



JUNE 17-19, 2019

# ADVANCED TB DIAGNOSTICS

“Congratulations. Admired the young, active and motivated... persons that shared their experiences. I appreciated the method of teaching...panel discussions that made the activity interactive. Moderators steered the discussions well.”

– ADVANCED TB DIAGNOSTICS PARTICIPANT

This advanced course will cover advanced topics in TB diagnostics research and implementation, including critical pathway for new TB tests, impact of new tests on clinical decision-making and therapeutic choices, cost-effectiveness in routine programmatic settings, and impact on patient-important outcomes. The course will also cover meta-analysis, mathematical modeling, and cost-effectiveness studies. Panel discussions will cover topics such as value chain for TB diagnostics development, market analyses, market dynamics, target product profiles, and barriers to scale-up of new diagnostics. Participants will include TB survivors, product manufacturers, donors, product development partnerships, policy makers, academics, clinicians, community advocates, public health implementers and National TB Program managers.

### COURSE DIRECTOR

**Madhukar Pai**, MD, PhD

Professor of Epidemiology, McGill University  
Director, McGill Global Health Programs  
Director, McGill International TB Centre

### COURSE FACULTY

**Niaz Banaei**, MD – Stanford University

**Claudia Denkinger**, MD, PhD – FIND

**Adithya Cattamanchi**, MD – UCSF

**David Dowdy**, MD, PhD – Johns Hopkins University

**Paul K. Drain**, MD, MPH, FACP – University of Washington

**Nora Engel**, PhD – Maastricht University

**Kathleen England**, PhD – Medecins Sans Frontieres

**Jennifer Furin**, MD, PhD – Harvard Medical School

**Robyn Lee**, PhD – Harvard University

**Ruvandhi Nathavitharana**, MBBS – BIMDC Harvard Medical School

**Marco Schito**, PhD – The Critical Path Institute

**Samuel Schumacher**, MSc, PhD – FIND

**Karen Steingart**, MD, MPH – Cochrane ID Group

**Anita Suresh**, MBA, MS – FIND

**Cesar Ugarte-Gil**, MD, PHD – Universidad Peruana Cayetano Heredia

**Kamini Walia**, PhD, MPH – Indian Council of Medical Research

*Faculty are still being confirmed and there may be changes to the above list.*

### CONTENT

Diagnosis is one of the biggest gaps in the TB cascade of care. We need better tools for TB diagnosis than what we have today and we need high quality diagnostic studies to evaluate new tools, and to develop evidence-based policies on TB diagnostics. We need data on outcomes such as accuracy of diagnostic algorithms (rather than single tests) and their relative contributions to the healthcare system, incremental value of new tests, impact of new tests on clinical decision-making and therapeutic choices, cost-effectiveness in routine programmatic settings, and impact on patient-important outcomes. Translation of policy into impact requires collecting evidence for scale-up, country-level data on cost-effectiveness and feasibility, implementation research, and local decisions on scale-up, delivery and impact assessment. All of these issues will be covered in this advanced course.

### OBJECTIVES

By the end of the course, participants will understand:

- Value chain for TB diagnostics development, current pipeline of diagnostics, market dynamics, WHO policies on new diagnostics, and challenges for scale-up
- Designs to evaluate impact of new tests on clinical decision-making, therapeutic choices, and patient-important outcomes
- Meta-analyses of diagnostic accuracy studies and GRADE approach to diagnostic policies
- Principles of implementation research, collecting evidence for scale-up, cost-effectiveness analyses and modeling studies in TB diagnostics

### TARGET AUDIENCE

- National TB Program managers and National Reference Lab managers
- Clinicians and nurses
- Researchers, students, trainees, fellows and academics involved in TB diagnostics research
- Product manufacturers
- Funding agencies
- Product development partnerships
- Policy makers and public health implementers
- Community advocates and civil society

### ENROLMENT

Maximum of 100 participants.

**2019 COURSES** To Register: <http://mcgill-idgh.ca/>



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Infectious Diseases and  
Global Health**