

Pre Conference Workshop 2

Modelling Communicable Disease Dynamics & Control

By Prof Nicolaas JD Nagelkerke –
Author of Nagelkerke squared coefficient of determination

In conjunction with the joint conferences iCMS2017 & UROS2017, the organizing committee invites participants to our pre conference workshop.

5 – 6 November 2017

Adya Ballroom, Adya Hotel,
Langkawi, Malaysia

HRDF CLAIMABLE

ABOUT

This workshop is an introductory training to address the importance of mathematical modelling as an integrated field of communicable disease epidemiology and mathematical epidemiology as well as its applications to related diseases.

Workshop Objectives

- To introduce communicable disease epidemiology and its relation to the applications of mathematical modelling;
- To introduce the mathematical approach to the development of disease models;
- To discuss the latest development in the application of disease modeling with case studies and appraisal of literature.

Contents

- Introduction to Communicable Diseases & Epidemiology;
- Basic Concepts in Disease Modelling;
- Introduction to Mathematical Modelling Software;
- Understanding Research Question;
- Model Parameters and Optimization;
- Developing the Model Frame;
- Group Poster Presentation & Appraisal;

Who Should Attend

Highly recommended to:

- public health and pharmaceutical-industry professionals, policy makers & program managers,
- communicable disease researchers;
- medical Statisticians;
- individual interested in infectious disease;
- mathematicians who wish to learn key biological concepts and how they are translated into modelling.

Speakers



Professor Nicolaas J D Nagelkerke

- PhD in biostatistics from the University of Amsterdam.
- A biostatistician, an epidemiologist and a mathematical modeller.
- Contributed *Nagelkerke R² coefficient of determination* used in Logistics Regression.
- Has over 400 publications.
- Extensive experience in communicable diseases, epidemiological research and modelling, and statistical consultancy works in health related industry in Europe, Canada, Africa, Middle East and South East Asia, including collaboration works with the Centre for Global Health Research (University of Toronto); WHO in West Africa; UNAIDS; the World Bank in India and the Russian Federation

- An Associate Professor of Epidemiology & Biostatistics and heads the department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya
- PhD, John Hopkins University, Baltimore; MPH, Harvard & Cambridge Universities
- Chairman, Public Health Society, Malaysian Medical Association
- Fellow, Academy of Medicine Malaysia
- Published 67 research papers, of which 53 are ISI indexed; h-index of 15 with 3000+ citations
- Research interest includes improving causal inference, epidemiological designs, regression models, multiple imputations, measurement errors, propensity scoring



Associate Professor Dr Sanjay Rampal



Dr Nurhuda Ismail

- A physician specialized in community medicine & communicable disease epidemiology
- Lecturer at the Discipline of Population Health & Preventive Medicine, Faculty of Medicine, Universiti Teknologi MARA
- Obtained training certificate in communicable disease mathematical modelling from London School of Hygiene and Tropical Medicine
- Doctoral work on Malaysian tuberculosis transmission dynamics & developed age-structured deterministic mathematical model
- An EBM (Evidence-Based Medicine) trained from Julius Centre University of Malaya.
- Member, International Society for Infectious Diseases; the John Snow Society of Royal Society for Public Health; & Malaysian Thoracic Society

Workshop Fee Per Participant

CATEGORY	Early Bird	Normal
Local Participant	RM 980	RM 1500
International Participant	USD 250	USD 380
Local Student	RM 890	RM 1200
International Student	USD 230	USD 320

PAYMENT

Bank Name : Bank Islam Malaysia Bhd (Sungai Petani Branch),
 Bank Address : No.71&72 Lorong Lagenda 1, Lagenda Heights, 08000 Sungai Petani, Kedah, MALAYSIA
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To register, please visit
www.icmskdh.net

iCMS2017 Pre-Conference Workshop 2

Modelling Communicable Disease Dynamics and Control

Adya Hotel, Langkawi Island
5 – 6 November 2017

Program Schedule

	DAY 1 SUNDAY (05/11/2017)	DAY 2 MONDAY (06/11/2017)
8.30 – 8.45	REGISTRATION	REGISTRATION
8.45 – 10.00	Introduction to Communicable Diseases & Epidemiology	Understanding Research Question
10.00 – 10.15	COFFEE BREAK AND DISCUSSION	
10.15 – 11.30	Basic Concepts in Disease Modelling 1	Model Parameters and Optimization
11.30 – 13.00		Developing the Model Frame
13.00 – 14.00	LUNCH AND DISCUSSION	
14.00 – 15.30	Basic Concepts in Disease Modelling 2	Group Poster Presentation and Appraisal & Conclusion
15.30 – 17.00	Introduction to Mathematical Modelling Software	
17.00	TEA BREAK AND DISCUSSION	