan SC, Umamaheswaran G, Kadambari D, Reddy KS, and Adithan C. *Cancer Chemother Pharmacol.* 2012; 70: 75–81.
3. Management of stage IIIA NSCLC: Definitive chemo radiation. JIPMER Cancer Update, Regional Cancer Centre Bulletin, 13–17, 5(1): April 2013 Review Article, Dr. Gunaseelan K.
4. Impact of the interfraction variation on HDR Brachytherapy interstitial implant plans. *J. Can. Res. Ther.* 2013. Gunaseelan K, Saravanan K, Reddy KS, Vivekanandhan N, Parthasarathy V, (IF-0.761).
5. Extracorporeal irradiation in bone sarcomas. A JIPMER experience. *J. Can. Res. Ther.* 2013 Gunaseelan K, Patro DK, Reddy KS, Vivekanandhan S, Vijayaprabhu N, Saravanan K, (IF-0.761).
6. Surgical scar boost using CT-based HDR brachytherapy for postmastectomy boost irradiation in breast cancer. *J. Can. Res. Ther.* 2013. Gunaseelan K, Vijayaprabhu N, Reddy KS, Vivekanandhan N, (IF-0.761).
7. Point base prescription for HDR brachytherapy in carcinoma cervix in the era of 3D conformal brachytherapy. Carthikeyan, Gunaseelan, Vijaprabhu, KS. Reddy, AROI TNPY 2013.
8. Clinical presentation of metastatic adenocarcinoma to skin with unknown primary—case report. Ankit Agarwal, Gunaseelan, KS. Reddy, Rakhi Kar. *JIPMER J. Cancer.* 2013.
9. Case of a Locally Advanced Carcinoma Cervix Presenting With Protrusio Acetabuli: Pre-screening Era Presentation Rarely Seen in Modern Times. Ashutosh Mukherji, Vivekanandham S, and Reddy KS, accepted for publication in South African Journal of Gynecologic Oncology.

10. An analysis of crano-spinal irradiation by VMAT technique in supine position. Mukherji A, Vijayaprabhu N, Vivekanandham S, Reddy KS, Christy S. *Ind. J. Cancer.* 50(Suppl. 1): S299, November 2013.
11. Analysing mould brachytherapy in early oral cancers in patients unfit for surgery. Mukherji A, Morougane S, Saravanan K, Vivekanandham S, Reddy KS. *Ind. J. Cancer.* 50(Suppl. 1): S148, November 2013.
12. Evaluation of change in quality of life with use of VMAT and concomitant boost in sq cell carcinomas of oropharynx, larynx and hypopharynx. Kannan P, Ashutosh Mukherji, Saravanan K, Reddy KS. TNPYAROICON2013, October 2013.
13. Adult medulloblastoma—CT and MR imaging features, a comparison with childhood medulloblastoma. Santhosh Vandanasetti, C. Shamsudheen, Ashutosh Mukherji, Shyama Gopalakrishnan. *JIPMER J. Cancer.* 2(1): 61–3, July 2013.
14. Advances in Techniques of Radiotherapy of Non-Small Cell Lung Cancers. Ashutosh Mukherji. Regional Cancer Centre Bulletin, JIPMER Cancer Update. 5(1): April 2013; 16–21.
15. Lung Cancer Epidemiology in India. Ashutosh Mukherji. Regional Cancer Centre Bulletin; JIPMER Cancer Update, 5(1): April 2013; 2–5.
16. Comparison of high-dose-rate intracavitary brachytherapy dosimetry with and without anesthesia in patients with cervical carcinoma. Daya N. Sharma, Pritee Chaudhari, Seema Sharma, Leena Gupta, Pandjatcharam Jagadesan, Goura K Rath, Pramod K Julka. *J. Appl. Clin. Med. Phys.* 2014; 15(2): 60–66.
17. Dosimetric impact of interfraction variation in Interstitial HDR Brachytherapy Kandasamy Saravanan, Reddy KS, Vivekanandan N, Parthasarathy V, Gunaseelan K. *Int. J. Med. Phys., Clin. Eng. Radiat. Oncol.* 2013, 2, 111–116 (<http://dx.doi.org/10.4236/ijmpcero.2013.24015>)
18. A Preliminary analysis in Dosimetric impact of interfraction variation in Interstitial HDR Brachytherapy. Saravanan K, Reddy KS, Vivekanandan N, Parthasarathy V, Gunaseelan K. *JIPMER J. Cancer.* 2013.
19. Dosimetric comparison on interfraction variation between rigid needle and flexible catheter implant in Interstitial HDR Brachytherapy. Saravanan K, Reddy KS, Vivekanandan N, Parthasarathy V, Gunaseelan K. *Med. Sci.* 3(9), 29–42 Published on November 30, 2013.
20. “A dosimetry study on post mastectomy surgical scar boost irradiation by CT-image based HDR Brachytherapy using Catheter Flap® surface mould,” Vijayaprabhu N, Gunaseelan K, Reddy KS, Vivekanandan N, and Karthik N. *JIPMER J. Cancer.* 2(1), 45–55, 2013.
21. “Post mastectomy Scar Boost Irradiation Using HDR Surface Mould Brachytherapy by 3D Image-based Volume Optimization,” Vijayaprabhu N, Gunaseelan K, Vivekanandan N, Karthik N, Shamsudheen C, and Reddy KS. *Int. J. Med. Phys., Clin. Eng. Radiat. Oncol.* 2(4), 139–146, 2013. <http://dx.doi.org/10.4236/ijmpcero.2013.24019>.

## Books/Chapters in Books

### Dr. Ashutosh Mukherji

- i. Under Print: Planning and Managing Radiation Therapy in Cancer Patients. Dr. Ashutosh Mukherji, 1st Edition, Springer Publishers, 2014.
- ii. Under Print: Co-Author in Book “Step by Step Radiotherapy Planning” by Dr. A.K. Rathi, 1st Edition, Jaypee Publishers.

**PATIENT CARE SERVICES****Site Wise Distribution of Cases According to Hospital Based Cancer Registry for the Year 2013 (June–December)**

ICD 10 Coding	Site(s)	Male		Female	
		#	%	#	%
C00–C14	Lip, oral cavity and pharynx	237	49.8	132	17.8
C15–C26	Digestive system	101	19.9	40	5.1
C30–C39	Respiratory system and mediastinum	66	12.9	17	2.2
C40–C41	Bone and articular cartilage	11	2.2	4	0.5
C43–C44	Skin	5	1	4	0.5
C50–C58	Breast and female genital organs	2	0.4	527	67.1
C60–C63	Male genital organs	19	3.7	–	–
C64–C68	Urinary organs	3	0.6	2	0.3
C69–C72	Eye, brain and central nervous system	16	3.2	12	1.4
C73–C75	Endocrine glands and related structures	3	0.6	12	1.5
C76–C80	Secondary and ill-defined (unknown primary)	28	5.6	23	2.9
C81–C96	Malignant neoplasms, stated or presumed to be primary, of lymphoid, haematopoietic and related tissue	19	3.8	11	1.4
<b>Total</b>		<b>512</b>	<b>100</b>	<b>785</b>	<b>100</b>

**Age Wise Statistics of Patients According to Hospital Based Cancer Registry for the Year 2013**

Age Group	Males		Females	
	#	%	#	%
00-04	2	0.4	1	0.1
05-09	1	0.2	–	–
10-14	2	0.4	1	0.1
15-19	4	0.8	5	0.6
20-24	9	1.8	10	1.3
25-29	8	1.6	6	0.8
30-34	14	2.7	21	2.7
35-39	23	4.5	50	6.4
40-44	30	5.9	90	11.5
45-49	55	10.7	136	17.3
50-54	66	12.9	116	14.8
55-59	79	15.4	118	15.0
60-64	83	16.2	108	13.8