6th McGill Summer Institute in Infectious Diseases and Global Health

JUNE 1-12, 2020 • MONTREAL, CANADA
OVERVIEW

ABOUT THE INSTITUTE DIRECTOR

Madhukar Pai, MD, PhD, FCAHS
Dr. Pai is a Canada Research Chair in Translational Epidemiology & Global Health in the Department of Epidemiology, Biostatistics and Occupational Health at McGill University, the Director of McGill University’s Global Health Programs and the Director of the McGill International TB Centre. He is a member of the Royal Society of Canada and a Fellow of the Canadian Academy of Health Sciences. His research program is focused on using translational epidemiology and implementation science to enhance tuberculosis care and control, so that products, knowledge and policies can translate into saved lives. He has coordinated multiple courses and workshops on epidemiology, modeling, systematic reviews and meta-analysis around the world, including week-long courses on advanced tuberculosis diagnostics research in Montreal for the past nine years.

2020 COURSE DIRECTORS

Amrita Daftary, PhD, MPH
Assistant Professor, Global Health
School of Health Policy & Management
Dahdaleh Institute of Global Health Research
York University

Michael Libman, MD, FRCPC
Director, J.D. MacLean Centre for Tropical Diseases,
Divisions of Microbiology & Infectious Diseases,
McGill University Health Centre

Jishnu Das, PhD
Professor, McCourt School of Public Policy and
School of Foreign Service
Georgetown University

Dick Menzies, MD, Msc
Director, Respiratory Epidemiology and Clinical
Research Unit, McGill University Health Centre;
Director, WHO Collaborating Centre for
Tuberculosis Research

Nora Engel, PhD
Assistant Professor, Global Health Department of
Health, Ethics and Society / CAPHRI
Faculty of Health, Medicine and Life Sciences
Maastricht University

Makeda Semret, MD, MSc, FRCPC
Lead, Antimicrobial Stewardship Program,
McGill University Health Centre;
Director, Training Program in Infectious Diseases
and Medical Microbiology, McGill University

Rachel Kiddell-Monroe, LL.M
Professor of Practice, Institute for the Study of
International Development, McGill University;
International Board Director, Médecins Sans
Frontières and General Director,
See Change Initiative

Zelalem Temesgen, MD
Director, Mayo Clinic Center for Tuberculosis

Marina Klein, MDCM, MSc
Professor, Department of Medicine
McGill University

Erika Vlieghe, MD
Head of the Department of General Internal Medicine,
Infectious Diseases and Tropical Medicine,
University Hospital Antwerp; Professor of
Infectious Diseases, University of Antwerp

Chen Liang, PhD
Professor, Department of Medicine
Interim Director, McGill AIDS Centre
McGill University

Cédric Yansouni, MD, FRCPC, DTM&H
Associate Director, J.D. MacLean Centre for
Tropical Diseases,
Divisions of Microbiology & Infectious Diseases,
McGill University Health Centre
### WEEK 1: JUNE 1-6, 2020

All courses are full day (typically 9am-5pm) unless otherwise noted. Exact course start and end times will be announced with the release of agendas a few weeks before the course begins.

The courses week 1 are not accredited by the McGill Office of Continued Professional Development.

For week 2 offerings, please see page 14.

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For the June 2020 course schedule, see the table above.

To Register: [http://mcgill-idgh.ca/](http://mcgill-idgh.ca/)
The faculty was amazing, inside and outside of the classroom... The networking between those in this class was incredible... I am just starting my career, and it has changed my plan concerning my education for the upcoming years due to these conversations.

QUALITATIVE METHODS PARTICIPANT
A course focused on the principles and rigorous application of qualitative methods in formative, operational, evaluation and policy research in infectious disease in diverse global settings. Participants will work in small groups to develop qualitative research protocols.

COURSE DIRECTORS
Amrita Daftary, PhD, MPH
Assistant Professor, Global Health
School of Health Policy & Management
Dahdaleh Institute of Global Health Research
York University, Toronto, Canada
Nora Engel, PhD
Assistant Professor Global Health, Department of Health, Ethics and Society/ CAPHRI, Faculty of Health, Medicine and Life Sciences
Maastricht University, Netherlands

COURSE FACULTY
Course Faculty
Amrita Daftary, PhD, MPH – York University
Nora Engel, PhD – Maastricht University
Jennifer Furin, MD, PhD – Harvard University
Joanne Mantell, PhD – Columbia University
Andy McDowell, PhD – Tulane University

Guest Speakers
Matthew Hunt, PhD, PT – McGill University
Madhukar Pai, MD, PhD – McGill University

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

CONTENT
Qualitative methods can assess the social and behavioural contexts, and the complex determinants, impacts and outcomes of illness, healthcare seeking and disease control efforts, including public health programs, policies, and technologies. There is growing interest to integrate qualitative methods into traditional operational and biomedical research to improve our understanding of healthcare seeking behaviour, challenges to health service delivery, and to better understand how and why some interventions and technologies are successfully (or less successfully) implemented. This course will build participants’ capacity and research literacy to use qualitative methods to inform, innovate, contextualize, evaluate, and strengthen the delivery and utilization of healthcare services and technologies for infectious diseases (e.g., tuberculosis, HIV, malaria, Ebola) in lower-and middle-income settings.

The course will be interactive, and utilize case studies and practical exercises to cover the following topics in qualitative research:

1. Study designs and methodologies
2. Theoretical frameworks
3. Focus groups, observation and interviews: designs, skills and implementation
4. Approaches and methods for analysis
5. Multiple methods: integrating and sequencing qualitative and quantitative methods
6. Sampling and participant recruitment
7. Data management and storage
8. Ethics and evaluation criteria
9. Dissemination

Each day will begin with expert lectures on qualitative study design, implementation, analysis, and dissemination; followed by group exercises to apply and practice the lessons learned as well as short topical presentations and/or panel discussions. The day ends with small group sessions to develop protocols that are implementable over the subsequent year, under the mentorship of course faculty and will be presented at the end of the course.

OBJECTIVES
To be introduced to the principles and methods of qualitative research.

TARGET AUDIENCE
- Persons with a strong interest in qualitative and mixed methods, and little/no prior experience
- Persons involved in infectious disease programs, including program managers, innovators and M&E officers
- Junior faculty, doctoral and postdoctoral fellows engaged in global health research
- Clinical researchers and residents working internationally
- Research staff, including study coordinators, with an interest in international work
- Representatives of funding and/or advocacy bodies, grant reviewers

ENROLMENT
Maximum of 40 participants.
I would wholeheartedly recommend this course to anyone interested in humanitarian action. Rachel was a fantastic lecturer and weaver, encouraging everyone to participate and drawing the unique and diverse skill sets of her speakers and students expertly. The speakers she chose were from diverse ages, backgrounds and areas of expertise and this combination greatly enriched the discussions.

HUMANITARIAN ACTION PARTICIPANT
This unique three-day course will explore four key challenges confronting humanitarian action today: forced migration, climate crisis, access to medicines and the criminalisation of aid. Through a combination of inspiring lectures and interactive case studies, the course will explore emerging ethical dilemmas and current controversies around these issues. Building a bridge between theory and practice, this course will enable participants to tackle the challenges within their own spheres of influence.

COURSE DIRECTOR
Rachel Kiddell-Monroe, LL.M
Professor of Practice, Institute for the Study of International Development, McGill University; International Board Director, Médecins Sans Frontières and General Director, See Change Initiative

PREVIOUS GUEST SPEAKERS
James Orbinski, MD – Dahdaleh Institute for Global Health Research, York University
François Crépeau, O.C., F.R.S.C., Ad.E. – Hans & Tamar Oppenheimer Professor in Public International Law, McGill University, Director, McGill Centre for Human Rights and Legal Pluralism
Payam Akhavan, LLM SJD – Professor of International Law, McGill University and Member of the Permanent Court of Arbitration

PREVIOUS COURSE FACULTY
Marine Buissonniere – Independent researcher and consultant
Eloge Butera – Senior Policy Advisor to Minister of Public Safety and Emergency Preparedness for Canada
Matthew Chapman – Climate Reality
Abdulla Daoud – Refugee Centre
Carol Devine, MSc – Médecins Sans Frontières
Jessica Farber – Samuel Center for Social Connectedness
Chloe Hogg - Universities Allied for Essential Medicines
Adam Houston – University of Ottawa
Matthew Hunt, PhD – School of Physical and Occupational Therapy, McGill University
Jerry Natanine – Former Mayor, Clyde River, Nunavut
John Pringle, PhD – Ingram School of Nursing, McGill University
Leo Tremblay – MSF water and sanitation specialist
Andrew Zadel – MSF Yemen Project Coordinator

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

CONTENT
People around the world are facing profound challenges and are living in increasingly fragile contexts. These changing dynamics are forcing us to reflect on how humanitarian assistance is conceptualized and delivered to benefit vulnerable and marginalized populations.

Today, over 65 million people have been forced to leave their homes because of conflict, violence, climate change or extreme poverty. They are increasingly demonized by society. At the same time, inequitable access to affordable medicines and diagnostics, significant health impacts of accelerating climate change, and open attacks on the medical humanitarian mission continue to challenge our ability to deliver meaningful humanitarian assistance.

This course aims to provoke reflection and debate of these four trends. Participants will delve into the ethical dilemmas these trends present for humanitarian action. With input from thought-leaders and community advocates from the humanitarian, environmental and human rights field, participants will use practical examples and case studies to explore the political, human and ethical dimensions of these four global realities.

OBJECTIVES
The course will allow participants to develop skills in:
• Reflecting critically on contemporary humanitarian action
• Identifying key ethical dilemmas facing humanitarian practitioners and policy makers
• Debating humanitarian issues
• Advocating for meaningful change at grassroots and policy levels

The course will offer the opportunity to network with thought leaders and other participants.

TARGET AUDIENCE
This course will appeal to a wide range of participants from different countries including:
• Policy makers and ministry officials
• Researchers, academics and students from all disciplines who are interested in humanitarian issues (law, medicine, ethics, global health, political science, international development and more).
• Mid-career humanitarian workers, civil society and advocacy groups.

Participants from LMICs and indigenous communities are encouraged to apply.

ENROLMENT
Maximum of 60 participants.

2020 COURSES To Register: http://mcgill-idgh.ca/
“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
Adithya Cattamanchi, MD – UCSF
Claudia Denkinger, MD, PhD – Heidelberg University
Paul K. Drain, MD, MPH – University of Washington
Nora Engel, PhD – Maastricht University
Jennifer Furin, MD, PhD – Harvard Medical School
Ruvandhi Nathavitharana, MBBS – BIMDC Harvard Medical School
Olivia Oxlade, PhD – McGill University
Morten Ruhwald, MD, PhD – FIND
Samuel Schumacher, MSc, PhD – FIND
Karen Steingart, MD, MPH – Cochrane ID Group
Wayne van Gemert, MPH – Stop TB Partnership
Alice Zwerling, PhD – Ottawa University

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.

2020 COURSES To Register: http://mcgill-idgh.ca/
“[I enjoyed the] breadth of topics. Also I enjoyed the case studies... Real implementation experiences are very valuable to hear and are something not often communicated at scientific conferences. This forum seems ideal for this type of presentation. Very well done!”

AMR COURSE PARTICIPANT
The focus of this 3-day workshop is on understanding the complex causes underlying the emergence and spread of AMR, and on practical approaches to tackle diagnostics and antimicrobial stewardship in different settings.

COURSE DIRECTORS

Makeda Semret, MSc, MD, FRCPC
Lead, Antimicrobial Stewardship Program, McGill University
Health Centre; Director, Training Program in Infectious Diseases and Microbiology, McGill University

Erika Vlieghe, MD
Head of the Department of General Internal Medicine, Infectious Diseases and Tropical Medicine, University Hospital Antwerp;
Professor of Infectious Diseases, University of Antwerp

PREVIOUS COURSE FACULTY

Emmanuel Bottieau, MD – Institute of Tropical Medicine, Antwerp, Belgium
Peter J. Dailey, PhD, MPH – University of California, Berkeley
Haileyesus Gebre, MD PhD MPH – WHO
David Goldfarb, MD FRCP – University of British Columbia, Canada
Louis-Patrick Haraoui, MD MSc – Université de Sherbrooke
Eili Klein, MA, PhD – Johns Hopkins University and Center For Disease Dynamics, Economics & Policy
Christian Lavallée, MD – Université de Montréal
Michael Libman, MD FRCP – McGill University
Yves Longtin, MD FRCP(C) – McGill University
Yoshiko Nakamachi, RN, BScN, BA, PMP – University Health Network, Toronto
Piero Olliaro, MD, PhD – FIND
Jeff Pernica, MD FRCP – McMaster University, Canada
Louis Valiquette, MD MSc FRCP(C) – Université de Sherbrooke
Jorg Janne Vehreschild, MD – University of Cologne
Heiman Wertheim, MD PhD - Radboud University, Netherlands
Cédric Yansouni, MD, FRCP, DTM&H – McGill University

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

CONTENT

Antimicrobial resistance (AMR) is now one of the biggest threats facing modern medicine. Initially described mostly in association with hospital-associated infections in high-income countries, the highest rates of AMR are now reported from low and middle-income countries (LMIC) around the world. The causes underlying the global rise in AMR are complex, but central to this crisis is overconsumption of antibiotics. This 3-day workshop will focus on understanding the complex causes underlying the emergence and spread of AMR, and on approaches to tackle antibiotic misuse in different settings.

The workshop format is a mix of plenary talks and panel discussions, with opportunities to interact with participants who work across the spectrum of the antimicrobial resistance space in different countries.

Clinicians, researchers, implementers, and health educators from both high-income and low and middle-income countries will share questions, successes, and lessons learned to advance the field of AMR.

TARGET AUDIENCE

This course appeals to a wide range of participants including:
• Clinicians, pharmacists, technologists, researchers and students studying infectious diseases, tropical medicine, or global health
• Policy makers and public health agency officials
• Product developers and funders
• Community advocacy groups working in global health

ENROLMENT

Maximum of 100 participants.
'I liked the broad topics of the course delivered. This is the first time I had opportunity to listen to opinions of economist, journalist and expert of World Bank.'

QUALITY OF TB CARE PARTICIPANT
QUALITY OF TB CARE • JUNE 4-6, 2020

Poor quality TB care is widespread and is a key driver of the TB epidemic. This course will address the critical need to go beyond coverage and improve quality of TB care in low and middle-income countries.

COURSE DIRECTORS

Madhukar Pai, MD, PhD
Director, McGill Global Health Programs
Director, McGill International TB Centre
McGill University

Zelalem Temesgen, MD
Director, Mayo Clinic Center for Tuberculosis

Jishnu Das, PhD
Professor, McCourt School of Public Policy and School of Foreign Service, Georgetown University

COURSE FACULTY

Bruce Agins, MD – UCSF & HealthQual
Adithya Cattamanchi, MD – UCSF
Carmen Christian – University of the Western Cape
Amrita Daftary, PhD, MPH – York University
Benjamin Daniels, PhD – Harvard School of Public Health
Margaret Kruk, MD – Harvard School of Public Health
Ada Kwan, MHS – University of California, Berkeley
Elysia Larson, PhD – Harvard School of Public Health
Lindwe Mvusi, MD - Department of Health, South Africa
Ramnath Subbaraman, MD – Tufts University
Nandita Venkatesan – Survivors Against TB, India

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

CONTENT

In order to end TB, we need to increase access to TB care and simultaneously ensure that the care provided is of sufficiently high quality (i.e. care that is safe, effective, patient-centered, timely, efficient, and equitable). There is plenty of evidence that quality of TB (and TB-HIV coinfection and MDR-TB) care is poor in many settings, and this is a key reason for the high mortality rate seen in LMICs. This means National TB programs need to think beyond coverage of TB services; they need to start measuring and systemically improving quality of TB care in LMICs. This session of leading international experts will:

• Discuss and debate the best approaches to measurement of quality of TB care
• Review data on quality of TB care and factors that drive variation in care
• Explore quality of TB care in private versus public sectors
• Give examples of quality improvement programs in TB as well as other areas of global health (e.g. from HIV/AIDS) that have worked or failed through case study lessons
• Explain the use of quality dashboards, audits and tools, and their likely impact on quality

OBJECTIVES

By the end of the course, participants will be able to:

• Review various approaches to measuring quality of TB care in low-resource settings
• Summarize current evidence on quality of TB care, and give examples of quality improvement programs that have worked or failed
• Describe the role of research in understanding variation in quality, the know-do gap, and provider performance improvement

TARGET AUDIENCE

• National TB Program managers and program implementers
• Clinicians and nurses
• Researchers and academics involved in TB care and prevention
• Funding agencies
• Product development partnerships
• Policy makers and public health implementers
• Community advocates and civil society

ENROLMENT

Maximum of 100 participants.

2020 COURSES To Register: http://mcgill-idgh.ca/
All courses are full day (typically 9am-5pm) unless otherwise noted. Exact course start and end times will be announced with the release of agendas a few weeks before the course begins.

**WEEK 2: JUNE 7-12, 2020**

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2020 COURSES
To Register: http://mcgill-idgh.ca/
Strategies to end the HIV epidemic

New course for 2020 lead by expert faculty from the McGill AIDS Centre!
This course will introduce the up-to-date key concepts and methodologies that are currently being implemented in the efforts to halt and end the HIV epidemic. Students will learn about the HIV care cascade that forms the basis of the United Nations Programme on HIV/AIDS (UNAIDS) 90-90-90 targets to end AIDS as a public health threat by 2030. Topics will revolve around understanding and responding to HIV epidemics using biobehavioural surveillance, HIV phylogenetics, targeted population research, HIV eradication, and HIV testing, treatment, and prevention interventions.

**COURSE DIRECTORS**

Chen Liang, PhD  
Professor, Department of Medicine  
Interim Director, McGill AIDS Centre  
McGill University

Marina Klein, MDCM, MSc  
Professor, Department of Medicine  
McGill University

**COURSE FACULTY**

Bluma Brenner – McGill University  
Nicolas Chomont – CHUM, Université de Montréal  
Joseph Cox, MD – McGill University  
Catherine Hankins – McGill University  
Mathieu Maheu-Giroux – McGill University  
Bohdan Nosyk – Simon Fraser University  
Nitika Pai – McGill University  
Hugo Soudeyns – CHU Sainte-Justine, Université de Montréal  
Sharon Walmsley – University of Toronto  
Gerasimos J. Zaharatos – McGill University

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

**CONTENT**

The course’s main theme centres on how we can stop the HIV epidemic through the application of effective interventions, including the use of antiretroviral medications for prevention and treatment. Lectures will elucidate how the UNAIDS “90-90-90” targets can be best supported to achieve an end to the epidemic. Specifically, lectures will explore the tools, methods and resources that have been developed and implemented to respond to the HIV epidemic. Topics that will be discussed include the use of comprehensive HIV surveillance systems, including biobehavioural surveys, to monitor and understand the HIV epidemic, as well as HIV phylogenetics, mathematic modeling of HIV transmission, HIV cure and targeted population research. In addition, the key role of HIV testing technologies and HIV treatment and prevention strategies will be examined in depth. Students will have opportunities to visit the McGill AIDS Centre labs, observe onsite HIV isolation, viral genome sequencing and phylogenetic analysis.

**OBJECTIVES**

- Understand the HIV care cascade, the global targets to end HIV epidemic and how to measure success  
- Identify the major barriers to success in reaching global targets  
- Understand HIV biobehavioural surveillance as part of second generation surveillance  
- Learn about phylogenetics to monitor HIV epidemic in real time  
- Learn about HIV transmission in targeted populations  
- Learn about the up-to-date HIV testing technologies, HIV treatment and prevention strategies  
- Learn mathematic modeling and other research methods to understand HIV transmission and epidemic  
- Learn the main HIV cure strategies aimed at eradicating HIV infection

**TARGET AUDIENCE**

This course is suitable for graduate students (MSc and PhD), postdoctoral fellows, medical school students, clinician researchers, healthcare professionals (nurses, physicians) who are interested in learning the current efforts and strategies to control and end HIV epidemic.

**ENROLMENT**

Maximum of 50 participants.

[2020 COURSES To Register: http://mcgill-idgh.ca/](http://mcgill-idgh.ca/)
“This introduction to illness, diagnosis treatment, complication prevention was a huge help. It increased my knowledge so much as I have had only a small amount of tropical disease teaching before.”

TROPICAL MEDICINE COURSE PARTICIPANT
The J. D. MacLean Centre for Tropical Disease at McGill University has provided training to generations of doctors and nurses providing clinical care to travelers, immigrants, and populations in endemic areas around the world for over 30 years. This course focuses the best care and diagnosis of people affected by tropical and parasitic diseases, with attention to linking laboratory diagnostics and research to the clinical treatment of patients.

COURSE DIRECTORS
Michael Libman, MD, FRCPC
Director, J.D. MacLean Centre for Tropical Diseases, Divisions of Microbiology & Infectious Diseases, McGill University Health Centre
Sapha Barkati, MD, MSc, DTM&H
Educational Director, J.D. MacLean Centre for Tropical Diseases, Divisions of Microbiology & Infectious Diseases, McGill University Health Centre
Cédric Yansouni, MD, FRCPC, DTM&H
Associate Director, J.D. MacLean Centre for Tropical Diseases, Divisions of Microbiology & Infectious Diseases, McGill University Health Centre

COURSE FACULTY
McGill Centre for Tropical Diseases Faculty
Kendall Billick, MD, DTM&H
Christina Greenaway, MD, FRCPC
Selim Rashed, MD, MSc, CPSQ
Makeda Semret, MD CM, FRCPC
Brian J. Ward, MD

Guest Course Faculty
Isaac Bogoch, MD - University of Toronto
Christina Coyle, MD – Albert Einstein College of Medicine
Kevin Kain, MD - University of Toronto
Steven Schofield, PhD - Department of National Defence

Laboratory Course Faculty
Director: Karine Thivierge, PhD, Director of Parasitology, Laboratoire de santé publique du Québec
Lyne Cedilotte, Technical Coordinator of Parasitology, MUHC Department of Microbiology
Momar Ndao, DVM, MSc, PhD
Director, National Reference Centre for Parasitology

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

CONTENT
Laboratory Course: Malaria and Parasitic Zoonoses
- 1 day (Sunday)
The laboratory workshop uses a mix of (i) lecture overviews of blood borne and intestinal parasites and (ii) hands-on teaching of microscopy for medical laboratory technologists, microbiologists, clinicians, and nurses involved in the care of tropical and parasitic diseases.

Tropical and Geographic Medicine Clinical Review
- 3 days (Monday-Wednesday)
This course uses a series of interactive lectures to address the latest health issues and treatments for travelers and endemic populations affected by tropical and parasitic diseases. Faculty will present the state-of-the-art in clinical care, research, and diagnostics, as well as preventative medicine for travelers.

You may register for one, or both of these course components; however, the laboratory section is limited to 40 participants.

OBJECTIVES
• Understand the state-of-the-art in clinical care and diagnosis of imported and endemic tropical and parasitic diseases
• Be familiar with emerging and re-emerging infectious diseases in Clinical Tropical Medicine
• Understand recent issues in immunization practice
• Increase expertise in the laboratory diagnosis of parasitic diseases [laboratory component]

TARGET AUDIENCE
Professionals involved in the care of tropical and parasitic diseases, either in Canada or in endemic settings, including
• Family Physicians
• Infectious Diseases Specialists / Medical Microbiologists
• Nurses
• Medical laboratory technologists [Lab component]

ENROLMENT
Maximum of 100 participants. (40 for the lab component)

2020 COURSES To Register: http://mcgill-idgh.ca/
“This summer course is a great gateway to connect with the current leaders who are fighting TB and inspire young scientists like me to become future leaders who will eliminate TB.”

TB RESEARCH METHODS PARTICIPANT
TB RESEARCH METHODS • JUNE 8-12, 2020

An intensive course on methods of operational research, molecular epidemiology, randomized controlled trials, systematic reviews and meta-analyses, qualitative / community based research, decision analyses and modeling. Format will include lectures, debates, panel discussions and small group work.

COURSE DIRECTOR
Dick Menzies, MD, MSc
Director, Respiratory Epidemiology and Clinical Research Unit, McGill University Health Centre; Director, WHO Collaborating Centre for Tuberculosis Research

COURSE FACULTY
Gonzalo Alvarez, MD, MPH – University of Ottawa
Marcel Behr, MD, MSc – McGill University
Andrea Benedetti, PhD – McGill University
Bill Burman, MD – Denver Public Health
Jonathon Campbell, PhD – McGill University
Dick Chaisson, MD – Johns Hopkins University
Amrita Daftary, PhD, MPH – York University
Maziar Divangahi, PhD – McGill University
Greg Fox, MD, PhD – University of Sydney
Anthony Harries, MD – The Union, Paris
James Johnston, MD, MPH – University of British Columbia
Faiz Ahmad Khan, MD, MPH – McGill University
Richard Long, MD, FRCP, FCCP – University of Alberta, TB Program Evaluation & Research Unit
Dick Menzies, MD, MSc – McGill University
Olivia Oxlade, PhD – McGill University
Kevin Schwartzman, MD, MPH – McGill University
Alice Zwerling, PhD, MSc, BSc – University of Ottawa

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

CONTENT
This course will introduce broad tuberculosis research topics – research as part of the World Health Organization’s new Global Plan to End TB, priorities in drug resistant and HIV-related tuberculosis, as well barriers and progress in indigenous TB in Canada. Every morning session will focus on a different methodology – operational research, molecular epidemiology, systematic reviews, randomized trials and economic analysis. In the afternoons, there will be two “late-breakers”, short presentations of exciting new findings from course faculty, followed by basics in biostatistical methods, then small group sessions to work in operational research, molecular epidemiology, systematic reviews, qualitative / community based research, randomized trials or cost-effectiveness analysis. The output from each group will be presented to the entire group on the final afternoon.

TARGET AUDIENCE
• Trainees starting their TB research careers
• MSc, MPH and PhD students working on TB research projects
• Postdoctoral fellows, clinical fellows and residents working on TB projects
• Junior faculty with a strong interest in TB research
• Research staff, nurses and coordinators managing TB research projects
• Persons involved in TB control programmes with interest in research and evaluation methods

ENROLMENT
Maximum of 50 participants.

2020 COURSES To Register: http://mcgill-idgh.ca/
Vibrant nightlife, eclectic cuisine, and cobblestone streets. Here in Montreal, the old city blends seamlessly into a modern metropolis of glass and steel, where trendy boutiques sit side-by-side with quaint bistros and brasseries.

Surrounded by the mighty St. Lawrence River and more than 400 islands, Montreal buzzes with energy and excitement all year long. Festivals abound, celebrating the power of laughter, fireworks, diversity, fast cars and cool jazz, a wintertime fusion of performing arts, fireworks and fine wine and dining.

The world’s second-largest French speaking city, Montreal is renowned for its numerous universities, medical and scientific research centers, as well as for its cultural and artistic life, excellent restaurants and hotel network. While French is the official language of the Province of Québec, English is also widely spoken.

You can enjoy the artisan studios of the Old Port, or the shops, theatres, and major department stores of the underground city. Montreal's artistic scene includes one of the world’s leading orchestras, an internationally-renowned ballet company, English and French theatres, comedy clubs, and dozens of museums and galleries.

Enjoy the city’s mixture of European and North American charm that both surprises and enchants participants of the Summer Institute year after year.

The Infotouriste Centre located near the Summer Institute, and in the heart of the city, offers free tourism information about Montréal, and the rest of the province of Québec. You can find out about guided bus tours, STM transit fares, Montréal Museums, cruises and car rentals. The Infotouriste Centre is located at: 1255 Rue Peel suite #100, Montréal, QC H3B 4V4

Additional Information about activities can also be found at the Tourisme MTL website: [www.mtl.org/en](http://www.mtl.org/en)
## REGISTRATION FEES

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>1 DAY COURSE</th>
<th>2 DAY COURSE</th>
<th>3 DAY COURSE</th>
<th>5 DAY COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students and trainees from McGill University and its affiliated hospitals</td>
<td>$110</td>
<td>$220</td>
<td>$330</td>
<td>$550</td>
</tr>
<tr>
<td>Applicants working or studying in low or middle income countries</td>
<td>$170</td>
<td>$340</td>
<td>$510</td>
<td>$850</td>
</tr>
<tr>
<td>- Other students and trainees from high income countries who are registered at a college of university</td>
<td></td>
<td></td>
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<tr>
<td>- Registered nurses</td>
<td>$210</td>
<td>$420</td>
<td>$630</td>
<td>$1,050</td>
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<tr>
<td>Industry applicants</td>
<td>$700</td>
<td>$1,400</td>
<td>$2,100</td>
<td>$3,500</td>
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<tr>
<td>All other applicants</td>
<td>$350</td>
<td>$700</td>
<td>$1,050</td>
<td>$1,750</td>
</tr>
</tbody>
</table>

*All prices are in Canadian Dollars*

## Notes

- Participants may apply for multiple courses as long as they don’t overlap with each other.
- Payment information will be provided upon confirmation and acceptance of your application. Please do not make any travel arrangements until your application has been accepted.
- Visa letters will only be sent when course fee payments have been completed.
- Cancellation and refund policy can be found on the course website.
- Fees are subject to change. Please consult the website for the most up-to-date fee schedule.
- Faculty listed for each course are subject to change.
From McGill to the World, Join us for 2020!

Research Infectious Diseases and Immunity in Global Health Program
Improving Global Health through Research

2020 HOSTS

McGill Global Health Programs
McIntyre Medical Bldg., Room 633
3655 Promenade Sir Williams Osler
Montreal, QC H3G 1Y6
Phone: 514-398-5345

Summer Institute Director
Madhukar Pai, MD, PhD
Course Director
McGill Global Health Programs
summerinstitute.med@mcgill.ca

McGill University
Research Institute

Centre universitaire de santé McGill
Institut de recherche

PAM/WHO Collaborating Centre for Tuberculosis Research

McGill International TB Centre

Interdisciplinary Initiative in Infection and Immunity

McGill Summer Institute in Infectious Diseases and Global Health