



2nd TB Research Methods Course

McGill University, Montreal, Quebec, Canada – July 6-10, 2015

Venue:	July 6-9 Chancellor Day Hall McGill University 3644 rue Peel (enter at 3660 rue Peel) Montreal, QC, H3A 1W9 Room 101 https://goo.gl/maps/kjZoj	July 10 McIntyre Medical Building McGill University 3655 promenade Sir William Osler (enter at 1200 avenue des Pins Ouest) Montreal, QC, H3G 1Y6 Room 208/209 https://goo.gl/maps/eZJSM
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COURSE SCHEDULE: OUTLINE

Day	Date	Time	Major themes
1	July 6, Mon	9.00 AM – 5.00 PM	Introductions and overview
2	July 7, Tues	9.00 AM – 5.00 PM	Modeling and decision analysis
3	July 8, Wed	9.00 AM – 5.00 PM	Operational research
4	July 9, Thur	9.00 AM – 5.00 PM	Randomized trials
5	July 10, Fri	8.30 AM – 4.30 PM	Molecular epidemiology and translational research

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Program in Infectious Diseases and Immunity in Global Health



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Day 1, July 6, 2015 [Monday]


Time	Lecture	Faculty
8.30 AM	Registration	
09.00 – 9.15 AM	Welcome and Introductions	Marcel Behr
09.15 – 9.30 AM	Course objectives and overview	Dick Menzies
09.30 – 10.10 AM	Research as part of the post 2015 End-TB strategy of WHO	Dick Menzies
10.10 – 10.40 AM	HIV-TB research and global priorities	Bill Burman
10.40 – 11.00 AM	Coffee	
11.00 – 11.40 AM	Indigenous TB – Approaches to research	Gonzalo Alvarez
11.40 – 12.20 PM	Qualitative research – A complementary approach	Amrita Daftary
12.20 – 12.30 PM	Panel – Questions to all	Dick Menzies
12.30 – 1.30 PM	Lunch	
1.30 – 2.10 PM	Late-breaker 1 "Lessons from Genomics – Why is MTB a killer?"	Marcel Behr
	Late-breaker 2 "After Taima TB"	Gonzalo Alvarez
2:10 – 2:30 PM	Small groups: Organization – who, where, what?	Dick Menzies
2.30 – 5.00 PM Including coffee	 Small groups: Overview of each topic by group leaders Selecting a question and study design	
5.00 – 5.15 PM	Group picture	
5.30 – 6.30 PM	Wine and Cheese Reception Venue: Thomson House (3650 McTavish, Montreal, QC, H3A 1Y2)	




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Day 2, July 7, 2015 [Tuesday] – Focus on modeling and decision analysis

Time	Lecture	Faculty
09.00 – 9.45 AM	Introduction to disease transmission modeling	Ted Cohen
09.45 – 10.30 AM	Introduction to decision analysis modeling	Alice Zwerling
10.30 – 10.45 AM	Coffee	
10.45 – 11.15 AM	Introduction to economic analysis	Kevin Schwartzman
11.15 – 11.45 AM	How to evaluate an economic analysis	Kevin Schwartzman
11.45 – 12.15 PM	Putting it together: Key issues and challenges in modeling TB	Ted Cohen
12.15 – 12.45 PM	Panel discussion with audience questions	All
12.45 – 1.45 PM	Lunch	
1.45 – 2.30 PM	Late-breaker 1 "Cost-effectiveness of GeneXpert in Nunavut"	Kevin Schwartzman
	Late-breaker 2 "Detecting hotspots of MDR-TB transmission using spatial and genetic data"	Ted Cohen
2.30 – 5.00 PM Including coffee	 Small groups: Selecting a study population and data gathering	

Day 3, July 8, 2015 [Wednesday] – Focus on operational research


Time	Lecture	Faculty
9.00 – 9.45 AM	Lecture 1: Operational research – what- why and how	Tony Harries
9.45 – 10.30 AM	Lecture 2: Capacity building for operational research in low- and middle-income countries- the SORT IT Model	Tony Harries
10.30 – 10.45 AM	Coffee	
10.45 – 11.30 AM	Lecture 3: Principles and structure of a research protocol	Tony Harries
11.30 – 12:05 PM	Lecture 4: Examples of operations research changing policy and practice	Tony Harries
12.05 – 12.45 PM	Realistic expectations: Sample size and power	Andrea Benedetti
12.45 – 1.45 PM	Lunch	
1.45 – 2.30 PM	Late-breaker 1 "Mystery patients in India"	Madhukar Pai
	Late-breaker 2 "Genetics of TST reactions"	Erwin Schurr
2.30 – 5.00 PM Including coffee	 Small groups: Finalizing the study	




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Day 4, July 9, 2015 [Thursday] – Focus on randomized trials

Time	Lecture	Faculty
09.00 – 9.45 AM	Trial design – from clinical problems to clinical trials	Bill Burman
09.45 – 10.30 AM	Selecting appropriate study populations, minimising bias	Greg Fox
10.30 – 10.45 AM	Coffee	
10.45 – 11.30 AM	Clustered trial designs, effective oversight of trials	Greg Fox
11.30 – 12.05 PM	End-points, planned and unplanned secondary analyses, interim analyses, stopping rules	Dick Menzies
12.05 – 12.45 PM	Data analysis 101	Andrea Benedetti
12.45 – 1.45 PM	Lunch	
1.45 – 2.30 PM	Late-breaker 1 "Does INH Resistance matter (continued)"	Dick Menzies
	Late-breaker 2 "Surgery and Treatment success in MDR-TB"	Greg Fox
2.30 – 5.00 PM Including coffee	 Small groups: Finalizing protocols Preparing for presentations	
6.00 PM	Group dinner (at own cost) Venue: TBA	

Day 5, July 10, 2015 [Friday] – Focus on molecular epidemiology and translational research

Time	Lecture	Faculty
09.00 – 09.40 AM	Molecular methods for typing and branding the tubercle bacillus	Marcel Behr
09.40 – 10.20 AM	Molecular Typing for patient, outbreak and population-level studies of TB epidemiology	Marcel Behr
10.20 – 10.40 AM	Coffee	
10.40 – 11.20 AM	Conducting flawless research – the right question, the right design	Dick Menzies
11.20 – 12.00 PM	Conducting flawless research – avoiding bias at every step	Madhukar Pai
12.00 – 1.00 PM	Lunch	
1.00 – 4.00 PM Including coffee	 Small groups: Presentation of studies by small groups Comments on study protocols	<u>Moderated by:</u> D Menzies W Burman M Behr
4.00 – 4.30 PM	Course evaluations and closure	Dick Menzies