

# Practical Research 2013

## The George Institute for Global Health

Monday December 2<sup>nd</sup> 2013 – Thursday December 5<sup>th</sup> 2013  
Hyderabad

The George Institute, India is pleased to present a 4 day symposium on clinical and public health research methods, aimed at early and mid-career scientists. Day 1 will provide a broad overview of a range of relevant topics, including epidemiology, biostatistics, qualitative research, health economics, research funding and management, as well writing scientific publications. Using a more interactive platform with case studies and group discussions, each of these topics will be explored in more detail on Days 2 – 4. The teaching faculty for this symposium is comprised of experienced international and local researchers from The George Institute and the University of Hyderabad. Attendance of the full symposium will provide participants with a broad practical understanding of key elements of clinical and public health research, as well as some helpful tips on developing a career in these areas. A certificate of completion will be provided to attendees.

### Faculty biographies:

Associate Professor  
Laurent BILLOT



Laurent Billot is Director of the Statistics Division at the George Institute and a Principal Research Fellow at The University of Sydney. He is an accredited statistician by the Statistical Society of Australia. Laurent has a master degree in Statistics and Computer Science from the University of South-Brittany (France) and an advanced degree in Public Health and Biostatistics from the University of Paris V. Prior to joining the George Institute in 2006, Laurent worked at the School of Public Health of the University of Nancy I (France) and at Statistics Collaborative Inc. (USA), a contract research organisation specialised in the design and analysis of biomedical studies. Over the last fifteen years, Laurent has been responsible for the design, analysis and reporting of numerous medical studies ranging from health surveys and epidemiological studies to multinational Phase III/IV trials in oncology, critical care and cardiovascular disease.

Dr Tracey CHANTLER



Tracey Chantler is a Research Fellow in Health Services and Systems Research at the George Centre for Healthcare Innovation. In this role she supports the social science research components of projects which form part of the Essential Health Care programme. She was awarded a PhD from the London School of Hygiene and Tropical Medicine in 2012. In her thesis she critically analysed the relationship between community engagement and ethical practice in vaccine research. This analysis was informed by ethnographic fieldwork conducted in western Kenya from 2008 - 2010. Dr Chantler has a background in nursing and her professional experience includes international health development, clinical vaccine research, applied social research and teaching masters level social science courses.

Dr Shailaja  
CHILAPPAGARI

Shailaja Chilappagari has extensive experience within the pharmaceutical industry with demonstrated technical capabilities across varied functions like Statistics, Clinical Data Management and SAS Programming. She led, built and trained technical teams in the



areas of clinical data management and statistical reporting. Her experience includes working in public health area with South Carolina Department of Health and Environment, in the area of pre clinical development and phase IV studies at Pizer, USA, in the area of clinical development at Dr Reddy's Laboratories and Novartis in India. She also has worked with several pharmaceutical companies and clinical research organizations as a consultant, trainer and a member of Data Safety Monitoring Board.

Mr Peter DOLNIK



Peter Dolnik is the Director of Research Services at The George Institute, a member of the Institute's senior management and Senior Associate at The University of Oxford. For the last 15 years Peter has worked in the area of research strategy and management. In this role, he has worked with key global funders including the Wellcome Trust, UK Medical Research Council, the European Research Council, NIH or the Australian National Health and Medical Research Council. Key responsibilities associated with his role have included development and implementation of fundraising strategy from global research funders, global capacity development program, research policies and research performance metrics and indicators.

Professor Stephen JAN



Stephen Jan is a Senior Health Economist, Professor in the Sydney Medical School and an Associate at the Menzies Centre for Health Policy at the University of Sydney. Stephen's areas of research interest are economic evaluation alongside clinical and public health studies, Aboriginal and Torres Strait Islander health, health systems research, the analysis of the household economic impact of chronic illness, institutionalist economics and health policy. As an economist working mainly with public health researchers, he is involved in projects across numerous disease areas and in collaborations with partners within the Institute and outside. He is the lead Chief Investigator on an NHMRC Capacity Building Grant in Health Services Research which funds traineeships for a number of health economics researchers at the George Institute and the University Sydney.

Professor Vivekanand JHA



Professor Jha is the Executive Director, The George Institute for Global Health, India, and James Martin Fellow at The George Institute for Global health at the University of Oxford. Prior to joining The George Institute, he was Professor of Nephrology and Head, Department of Translational Regenerative Medicine and Officer-In-Charge, Medical Education and Research Cell at the Postgraduate Institute of Medical Education and Research in Chandigarh, India. Professor Jha serves on the international advisory boards of several organisations, including membership of the WHO Expert Advisory Panel on Human Cell, Tissue and Organ Transplantation, and the executive committee of the International Society of Nephrology. He is a councillor of the International Society of Nephrology, a member of the education committees for the International Transplantation Society and International Society of Peritoneal Dialysis. He is a physician with a specialisation in the area of kidney diseases and he focuses on emerging public health threats globally and in India. He is particularly interested in using multi-disciplinary approaches and innovation to address the major challenge posed to humanity by non-communicable diseases.

Dr Pallab MAULIK

Dr Maulik is the Deputy Director and Head of Research and Development at the George Institute, India. He also is a Senior Research Associate at the George Institute, Oxford



University. He brings a wealth of experience to the Institute, in particular expertise in mental health. He has worked with the World Health Organisation (WHO), Geneva on Project Atlas and other mental health programs, and clinically as a psychiatrist in India and Australia. After training as a psychiatrist at the All India Institute of Medical Sciences, New Delhi, Dr Maulik received training in public health at the London School of Hygiene and Tropical Medicine, as well as Johns Hopkins School of Public Health where he completed his Masters and Doctoral training. His particular research interests include social determinants of health, especially mental health services, mental disorders, international mental health, and intellectual disability.

Ms Helen  
MONAGHAN



Helen has worked at The George Institute since 2000 and has a number of roles within the organisation. In her role as Manager, Academic Projects and Services, Helen works on the global process for negotiated academic project risk management. As Program Manager for the Health Services Research Group, Helen supports the Program Head on the SMART Health program at the Institute. SMART Health draws on innovative e and m-health technologies to improve access to high quality primary health care in both high and low/middle income country settings. Helen is also the Senior Project Manager on a number of academic studies – ACTIVE Dialysis, ACTION and ADVANCE-ON.

Professor Anushka  
PATEL



Dr Patel is the Chief Scientist, The George Institute for Global Health, Professor of Medicine at The University of Sydney and a cardiologist at Royal Prince Alfred Hospital in Sydney, Australia. She undertook her medical training at the University of Queensland, with subsequent postgraduate research degrees from Harvard University and the University of Sydney. Her personal research interests focus on developing innovative solutions for delivering affordable and effective cardiovascular care in the community and in acute care hospital settings. She currently leads research projects relating to these interests in Australia, China and India. She is supported by a Senior Research Fellowship from the Australian National Health and Medical Research Council.

Dr D. PRAVEEN



Dr Praveen is a Senior Research Fellow in The George Institute India and is undergoing his doctoral training from University of Sydney. He is a public health researcher with a background in medicine and post-graduation in community medicine. He has a keen interest in systems based innovations to address inequities related to chronic diseases. His research experience includes planning and leading large scale public health research projects and surveys in India. His current focus is in understanding the burden of diseases and to develop support mechanisms to reduce the burden of chronic diseases in rural and semi urban population in India. He has been awarded the competitive Australian Leadership Awards Scholarship in 2012 to pursue his PhD.

Associate Professor  
Usha RAMAN



Dr Raman obtained her Masters in Journalism and Ph.D in Mass Communication from University of Georgia, USA. Her teaching interests include news reporting and feature writing, specialized writing (science, technology, environment and health), science/health communication, editing and layout. Her research has been in the fields of cultural studies of science, science and health communication, clinician-patient communication, children's media, and the social impact of new media. She is also the Editor of Teacher Plus, a monthly magazine for schoolteachers in India, and a columnist for The Hindu's Education Plus.

Associate Professor  
Fiona TURNBULL



Dr Turnbull is the Head of Strategic Initiatives within the Office of the Chief Scientist at The George Institute, and an Associate Professor of Medicine at The University of Sydney. She completed her undergraduate medical training at the University of Otago and her training in public health medicine (leading to Fellowship of the Australasian Faculty of Public Health Medicine) in New Zealand. She has an MPH and a PhD in Medicine from the University of Sydney. Fiona currently holds a National Heart Foundation of Australia Post-Doctoral Fellowship.

## Session 1: Topic overviews – Dec 2<sup>nd</sup> 2013

Monday, December 2nd

Time	Topic	Presenter
8.45am – 9.15am	Welcome & Introduction	Professor Vivek Jha
9.15am – 10.15am	Study design in clinical and epidemiologic research	Professor Anushka Patel A/Professor Fiona Turnbull
10.15am – 11.15am	Biostatistics	A/Professor Laurent Billot
11.15am – 11.45am	<i>Morning Tea</i>	
11.45am – 12.45pm	Why qualitative research? (Orientation, purpose and application)	Dr Tracey Chantler
12.45pm – 1.45pm	Health economic evaluation: Why health economics?	Professor Stephen Jan
1.45pm – 2.15pm	<i>Lunch</i>	
2.15pm – 3.15pm	Getting research funding	A/Professor Fiona Turnbull Mr Peter Dolnik
3.15pm – 4.15pm	Research and project management	Ms Helen Monaghan Mr Peter Dolnik
4.15pm – 4.30pm	<i>Afternoon Tea</i>	
4.30pm – 5.30pm	Essentials of writing scientific publications	Professor Anushka Patel
5.30pm	Close	Dr Pallab Maulik

## Session 2: Epidemiology & Biostatistics – Dec 3<sup>rd</sup>, 2013

Tuesday, December 3<sup>rd</sup>

Time	Topic	Presenter
8.45am – 9.15am	Welcome & Introduction	Professor Anushka Patel
9.15am – 10.45am	How to write rationale/background and objectives with sound and reliable evidence?	A/Professor Fiona Turnbull Dr Pallab Maulik
10.45am – 11.00am	<i>Morning Tea</i>	
11.00am – 12.30pm	Choosing the right study design	Professor Anushka Patel Dr Pallab Maulik
12.30pm – 1.45pm	Observational studies – principles of design, analysis and reporting	A/Professor Fiona Turnbull A/Professor Laurent Billot
1.45pm – 2.30pm	<i>Lunch</i>	
2.30pm – 4.00pm	Randomised trials – principles of design, analysis and reporting	A/Professor Laurent Billot Dr Shailaja Chilappagari
4.00pm – 5.30pm	Choosing study outcomes and calculating sample size	Professor Anushka Patel A/Professor Laurent Billot

## Session 3: Managing Research & Research Careers – Dec 4<sup>th</sup>, 2013

Wednesday, December 4<sup>th</sup>

Time	Topic	Presenter
8.30am – 9.30am	Case Record Form design and data management	Ms Helen Monaghan
9.30am – 11.00am	How to manage clinical / public health research projects? Quality, timelines and budget	Ms Helen Monaghan Dr D Praveen
11.00am – 11.15am	<i>Morning Tea</i>	
11.15am – 12.15pm	Building a research career	Mr Peter Dolnik
12.15pm – 1.00pm	<i>Lunch</i>	

## Session 4: Health economic evaluations – Dec 4<sup>th</sup>, 2013

Wednesday, December 4<sup>th</sup>

Time	Topic	Presenter
1.00 – 2.00pm	Economic concepts and terminology & basics of economic evaluation	Professor Stephen Jan
2.05-3.00pm	Case Study: Economic evaluation of Intervention for Microfinance And Gender Equity (IMAGE)	Professor Stephen Jan
3.00-4.15pm	Key methodological issues in economic evaluation	Professor Stephen Jan
4.20-5.00pm	Economic evaluation in a policy context	Professor Stephen Jan
5.00-5.30pm	Summary discussion (Q &A)	Professor Stephen Jan

## Session 5: Qualitative methods in health services research – Dec 5<sup>th</sup>, 2013

Thursday, December 5<sup>th</sup>

Time	Topic	Presenter
8.30-9.30am	Qualitative research design (stand alone, mixed methods), formulating research questions & aims, ethical considerations	Dr Tracey Chantler
9.40-10.45am	Research methods (Interviews, focus groups, observation, document review)	Dr Tracey Chantler A/Professor Usha Raman
10.45-11.00 am	Morning Tea	
11.00-12.30 am	Group work: Interviews & FGDs	Dr Tracey Chantler A/Professor Usha Raman
12.30-1.30pm	Organizing and analyzing data	Dr Tracey Chantler
13.30-2.15pm	Lunch	
2.15-3.15 pm	Communicating & disseminating findings	A/Professor Usha Raman Dr Tracey Chantler
3.20-4.30pm	Mixed Methods Approaches (case studies)	Professor Stephen Jan Dr Tracey Chantler
4.30-5.00	Summary discussion (Q &A)	Panel moderated by Dr Tracey Chantler