

2026 INTERDISCIPLINARY SYMPOSIUM

Innovation, Insight and Action for future Public Health Emergencies

Wednesday May 6, 2026

8:00 a.m. - 6:00 p.m.

Hart House, University of Toronto



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Welcome Message from the Director



Welcome to the 2026 Interdisciplinary Symposium of the Institute of Health Emergencies and Pandemics. I am pleased to welcome Institute members, trainees, and partners to Hart House as we come together to reflect on our collective work and to consider priorities for the future.

Over the past several years, the Institute has grown in both scale and impact. Since our designation as a University of Toronto Institutional Strategic Initiative in 2023, we have built a network of more than 200 faculty members across 12 academic divisions and supported 220 trainees through research funding and training. We have invested over \$1.1 million in interdisciplinary research and training, and helped secure more than \$5 million in leveraged funding, while convening events and symposia that connect

researchers, policymakers, practitioners and communities ([Annual Report](#)).

This year marks an important milestone with the evolution of our name, from the Institute for Pandemics to the [Institute of Health Emergencies and Pandemics](#), reflecting an expanded mandate that encompasses preparedness, response, and recovery from health emergencies and polycrisis, using an all-hazards approach. These include, but not limited to, pandemics, large-scale epidemics, accidental or deliberate biological, chemical and nuclear threats, natural disasters and mass casualties.

The rebrand recognizes that today's public health challenges extend beyond pandemics alone and require integrated, interdisciplinary solutions. The symposium theme, 'Innovation, Insight, and Action for

Director's message continued

Future Public Health Emergencies' with its focus on *data-driven innovation*, *transformative policy*, and *public trust and community resilience*, reflects this evolution and underscores the Institute's commitment to applied research, collaboration, and real-world impact. Through thematically focused sessions, the symposium will showcase work informed by the Institute's six [research clusters](#), reflecting the breadth of expertise within the Institute and our commitment to addressing complex public health challenges through cross-sectoral collaboration.

This gathering also provides an opportunity to celebrate and recognize progress achieved over the past year. As highlighted in our [Annual Report](#), IHEP-supported research has informed policy discussions, strengthened community-engaged preparedness efforts, and contributed to national and international conversations on health emergencies. These accomplishments

reflect the sustained engagement and collective effort of the IHEP community.

I would like to thank our faculty members, trainees, staff, and partners for their continued contributions to the Institute's development and impact. I look forward to the conversations and insights that will emerge from this symposium, and to the work ahead as we continue to build the evidence, partnerships, and capacity needed to strengthen preparedness for future public health emergencies.



Dr. Nelson Lee
Director
*Institute of Health
Emergencies and Pandemics*

About the Institute

The Institute of Health Emergencies and Pandemics (IHEP) brings together experts across U of T and beyond to advance research, training, and real-world solutions for emerging health threats.

Since our designation as an Institutional Strategic Initiative in 2023, we have expanded our impact through:

\$5M+

Leveraged funding

75+

refereed publications

15

Graduate
Studentship
Awardees

\$1.4M

internal funding
awarded

10

Postgraduate fellows
from 5 different
faculties

20+

**high-impact
events**

supporting knowledge
exchange

Institute Leadership

Our Steering Committee brings together leaders from across the University of Toronto to provide strategic direction, oversight direction, oversight, and expertise that advance the Institute's mission.



Nelson Lee

IHEP Director

Dalla Lana School of Public Health



András Tilcsik

Professor

Rotman School of Management



Adalsteinn Brown

Founding Director and Dean,

Dalla Lana School of Public Health



Geoff Anderson

Professor

Dalla Lana School of Public Health



Tedd Konya

IHEP Associate Director

Dalla Lana School of Public Health



David Fisman

Professor

Dalla Lana School of Public Health



Sara Allin

Associate Professor

Dalla Lana School of Public Health



Fahad Razak

Associate Professor

Temerty Faculty of Medicine



Brian Baigrie

Associate Professor

Faculty of Arts & Science



Mina Tadrous

Professor

Leslie Dan Faculty of Pharmacy



Scott Gray-Owen

Professor

Temerty Faculty of Medicine



Kathleen (Kathi) Wilson

Professor

University of Toronto Mississauga



Jeff Siegel

Professor

Faculty of Applied Science & Engineering



Steven Hermans

Institutional Strategics Initiative Officer

Division of the Vice-President, Research & Innovation

Symposium information

This year's theme is "Innovation, Insight and Action for future Public Health Emergencies."

The Institute of Health Emergencies and Pandemics (IHEP) will hold our 2026 Interdisciplinary Symposium on May 6th at Hart House on the St. George campus of the University of Toronto

This event marks the third annual IHEP symposium and the first under the Institute's new name. Invited members of the Institute, university, government, private sector, and community members will come together for presentations and discussions around IHEP's research clusters: applied intelligence, health systems solutions, community and equity, health security, public trust and communication, and policy implementation.



How to get to the venue:

Join us in the Debates Room ([room 2034, 2nd floor](#)) at Hart House, 7 Hart House Cir, Toronto, ON M5S 3H3, located on the St. George campus of the University of Toronto.

For directions, accessibility details, and visitor guidelines, please visit: <https://harthouse.ca/about/visitor-info>.

By Public Transit

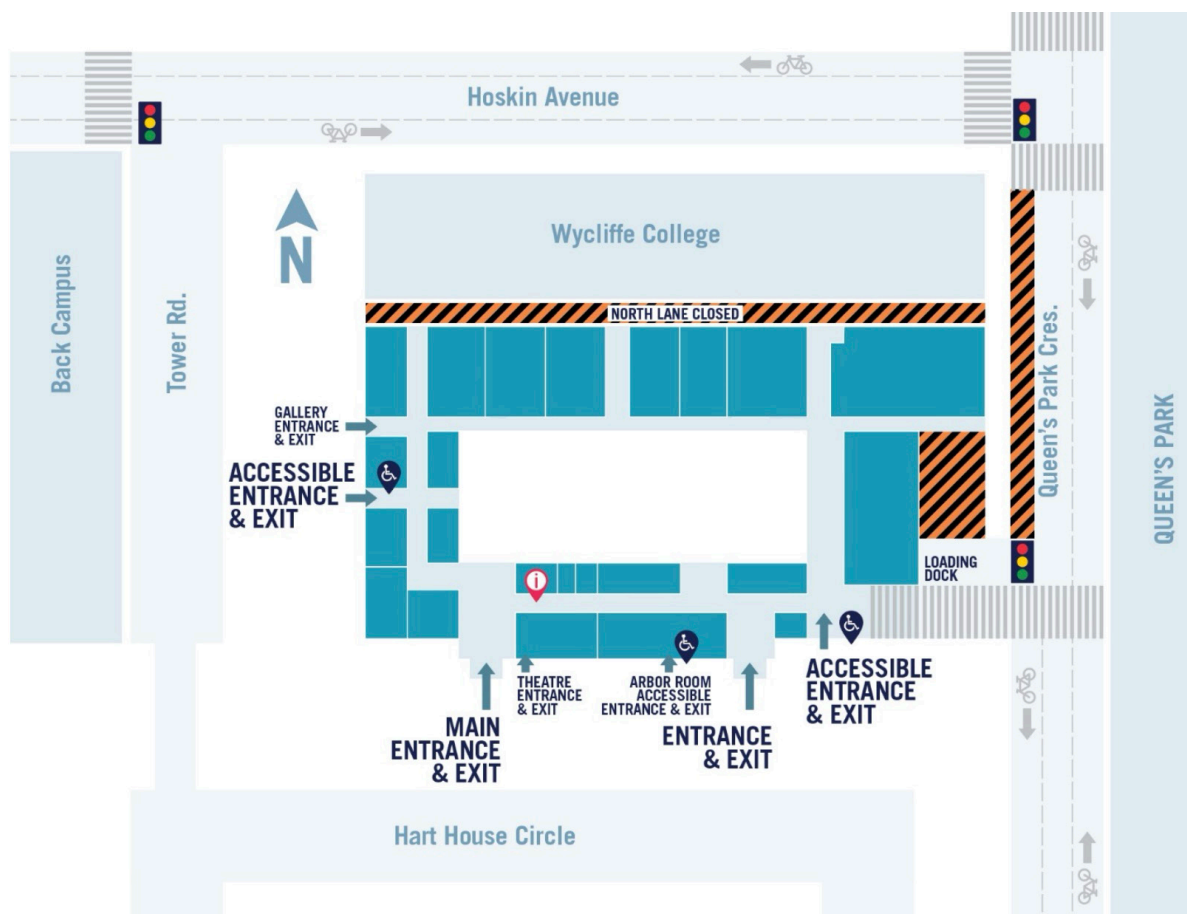
Hart House is a 5-minute walk south of the St. George TTC Station (use the St. George Street exit out of the station) or Southwest of the Museum TTC Station (use the Queen's Park Circle exit out of the station).

By Bicycle

Convenient bike racks are available at the north and south entrances of the building.

By Car

The closest major intersection is St. George St. and Bloor St. Parking for a fee is available at the Landmark Garage at 35 Hart House Circle. The garage can only be accessed from Wellesley Street West, directions can be found using [this link](#).



Hart House Floor Plan [Map]. Hart House (n.d.). <https://harthouse.ca/about/visitor-info>

Need Wi-Fi?



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1

SMS

Text (SMS) the indicated keyword with your mobile to the phone number.

2

Receive

You will immediately receive a return SMS containing your personal Wi-Fi username & password.

3

Wi-Fi!

Select the eduroam Wi-Fi network on your device & enter your username & password. You are now online!

If SMS is not working, please visit the Information Services Desk for a pre-generated login, or locate the AV staff member assigned to your event.

Agenda

8:00-9:00 **Breakfast and registration**

9:00-9:15 **Welcome and announcements**

Opening remarks by Dr. Nelson Lee, followed by Dean Adalsteinn Brown

9:15-10:00 **Morning Keynote**

Title: Preparing for health emergencies and future pandemics: Lessons learned from COVID-19 (a federal perspective)

Keynote speaker: Dr. Howard Njoo, former Interim Chief Public Health Officer of Canada

10:00-10:15 **Coffee break** | Meeting Room 2037

10:15-11:45 **Session 1: Data-driven innovations for health emergencies: what's missing, what's next**

Moderator: Dr. Fahad Razak

Panel: Alison Hill, Jeff Siegel, Mina Tadrous & Dr. Fahad Razak

11:45-12:45 **Lunch** | Meeting Room 2037

Agenda

12:45-13:30

Afternoon Keynote

Title: Artificial Intelligence and Preparedness for Emergencies & Pandemics: Considerations for Public Health Practice

Keynote speaker: Dr. Daniel Barnett, Johns Hopkins University

13:30-15:00

Session 2: Transforming policy to enhance emergency preparedness and response

Moderator: Dr. Brian Schwartz

Panel: András Tilcsik, Dr. Brian Schwartz, Quinn Grundy & Dr. Andrew Pinto

15:00-15:15

Coffee break | Meeting Room 2037

15:15-16:45

Session 3: Examining public trust (?) and community resilience during health crises

Moderator: Chavon Niles

Presenters: Colin Furness, Chavon Niles, Brian Baigrie, Wendy Porch, Tyllin Coreiro & Vaibhav Sawhney

16:45-17:00

Closing remarks

17:00-18:00

Networking reception

Morning keynote speaker

Dr. Howard Njoo

Former Interim Chief Public Health Officer of Canada



Dr. Howard Njoo was the Interim Chief Public Health Officer of Canada and previously the Deputy Chief Public Health Officer until his retirement from the federal government in April 2026.

He has 35 years of experience working across all levels of government in Canada as a public health physician and medical epidemiologist, as well as being a front line clinician.

At the federal government level, Dr. Njoo played a key role in emergency preparedness and management, including multi-jurisdictional infectious disease outbreaks in Canada such as SARS and H1N1, while also focusing on eliminating tuberculosis, addressing sexually transmitted and bloodborne infections, and reducing the burden of antimicrobial resistance. Throughout the COVID-19 pandemic, he was a key federal government spokesperson communicating to Canadians in both official languages.

Dr. Njoo has also been a strong advocate for non-communicable disease prevention and health promotion, having been involved in tobacco control and lung health initiatives and advancing health equity through a social determinants lens.

In addition, Dr. Njoo has extensive international health experience, including deployments to Haiti post earthquake and to Guinea for the Ebola outbreak, as well as multiple missions for Joint External Evaluations for the International Health Regulations. He is currently an expert consultant to the WHO as a member and past vice chair of the Pandemic Influenza Preparedness Framework Advisory Group.

Presentation

Preparing for health emergencies and future pandemics: Lessons learned from COVID-19 (a federal perspective)

Dr. Howard Njoo offers a comprehensive federal perspective on preparing for health emergencies and future pandemics, drawing on lessons learned from the COVID-19 experience. The presentation explores the federal government's role in national readiness and response, including leadership during crises, intergovernmental collaboration with provinces and territories, and coordination with international public health agencies. Dr. Njoo will reflect on key successes and challenges, highlighting the importance of surveillance, data-sharing, risk communication, preparedness planning, and public trust. The session will provide practical insights into how these lessons can strengthen Canada's public health system and improve readiness for future health emergencies.

Afternoon keynote speaker

Dr. Daniel Barnett Johns Hopkins University



Dr. Daniel Barnett is a Professor in the Department of Environmental Health and Engineering at Johns Hopkins Bloomberg School of Public Health (JHBSPH), where he has joint appointments in the Department of Health Policy and Management and in the Department of Health, Behavior and Society. He directs the Public Health Preparedness Certificate Program at JHBSPH. Dr. Barnett's research includes a focus on psychosocial resilience dimensions of public health & healthcare system functioning during and after disasters. He received his MD degree from The Ohio State University College of Medicine, and he completed his residency training in General Preventive Medicine at Johns Hopkins.

Presentation

Artificial Intelligence and Preparedness for Emergencies & Pandemics: Considerations for Public Health Practice

This presentation will characterize current and emerging practice-based perspectives on the multifaceted roles of artificial intelligence (AI) for public health agencies — including how AI maps onto the 10 Essential Public Health Services, and public health emergency & pandemic preparedness-relevant domains specifically. The presentation will describe current evidence gaps regarding AI in these contexts and characterize corresponding timely avenues for future applied research in this space.

10:15-11:45

Data driven innovations for health emergencies: what's missing, what's next

This session examines how data and innovation can strengthen preparedness for future public health emergencies by harnessing data, modelling, and innovative systems solutions. Speakers will identify key gaps, showcase emerging research, from environmental modelling to pharmacy-based insights, and demonstrate how these innovations can be translated into real-world action. Focusing on what's missing and what comes next, the session highlights opportunities to build a more resilient, data-ready health security and health system landscape.

Session objectives

- Highlight previous work that has leveraged data to respond to Health Emergencies
- Identify critical data gaps and underutilized information needed to strengthen policy relevant decision making
- Discuss how to translate data and modelling insights into timely, actionable policy decisions
- Explore forward looking strategies to ensure models and systems are prepared for emerging and future threats



Session 1: Data driven innovations for health emergencies: what's missing, what's next

Presenters



Alison Hill
Faculty of Arts
& Science

Assistant Professor Alison Hill's research group develops mathematical models of infectious disease dynamics and evolution to inform intervention strategies. She has worked extensively on HIV/AIDS, focusing on the evolution of drug resistance, the dynamics of latent infection, and the impact of novel immunotherapies. Since 2020, she has contributed to COVID-19/SARS-CoV-2, RSV, and influenza infection projections with the Johns Hopkins Infectious Disease Dynamics group and the Scenario Modeling Hub, including estimating vaccine impact. Her work frequently focuses on the intersection of human behaviour and disease dynamics, the evolution of new disease variants, and the mechanisms of persistent infection. She has taught infectious disease modelling at the undergraduate, graduate, and continuing-professional-education levels. Prof. Hill received her BS from Queen's University, her PhD from the Harvard-MIT Division of Health Sciences & Technology, and her MPH from Harvard School of Public Health. She received an NIH Director's Early Independence Award, and was faculty at Johns Hopkins University before moving to University of Toronto in 2025.



Jeff Siegel
Faculty of Applied
Science & Engineering

Jeffrey Siegel is Professor in the Department of Civil & Mineral Engineering and a member of the Hub for Advancing Buildings. He holds joint appointments at the Dalla Lana School of Public Health and the Department of Physical & Environmental Sciences. He holds an M.S. and Ph.D. in Mechanical Engineering from the University of California, Berkeley as well as a B.Sc. from Swarthmore College. He is fellow of ASHRAE and a member of the Academy of Fellows of ISIAQ. His research interests including healthy and sustainable buildings, ventilation and indoor air quality in residential and commercial buildings, control of indoor particulate matter, the indoor microbiome, and moisture interactions with indoor chemistry and biology. Dr. Siegel is an active member of ISIAQ and ASHRAE and was an associate editor for the journal Building and Environment from 2014-2018. He teaches courses in indoor air quality, sustainable buildings, and sustainable energy systems. Prior to his position at the University of Toronto, Dr. Siegel was an Associate Professor at the University of Texas.

Session 1: Data driven innovations for health emergencies: what's missing, what's next

Presenters



Mina Tadrous
Leslie Dan Faculty
of Pharmacy

Professor Tadrous is a licensed pharmacist and pharmacoepidemiologist. He has developed an impactful research program that has helped change drug policies in Ontario and nationally, and has earned a reputation as a respected teacher and mentor. He leads research in the Faculty's clinical, social and administrative pharmaceutical sciences division, using real-world evidence to improve how medications are used. He works with policymakers and large data sets to answer questions about medication safety and effectiveness. Prof. Tadrous' research focus on two main areas of interest: post-marketing real-world evidence of medications' utilization and pharmaceutical policy. He is keenly interested in using and developing advanced pharmacoepidemiologic methods to study the safety, effectiveness, and utilization of drugs to inform clinical practice and policy. His research has helped inform policies that improve access to critical medications, including chronic hepatitis B therapeutics.



Dr. Fahad Razak
Unity Health

Dr. Fahad Razak, an internist and epidemiologist, and his research focuses on improving the care of hospitalized patients through application of advanced analytic methods to hospital big data. He co-founded GEMINI, the largest hospital research network in Canada, and one of few such examples globally.

Dr. Razak completed an Engineering Science degree, Medical Doctorate, and Residency at the University of Toronto. He was the first physician to be appointed the David E. Bell Fellow at Harvard University. Notable research recognitions include the Canadian Society of Internal Medicine's New Investigator Award and the Graham Farquharson Knowledge Translation Fellowship from the PSI Foundation. He has received >\$55 million in grant funding from sources such as CIHR, NSERC, and the Canadian Cancer Society. He has published >100 peer-reviewed publications (h-index 33).

He was the Scientific Director of the Ontario COVID-19 Science Advisory Table which informed Ontario's response to the COVID pandemic. He co-authored >40 science and policy briefs that shaped the policy, public health and clinical response to the COVID-19 crisis.

13:30-15:00

Transforming policy to enhance emergency preparedness and response

This session examines how governance, policy, and interdisciplinary research can strengthen health security and preparedness for health emergencies. Speakers will share forward looking insights on ensuring access to essential health supplies, supporting accountable decision-making and strengthening response systems. A shared scenario will then anchor a panel discussion on how governance and practice can align to build more resilient and informed response systems.

Session objectives

- Assess governance and organizational structures that shape preparedness for/response to emergencies
- Identify gaps in access, coordination, transparency, and accountability that limit effective public health emergency responses
- Consider how interdisciplinary evidence and real-time research platforms can support timely, equitable and effective decision-making
- Explore forward-looking strategies to strengthen public health, health equity and health security to prevent emergencies, mitigate their effects, and prepare systems for emerging and future crises



Session 2: Transforming policy to enhance emergency preparedness and response

Presenters



András Tilcsik
Rotman School of
Management

András Tilcsik holds the Canada Research Chair in Strategy, Organizations, and Society at the Rotman School of Management. His research focuses on organizations, occupations, and work, and he is particularly interested in the causes and consequences of inequality in labor markets and the workplace.

His research has appeared in leading academic journals and has informed policy discussions internationally. He is the co-author of *Meltdown* (Penguin Press), an award-winning book on organizational failure in modern systems, and hold a PhD from Harvard University.



Dr. Brian Schwartz
Temerty Faculty of
Medicine

Brian Schwartz is Professor in the Department of Family and Community Medicine and Dalla Lana School of Public Health at the University of Toronto. From 2009 to 2022 he served in senior leadership at Public Health Ontario, including as inaugural Director of Emergency Management Support and later Vice-President, Science and Population Health.

Dr. Schwartz held key scientific advisory roles during Ontario's SARS (2003), H1N1 (2009), and COVID-19 (2020-2022) responses, and previously served as Scientific Advisor to the Ontario Ministry of Health Emergency Management Branch. Before entering public health, he practiced emergency medicine and emergency services leadership for over 30 years. He has published extensively and received numerous honours, including the 2023 University of Toronto President's Impact Awards (on behalf of the Ontario COVID-19 Science Advisory Table).

Session 2: Transforming policy to enhance emergency preparedness and response

Presenters



Quinn Grundy
Lawrence
Bloomberg Faculty
of Nursing

Quinn Grundy PhD RN is Associate Professor in the Lawrence Bloomberg Faculty of Nursing at the University of Toronto. Her research explores the interactions between the medically-related industry, including pharmaceutical and medical device companies, and public health systems and the implications for the delivery of health services, health evidence, and health policies. Prof. Grundy is the author of *Infiltrating Healthcare: How Marketing Works Underground to Influence Nurses* (Johns Hopkins University Press, 2018), which details the first in-depth study of the ways that registered nurses interact with pharmaceutical and medical device company representatives. Prof. Grundy serves as the Director of the WHO Collaborating Centre for Governance, Accountability, and Transparency in the Pharmaceutical Sector, and is cross-appointed to the Leslie Dan Faculty of Pharmacy at the University of Toronto.



Dr. Andrew Pinto
Unity Health

Dr. Andrew Pinto is the founder and director of the Upstream Lab, a research team focused on tackling social determinants, population health management and using data to enable proactive care. He holds the CIHR Applied Public Health Chair in Upstream Prevention. He is a Public Health and Preventive Medicine specialist and family physician at St. Michael's Hospital in downtown Toronto, and an Associate Professor at the University of Toronto. He is the Associate Director for Clinical Research at the University of Toronto Practice-Based Research Network (UTOPIAN) and the lead for artificial intelligence in a new initiative at the Department of Family and Community Medicine on how new technologies will change healthcare.

15:15-16:45

Examining public trust (?) and community resilience during health crises

This session explores how public trust has been strained during recent health crises and focuses on what it means to rebuild that trust through partnership with communities. Short presentations will open the discussion by examining communication gaps, rethinking traditional ideas of expertise and sharing examples of co-developed initiatives in action. A community panel will guide a collaborative dialogue focused on co-designing more equitable, responsive, and trust-driven approaches to future emergencies.

Session objectives

- Identify how trust has eroded with marginalized communities during the COVID-19 pandemic
- Learn from lived experiences on how to communicate and respond to the needs and concerns of marginalized communities
- Discuss how public health and communities can work together to build public trust



Session 3: Examining public trust (?) and community resilience during health crises

Presenters



Brian Baigrie
Faculty of Arts &
Science

Brian Baigrie is Director of Graduate Studies and Associate Professor at The Institute for the History & Philosophy of Science & Technology, and cross-appointed to the Institute for Health Policy, Management & Evaluation at the University of Toronto. His ongoing research is focused on evidential reasoning.



Colin Furness
Faculty of Information

Colin is an infection control epidemiologist, and assistant professor (teaching stream) in the Faculty of Information at the University of Toronto. From the University of Toronto, Colin received degrees in psychology (BSc), Information systems design (MIS), knowledge management (PhD), and epidemiology (MPH).

In public health, Colin worked in industry with a Toronto-based company using geospatial analysis to track infections both in communities and inside buildings. During this time, he led the analysis to develop Ontario's tuberculosis tracking system, working closely with Ontario Public Health, Toronto Public Health, and Peel Public Health to deepen his understanding of disease transmission in populations. Colin also led the design of an integrated hardware and software system to track movement of people and equipment in hospitals to measure infection risk. This work, in Canada and the US, focused on automating contact tracing and measuring risky behaviours by patients, staff, and visitors.



Chavon Niles
Temerty Faculty of
Medicine

Professor Chavon Niles is a Guyanese Canadian researcher, scholar, educator, and advocate dedicated to justice, equity, diversity, and inclusion. She earned her PhD from the Ontario Institute for Studies in Education at the University of Toronto. Prof. Niles is an Assistant Professor in the Department of Physical Therapy, cross-appointed in the Rehabilitation Sciences Institute, Temerty Faculty of Medicine, University of Toronto. Her research focuses on critical disability studies, health equity, and systemic change, exploring the lived experiences of underserved populations. This includes immigrants with disabilities navigating healthcare systems, individuals living with Long COVID, and their experiences of systemic oppression and inequities in access to care.

Session 3: Examining public trust (?) and community resilience during health crises

Presenters



Wendy Porch
Centre for
Independent Living
Toronto (CILT)

Wendy Porch is the Executive Director at CILT. She has been working in the field of accessibility, disability, human rights, and education for over 30 years and is a life-long disability rights advocate. She started her advocacy work at ARCH Disability Law Centre, supporting people with disabilities across Ontario. Before joining CILT, she was the manager of episodic disability initiatives at Realize, a Canadian organization supporting people living with HIV and/or other episodic disabilities. She has an MEd in counselling psychology from the University of Toronto. Wendy is also a proud mom and works to raise awareness of the needs of parents with disabilities.



Tyllin Cordeiro
ASAAP (Alliance for
South Asian AIDS
Prevention)

Tyllin Cordeiro serves as Director of Programs & Initiatives at ASAAP and uses he/him pronouns. He has been with ASAAP for eight years, having joined in 2019 as a Coordinator for the Men's Outreach program, and has since contributed to multiple initiatives across the organization. He brings over 23 years of experience in Human Resources and Learning & Development, and previously operated his own corporate training company for eight years. Following his immigration to Canada, he transitioned into the non-profit sector.

He is deeply committed to his work and is particularly passionate about supporting marginalized newcomers, individuals living with HIV/AIDS, and members of LGBTQ+ communities from SAMEIC backgrounds. He resides in Toronto and is the proud owner of a blonde Labrador named Magnet.



Vaibhav Sawhney
ASAAP (Alliance for
South Asian AIDS
Prevention)

Vaibhav is a PhD student in Health, with a focus on the ethical and equitable use of artificial intelligence in public health. He serves as a Community Engagement and Health Promotion Coordinator at ASAAP (Alliance for South Asian AIDS Prevention). In this role, he works closely with South Asian, Middle Eastern, and Indo-Caribbean LGBTQIA communities, supporting culturally responsive health programming, settlement services, and services for people living with HIV. His research and practice are grounded in a commitment to health equity, community-informed approaches, and data-driven decision-making.

Looking ahead

Our expanded research scope



Public trust & communication
Strengthening public trust through clear, inclusive communication



Health Security
Safeguarding health through preparedness & rapid response




Policy implementation
Turning evidence into action when it matters most

We inform policy, translate research into action, and strengthen preparedness for future health emergencies.



Community & equity
Putting equity at the heart of emergency preparedness and response



Applied intelligence
Harnessing modeling, AI, and engineering to predict, prepare, and protect.



Health systems solutions
Building resilient health systems for a safer future

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If you have examples of impact, funding awards, or research outputs, or are interested in collaborating on impact content, please get in touch at ihep.dlsph@utoronto.ca.

2026 IHEP Symposium



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