



Epidemiology, Biostatistics & Occupational Health
EPIDEMIOLOGY SEMINAR SERIES
Summer 2014

****THE DEPARTMENT OF EPIDEMIOLOGY, BIostatISTICS AND OCCUPATIONAL HEALTH, - SEMINAR SERIES IS A SELF-APPROVED GROUP LEARNING ACTIVITY (SECTION 1) AS DEFINED BY THE MAINTENANCE OF CERTIFICATION PROGRAM OF THE ROYAL COLLEGE OF PHYSICIANS AND SURGEONS OF CANADA****

Dr. Richard Menzies, Professor of Medicine and Epidemiology & Biostatistics, McGill University.

Dr. Greg Fox, Post-Doctoral Research Fellow, Respiratory Epidemiology and Clinical Research Unit, McGill University

Dr. Andrea Benedetti, Assistant Professor, Departments of Medicine and Epidemiology, Biostatistics and Occupational Health, McGill University.

Using individual patient data meta-analysis to evaluate the treatment of drug resistant tuberculosis.

Monday, 16 June 2014
4:00 pm - 5:00 pm - Purvis Hall,
1020 Pine Ave. West, Room 25

ALL ARE WELCOME

SYNOPSIS:

Individual patient data (IPD) meta-analysis is a powerful tool for understanding how the heterogeneity between individuals affects treatment outcomes across multiple studies. In contrast to random effects meta-analyses of aggregate data, IPD allows both trial-level and patient-level factors to be explored separately. While the approach is being increasingly applied in analysis of randomized controlled trial data, its use in non-randomized studies has been more limited. We discuss the methodological and practical aspects of conducting IPD meta-analysis of tuberculosis (TB) treatment, and explore different approaches to evaluating the effect of treatment allocation in non-randomized studies. We also discuss the contributions of IPD meta-analyses to the development of treatment guidelines for drug resistant tuberculosis.

OBJECTIVES:

1. To describe methodological and practical aspects of conducting individual patient data (IPD) meta-analysis
2. To explore novel approaches to treatment allocation in IPD meta-analysis of non-randomized studies
3. To explore novel approaches to treatment allocation in IPD meta-analysis of non-randomized studies

BIOS:

Dick Menzies: Dr. Menzies received his medical training at McGill University and specialty training in Internal Medicine at the Medical College of Pennsylvania in Philadelphia, USA. After a two-and-a-half year stint in Lesotho, Africa, he received further training in Respiratory Medicine and a Masters Degree in Epidemiology at McGill University. Dr. Menzies served as Medical Director at the Montreal Chest Institute for a total of 10 years ending in 2002 and as Director of the Respiratory Epidemiology Unit at McGill University for seven years. His tuberculosis epidemiology research group is linked with a large multi-disciplinary clinical service at the Montreal Chest Institute, and a group of other Montreal researchers with diverse interests and expertise in TB. He collaborates closely with the Public Health Unit of Montreal and Immigration Canada

Greg Fox: Greg Fox is an Australian respiratory physician who is currently a post-doctoral fellow at McGill. He completed his PhD at Sydney University, focusing upon the epidemiological aspects of tuberculosis (TB) control in high-prevalence settings. He worked in Vietnam for four years, implementing multi-centre studies of TB case-finding interventions and investigating host genetic susceptibility to TB.

Andrea Benedetti: Andrea Benedetti is an Assistant Professor jointly appointed in the Departments of Medicine and of Epidemiology, Biostatistics and Occupational Health at McGill University. Dr. Benedetti's research interests include nonparametric regression, statistical methods in molecular epidemiology, and uses of generalized linear mixed models in epidemiologic research.