



Fall 2014

September

15 September, 2014

Madhukar Pai, MD, PhD - Associate Professor, Dept. of Epidemiology, Biostatistics and Occupational Health, Director, McGill Global Health Programs, Associate Director, McGill International TB Centre

Topic: *Improving quality of tuberculosis care in India: can mystery patients help?*

Objectives:

- 1) describe India's healthcare delivery system and recognize the importance of the private healthcare sector
- 2) recognize the importance of poor quality of TB care as a key driver of the TB epidemic in India
- 3) identify the use of standardized patients as an important method for measuring and improving quality of TB care in India

22 September, 2014

Samy Suissa, PhD - James McGill Professor of Epidemiology, Biostatistics and Medicine, McGill University Director, Centre For Clinical Epidemiology, Lady Davis Research Institute - Jewish General Hospital

Topic: *The quasi-cohort approach in pharmacoepidemiology*

Objectives:

- 1) to review the nested case-control approach
- 2) to review criticisms of nested case-control studies
- 3) to introduce the quasi-cohort approach



29 September, 2014

50th Anniversary Speaker - Meakins Amphitheater - McIntyre Bldg - Rm 521

Russell V. Luepker, MD, MS, - Mayo Professor, Division of Epidemiology and Community Health at the University of Minnesota and Professor of Medicine (Cardiology)

Topic: *Epidemiology as a contact sport: Increasing primary prevention through aspirin use*

Objectives:

- 1) describe the most recent scientific evidence linking aspirin to the prevention of cardiovascular diseases
- 2) describe the use of epidemiologic methods to develop novel community-based prevention programs
- 3) describe a new community randomized trial to test the population effects of increasing aspirin use

October

6 October, 2014

Meakins Amphitheater - McIntyre Bldg - Rm 521

Michael S. Kramer, MD - James McGill Professor, Departments of Pediatrics and of Epidemiology, Biostatistics and Occupational Health, McGill University Faculty of Medicine

Topic: *"Does Obesity Start in the Womb? Challenges and Pitfalls in Lifecourse Epidemiology"*

Objectives:

- 1) review older literature from long-term follow-up of infants born with restricted fetal growth
- 2) summarize recent evidence of in utero "programming" of later obesity, and the statistical shortcomings underlying that evidence



3) show how "adjustment" for future size can bias associations between fetal growth and later obesity

13 October, 2014 - THANKSGIVING - NO SEMINAR

20 October, 2014

50th Anniversary Speaker - Meakins Amphitheater - McIntyre Bldg - Rm 521

David B. Richardson, PhD - Associate Professor – Dept. of Epidemiology, UNC Gillings School of Public Health, University of North Carolina

Topic: *Earthquake, Tsunami, Nuclear Crisis: Fukushima and Lessons from Hiroshima*

Objectives:

- 1) discuss the need for radiation protection in contemporary society
- 2) cite key studies that inform our understanding of radiation health effects
- 3) identify some important uncertainties regarding radiation effects

27 October, 2014

50th Anniversary Speaker - McIntyre Medical Bldg - Rm 206 - 2nd Floor

David N. Fisman, MD, MPH, FRCPC(C) - Professor, Department of Epidemiology; Dalla Lana School of Public, Health Infectious Diseases Consultant, University of Toronto

Topic: *The Incidence Decay and Exponential Adjustment (IDEA) model: a new single equation model to describe epidemics and their simultaneous control*

Objectives:

- 1) participants will gain familiarity with the history and concepts underlying mathematical modeling of infectious diseases



- 2) participants will learn about strengths and limitations of single-equation approaches to epidemic modeling
- 3) participants will review epidemiological characteristics of recent MERS coronavirus outbreaks in the Arabian Peninsula, and Ebola virus in West Africa

Presentation

November

3 November, 2014

50th Anniversary Speaker - Meakins Amphitheater - McIntyre Bldg - Rm 521

Christy Hanson, PhD, MPH - Dean, Institute for Global Citizenship, Distinguished Lecturer, International Studies, Macalester College

Topic: *Giving voice to TB patients through data: how case-based data informed the 2015-2018 national plan for TB in Kenya*

Objectives:

- 1) understand the epidemiology of TB and status of TB control in Kenya
- 2) understand the role of epidemiological and programmatic evidence in decision-making and national TB programme planning
- 3) become familiar with the WHO-recommended monitoring and evaluation system for TB control as a source for TB epidemiological data

10 November, 2014

Michèle Bouchard, PhD - Associate Professor, Head of the Chair in Toxicological Risk Assessment and Management and Head of the Biomarker Unit of the Xenobiotics and Nanoparticles Platform, Department of Environmental and Occupational Health, University of Montreal

Topic: *Toxicokinetic modeling and biomonitoring of exposure to environmental and occupational contaminants*



Objectives:

- 1) Get a general view of the use of toxicokinetic modeling to better understand links between exposure and biomonitoring data
- 2) Obtain insights on two types of toxicokinetic modeling approaches: data-driven and physiologically-based
- 3) Understand concrete examples of applications of toxicokinetic models to interpret biomonitoring results

17 November, 2014

Claire Infante-Rivard, MD, PhD, FRCP(c) - James McGill Professor, Department of Epidemiology, Biostatistics and Occupational Health

Topic: *Childhood Leukemia International Consortium Studies: Environment and Genes*

Objectives:

- 1) learn about the potential and challenges of a typical epidemiological consortium
- 2) gain familiarity with the analysis of case-parent trios for genetic association and linkage
- 3) Learn about the challenges of making qualitative statements on causation from real-life observational studies

24 November, 2014

Bethany Foster, MD, MSCE - Associate Professor Pediatrics, Associate Member Department of Epidemiology, Biostatistics

Topic: *How important is HLA matching for young kidney transplant recipients?*

Objectives:

- 1) to review the role of HLA matching in kidney transplant survival and understand its importance compared with that of donor age on long term graft survival



2) to consider the role of HLA matching on the proportion of the patient's total lifetime with graft function, which includes not only survival of the first graft, but events after first graft failure

3) to examine the role of the competing risks of death in the analysis of the association between HLA mismatch and proportion of lifetime with graft function

December

1 December, 2014

50th Anniversary Speaker - Meakins Amphitheater - McIntyre Bldg - Rm 521

Hélène Carabin, DVM PhD - President's Associate Presidential Professor, Department of Biostatistics and Epidemiology, College of Public Health - University of Oklahoma Health Sciences Center

Topic: *Neglected parasitic zoonoses epidemiological research: Challenges and suggested methods using an example from the Philippines*

Objectives:

1) to describe the current knowledge regarding the burden of neglected zoonotic and foodborne infections

2) to discuss; alternative methods to measure the combined burden of human and animal diseases

3) to demonstrate the use of hierarchical latent-class Bayesian log-bionomial models to adjust for misclassification and selection bias