



Centre for Management of Health Services (CMHS Seminar Series)



Topic : **Analytics in Pharmaceutical Development**

Speaker : Dr. Debjit Biswas
Vice President and Head of Biostatistics
and
Data Management Piramal Life Sciences
NCE Research, Mumbai

Venue : Wing - 11 Faculty Lounge, IIMA

Day & Date : Wednesday , August 27, 2014

Time : 3.15 P.M. (After an informal interaction over
tea, the Seminar will begin at 3.30 p.m.)

Abstract

The data science paradigm is assuming increasing importance in the development of pharmaceutical products. This is motivated by the need for new methods and technologies to address the challenges of diminishing returns in pharmaceutical R&D. Given the hurdles in developing blockbuster drugs that address the needs of broad patient populations, discovery and development efforts in the past few years have sought targeted therapies, driven by translational approaches, and for specific patient subgroups. This requires tools and expertise to mine chemical structures, genomic databases, pharmacology data and clinical outcomes, to identify novel targets, generate lead molecules, nominate clinical candidates, select indications and patients, and correlate clinical safety and efficacy with disease biology, mechanism of action, and preclinical findings. Collaborative work among subject matter experts from diverse disciplines including pharmacology, biomarkers, clinical research, biostatistics, pharmacovigilance, and business analytics, is essential to implement this paradigm. This talk will touch upon various areas of preclinical and clinical development, and commercialization, where a data-driven approach can provide useful insights for selection of assets, and optimization of scientific and commercial value.

Speaker Bio



Dr. Debjit Biswas is currently Vice President and Head of Biostatistics and Data Management at Piramal Life Sciences NCE Research, the new drug discovery and development organization of Piramal Enterprises Limited. He is responsible for helping advance the clinical pipeline, governance of projects and initiatives, and oversight of biostatistics, statistical programming, data management, and clinical operations functions. Previously, he was Director and Head of Biostatistics and Statistical Programming for Bristol-Myers Squibb in India. During his tenure with BMS, Dr. Biswas worked on development programs for small molecules and biologics in multiple therapeutic areas. Dr. Debjit Biswas has also worked for GE Global Research in Bangalore, and his academic experience includes working as a Visiting Assistant Professor at the University of Michigan, and as a Biostatistician at the Wayne State University School of Medicine in Detroit, Michigan.

Dr. Biswas is the current President of the Indian Association for Statistics in Clinical Trials (IASCT) which was founded in 2007 by Dr. Biswas and his peers from industry, with the vision of promoting statistical thinking, and use of appropriate statistical methods in pharmaceutical research and development programs. Dr. Biswas is also a member of the Board of Studies in Statistics at Mumbai University.

Dr. Biswas received his undergraduate and postgraduate training in statistics at the Indian Statistical Institute, Kolkata and Ph.D. from the University of Michigan, Ann Arbor.



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