

Global Medical Education and Research Foundation
3rd Annual Report, 17th August 2015

GMERF is 3 years old and is making steady progress, thanks to patronage and support from its president Dr.K.Ravindranath, Dr.P.Rama Rao, the Chairman of the Advisory Board, all advisory board members, our associate academic institutions, staff of Global Hospitals LKP and AWGH and all of you.

As you know GMERF aims to bring all academic programs of our hospital under one roof in addition to offering its own research and training programs. We would like to share with you our experiences and achievements during 2014-15.

Academic Activities:

a) A total of 403 students underwent training under the auspices of GMERF in various disciplines during 2014-15. Pharm D students (92), Nutrition (82), DNB (19), Bio Chemistry(38), Molecular Diagnostics & Biomarkers (25), Health Psychology (93), Hospital Management (14), Stem Cell (4), Emergency Medicine (5), DBT (1), Physiotherapy (4), Immunology (26).

b) Mark J Sedler Prof Psychitary and Behavioural Sciences and Assoc Dean of Global Medical Education, Stony Brook University, New York- addressed the members and explained about the program for collaboration, exchange visits of doctors and students. Critical Care Physicians and Anesthesiologists (Dr.Mohan, Dr.Kamesh and Dr.Ravichander) were briefed about the opportunities. We are exploring the possibilities of participating in this program which would benefit our young doctors and students of Stony Brook Medical School.

Research Initiatives:

IIT-D and GMERF project. This Project has successfully been completed; proof of concept has been obtained and demonstrated. Indian Patent has been applied from IIT-Delhi for the concept and prototype device to detect endotoxins in water and serum samples.

GMERF believes in collaboration to encourage faculty in our associate colleges to initiate research work. We extend our research, clinical resources and engage

in medical research work which will benefit our society. With this objective GMERF has entered into collaborations with some institutions in the twin cities and launched research work in front line areas:

1) Bhavans Vivekananda College-GMERF (Microbiology Dept). Screening for Quorum Sensing and hence bio-film Inhibitors from Natural Products.

2) Dept Microbiology, OU-GMERF-Inst Bioinformatics, Bangalore. Diagnosing Survivability In Early Stages Of Bacterial Sepsis Based On Acute Phase Response – A proteomics Study for Designing A Cost Effective Nanoprobe Immunoassay.

3) Dept Microbiology, NIMS-GMERF. Direct Detection of Carbapenems resistance in *A.baumannii* in clinical samples without culture isolation.

Genotype and phenotype correlation of carbapenem resistance in clinical isolates of *A.baumannii*

4) International Centre for Advanced Research in Nanomaterials (ARCI). Proof of concept has been obtained. We are working towards producing nanofibres by electro spinning to bind endotoxins.

Publication:

Global News Line:

We have an in-house newslines which not only reports about emerging knowledge information in human health care in addition to a gist of various activities in all branches of Global Hospital. 4 GNL Issues were released during 2014-2105 (August 2014, March 2015, April and May-June 2015). Those of you interested may pick up a copy of the latest issue of GNL from our office.

Research Publications:

14 publications in various national and international journals from our MDx Lab and Transplant Immunology and Stem Cells Department during 2014-15.

Conferences:

Two of our staff members attended the Indian Association of Medical Microbiology Conference held at Jaipur in Oct 2014 and presented their research papers.

Dr. V. Sritharan chaired the Rapid Diagnostics Session at the Bio-Asia 2015 conference held in Feb 2015 at Hyderabad.

Regulatory Clearances:

Obtained IEC code for GMERF from Ministry of Commerce and Industry, Jt. DG of Foreign Trade, Govt of India.

Seminars/Symposia:

2 seminars for Pharm D students.

One seminar on biomedical techniques-3D printing

MoU Signed:

GMERF signed MoU with Bhavans Vivekananda College, Sainikpuri

Workshop conducted:

Immunological Techniques, including flow cytometry and confocal microscopy, for MSc students from Bhavans Vivekananda College, Sainikpuri

Short-term research projects:

Koti Womens College (MSc Biotechnology) 4 students and One student from Sree Nidhi Institute of Engineering & Technology (B Tech Biotechnology)

Infrastructure:

We have created 3 lecture halls. A separate Research Laboratory is being established for the foundation and we have added a few new equipments.