



McGill

McGill Summer Institute in Infectious Diseases and Global Health



3rd Annual TB Research Methods Course

McGill University, Montreal– June 13-17

Venue: Chancellor Day Hall, McGill University

3644 rue Peel (enter at 3660 rue Peel)

Montreal, QC, H3A 1W9

<https://goo.gl/maps/kjZoj>

Overview of Course Schedule

Day	Date	Time	Major themes
1	June 13, Mon	9.00 AM – 5.00 PM	Introductions and overview
2	June 14, Tues	9.00 AM – 5.00 PM	Operational research
3	June 15, Wed	9.00 AM – 5.00 PM	Modeling and decision analysis
4	June 16, Thur	9.00 AM – 5.00 PM	Randomized trials
5	June 17, Fri	8.30 AM – 4.30 PM	Molecular epidemiology, systematic reviews & qualitative research

Hosts:



GLOBAL HEALTH PROGRAMS



McGill International TB Centre
Centre international de TB McGill



J.D. MacLean Centre for Tropical Diseases
Centre J.D. Maclean pour les Maladies Tropicales

Institut de recherche
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Overview of small groups

Group	Topic	Group leaders
1	Randomized trials	Bill Burman & Greg Fox
2	Systematic reviews	Faiz Ahmed Khan & James Johnston
3	Economic analysis & TB modeling	Olivia Oxlade, Ted Cohen, & Kevin Schwartzman
4	Molecular Epidemiology	Marcel Behr & Robyn Lee
5	Operational Research	Tony Harries, Dick Menzies, Hannah Alsdurf, Amrita Daftary & Gonzalo Alvarez. This group will meet together on Day 1, and split into sub-groups for the rest of the week. Potential topics for sub-groups include: community based participatory research (lead by GA) and qualitative methods (lead by AD)


Day 1, June 13 [Monday] Overview: Research Design and Methods

Time	Lecture	Faculty
08.30 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 – 10.00 AM	Research as part of the post 2015 End-TB strategy of WHO	Dick Menzies
10.00 – 10.30 AM	What are (some of) the ‘big’ questions in global TB research?	Bill Burman
10.30 – 11.00 AM	Coffee	
11.00 – 11.30 AM	Getting started – the right question, the right design	Dick Menzies
11.30 – 12.00 PM	Key pitfalls – avoiding bias at every step	Madhukar Pai
12.00 – 12.30 PM	Debate “Research is a luxury – and not a priority for Low income countries”	Pro: Dick Menzies Con: Greg Fox
12.30 – 1.30 PM	Lunch	
1.30 – 2.10 PM	Late-breaker 1 “Tapping into the power of stem cells – for a new TB vaccine”	Maziar Divangahi
	Late-breaker 2 “ Treatment success with the new Short MDR regimen – an individual patient data meta-analysis”	Faiz Ahmed Khan
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 – 7.00 PM	Wine and Cheese Reception Venue: Bellini Building (3649 Promenade Sir-William-Osler Montreal, QC, H3G 0B1)	


Day 2, June 14 [Tuesday] 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 – 12:00 PM	Lecture 4: Examples of operations research changing policy and practice	Tony Harries
12.00 – 12.45 PM	From a Community question to health policy– the story of GeneXpert in Nunavut	Gonzalo Alvarez
12.45 – 1.45 PM	Lunch	
1.45 – 2.30 PM	Late-breaker 1 “The genomics of host macrophage responses to Mtb infection: Routes to novel therapeutic strategies”	John H. White
	Late-breaker 2 “Mycobacteria and Freund's Adjuvant”	Marcel Behr
2.30 – 5.00 PM		Small groups:
Including coffee		Finalizing the study design, study populations, data sources


Day 3, June 15 [Wednesday] Modeling and economic analyses

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	Olivia Oxlade
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	Realistic expectations: Sample size and power	Andrea Benedetti
12.45 – 1.45 PM	Lunch	
1.45 – 2.30 PM	Late-breaker 1 “Use of WGS to understand within host heterogeneity of TB among individuals dying with HIV-associated TB in South Africa”	Ted Cohen
	Late-breaker 2 “Revisiting screening for latent TB in health care workers”	Kevin Schwartzman
2.30 – 5.00 PM Including coffee	 <p>Small groups: Refining data gathering. Data analysis and sample size</p>	

Day 4, June 16 [Thursday] Randomized trials

Time	Lecture	Faculty
09.00 – 9.45 AM	Trial design – from clinical problems to clinical trials	Dick Menzies
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 – 12.00 PM	End-points, planned and unplanned secondary analyses, interim analyses, stopping rules	Dick Menzies
12.00 – 12.45 PM	Data analysis 101	Andrea Benedetti
12.45 – 1.45 PM	Lunch	
1.45 – 2.30 PM	Late-breaker 1 “Over-the-Counter antibiotic abuse by pharmacists and implications for TB control in India”	Madhukar Pai
	Late-breaker 2 “Modern genetics and old data”	Erwin Schurr
2.30 – 5.00 PM Including coffee	 <p>Small groups: Finalizing protocols Preparing presentations</p>	
5:00 – 7:00 PM	5 a 7 (social hour) cash bar	
	Thomson house	

Day 5, June 17 [Friday] Molecular Epidemiology, Systematic reviews and Qualitative 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 epidemiology of tuberculosis: inferring transmission and considerations for study design	Robyn Lee
10.20 – 10.40 AM	Coffee	
10.40 – 11.20 AM	Qualitative research – A complementary approach	Amrita Daftary
11.20 – 12.00 PM	Systematic reviews, meta-analyses and IPD	James Johnston
12.00 – 1.00 PM	Lunch	
1.00 – 4.00 PM Including coffee	 <p>Presentation of study protocols by small groups Comments on study protocols</p>	<u>Moderated by:</u> Dick Menzies
4.00 – 4.30 PM	Course evaluations and closure	Dick Menzies