



BRITISH COLUMBIA
CENTRE *for* EXCELLENCE
in HIV/AIDS

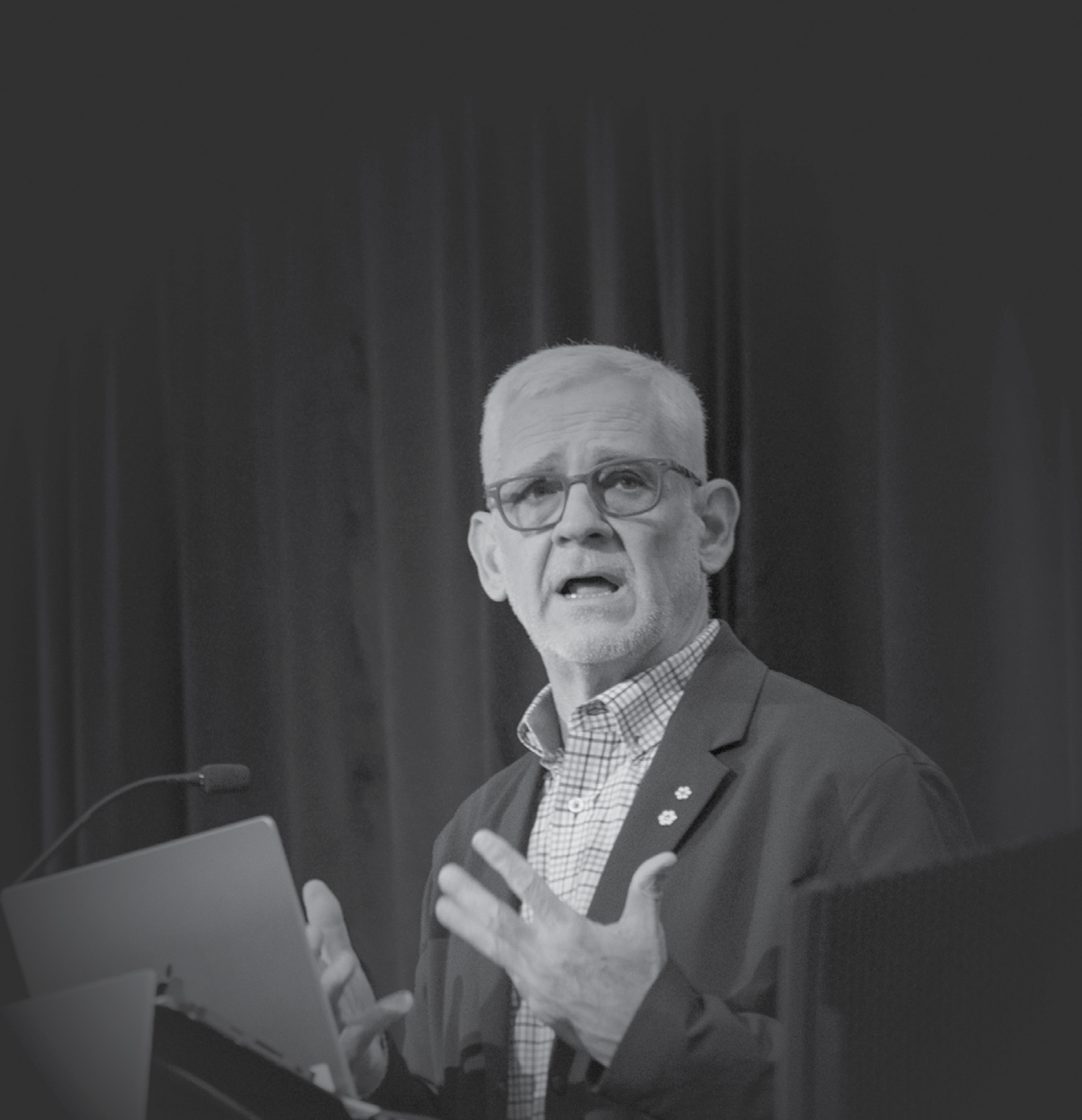


**Providence
Health Care**

BC CENTRE FOR EXCELLENCE IN HIV/AIDS

KEY OUTPUTS, RESEARCH, POLICY & INNOVATION

REPORTING PERIOD 2026 - Q1 | APRIL 1 - JUNE 30



“The bottom line, we have to stop handling this epidemic as if we have local epidemics. We have to recognize that we are in this together. I cannot fix my epidemic, if we don’t fix our collective epidemics. The sooner we do this, the better!”

- DR. JULIO MONTANER speaking to an audience of national HIV experts
at the Canadian Treatment as Prevention Summit on June 11, 2026.

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GRANTS, AWARDS & FUNDING

BC-CfE 2026 QUARTERLY REPORT | Q1

Claudette Cardinal

2026 CBRCanada Honorary Mention for Emerging
Community-Based Researcher

Claudette Cardinal, Dr. Robert Hogg, Dr. Surita Parashar

Partners in knowledge exCHANGE: Building a Community
of Practice for Healing, Harm Reduction, and Healthcare
Training in Substance Use & HIV

Canadian Institutes of Health Research HIV Catalyst Grant:
Partnering for Impact - Strategy for Patient-Oriented Research
\$124,655

Dr. Aki Gormezano

New Investigator Award - Epidemiology & Public Health
Canadian Association for HIV Research

Sarah Kelly

PHC Knowledge Translation Challenge
Planning for practice change: Empowering nurses to
implement evidence-based leg ulcer care

Dr. Surita Parashar

Excellence in Community-Based Research Award
Canadian Association for HIV Research

SISCO Study

Michael Smith Research BC Engage Award
Co-Creating Impact: A Multi-Regional Planning Session for
Strengthening and Aligning Research & Operational Support
for Harm Reduction
\$5,000

Hanwei Sudderuddin

Graduate Research Scholarship (Doctoral Program)
Canadian Institutes of Health Research

Anh Khoa Vo

Michael Smith Research BC Engage Award
EngAGING with HIV and Chronic Pain: Centering Lived
Experience to Inform Future Research
\$5,000



PRESENTATIONS & EDUCATIONAL SESSIONS

PRESENTATIONS & EDUCATIONAL SESSIONS

BC-CfE Journal Clubs

Oral HIV Pre-Exposure Prophylaxis (PrEP)

Dosing Strategies

Raquel Espinoza

April 9, 2026

Cognition, Frailty, & Mortality in People Aging with HIV & Injection Drug Use

Hanwei Sudderuddin

May 14, 2026

HIV/AIDS Webinar Learning Series

The Positive Brain Health Now Study, 10 Years Later: What we Learned and our Legacy for People Living with HIV

Dr. Marie-Josée Brouillette

April 29, 2026

Psychosis vs Schizophrenia - A Treatment Conundrum

Dr. Harish Neelakent

May 6, 2026

Drug Interactions in the Treatment and Prevention of HIV & Bacterial STIs

Erin Ready

November 19, 2025

BC-CfE Hope to Health Learning Series

Menopause in Primary Care: Core Concepts and Equity Considerations

Dr. Alana Hirsh

April 30, 2026

Benzodiazepines and the Toxic Drug Supply

Dr. Rupri Brar

May 28, 2026

PRESENTATIONS & EDUCATIONAL SESSIONS

PRESENTATIONS & EDUCATIONAL SESSIONS

TB Through the Inner-City Lens - Why? Who? How?

Dr. William Connors

June 23, 2026

Special Lecture

Nonsuppressible Viremia During ART: A Case Series Discussion

Drs. Lisa Frenkel & Zabrina Brumme

April 15, 2026

BC-CfE Update

BC-CfE Spring 2026 Update: Focus on HIV

June 12, 2026

Moderators:

Drs. Val Montessori, Robert Hogg, and Chanson Brumme

Presenters:

Dr. Mark Hull, Kevin Fung, Raquel Espinoza, Rosie Murphy, Dr. Victor Leung, Dr. Viviane Dias Lima, Dr. Zabrina Brumme and Dr. Julio Montaner

Round Table Panellists:

Anoop Gill, J. Evin Jones and Dylan Wall

External Presentations

Canadian Treatment as Prevention Summit

June 11-12, 2026

Treatment as Prevention: The key to control HIV/AIDS & beyond

Dr. Julio Montaner

Provincial monitoring to national insight: phylogenetics and HIV transmission in Canada
Dr. Jeffrey Joy

Progress (and obstacles) towards eliminating HCV as a public health threat
Dr. Kate Salters

Doxycycline for the prevention of bacterial STI's: An update on the BC-CfE initiative
Dr. Junine Toy

Rethinking PrEP as the epidemic evolves
Dr. Viviane Dias Lima

35th Canadian Conference on HIV/AIDS Research (CAHR 2026)
April 23-26, 2026

Pre-Conference Workshops
Administrative Health Data in Population Health Research: Methods, Applications & Impact
Dr. Viviane Dias Lima, Scott Emerson, Paul Sereda, Richard Anderson, Esther Copp, Ly Nguyen, Felipe Duailibe, Surita Parashar, Kathleen Inglis, and Miriam Muirhead

Responding to Changing Global HIV Policies by Developing a Canadian HIV Strategy through a Co-Design Workshop
Dr. Robert Hogg

CanCURE Community Conversations on HIV Cure: What We Know, What We Don't, and What's Next
Dr. Zabrina Brumme

Oral Presentations
Living with HIV is Associated with Concurrent Sexualized Substance Use and Condomless Anal Sex Among Gay, Bisexual, and Other Men Who Have Sex with Men
Santiago Mijares Aguilera

The Impact of HIV polymorphism on the Intact Proviral DNA Assay (IPDA)
Maggie Duncan

Bacterial STI Incidence and Predictors by Ethnoracial Group Among Gay, Bisexual, and Other Men Who Have Sex with Men (GBM) in Toronto, Vancouver, and Montreal
Dr. Aki Gormezano

CTN+ Post-doctoral Fellow Symposium: Applying a community-based approach to administrative health data research: Tensions and transformations
Dr. Kathleen Inglis

Exposure to ritonavir or cobicistat and association with fatal opioid overdose among people with HIV who use(d) drugs
Dr. Katherine Kooij

Testing Practices, Facilitators, and Barriers to STBBI Screening Among Clients of a Supervised Consumption Site in Vancouver, BC
Nandini Krishnan & Douglas Vickers

Unsuppressed HIV viral load among GBM living with HIV in Vancouver, Toronto and Montreal: 2017–2022
Dr. David Moore

Barriers to HIV PrEP Uptake Among People Who Use Drugs in Vancouver - Applying Population Attributable Fractions to Quantify Importance
Monica Rudd (on behalf of BC-CfE co-authors)

Hepatitis C (HCV) Viremia in HIV Treatment and HIV Pre-Exposure Prophylaxis (PrEP) Clients in British Columbia (BC), Canada: A Pilot Quality Improvement Initiative
Shinta Thio

Hepatitis C (HCV) Screening and Clearance Cascade in HIV Treatment and HIV Pre-Exposure Prophylaxis (PrEP) Programs in British Columbia (BC), Canada
Shinta Thio

Beyond Clinical Markers: How Structural Vulnerability Impacts Survival among People Living With HIV in British Columbia
Anh Khoa Vo

Poster Presentations

Living with HIV is Associated with Concurrent Sexualized Substance Use and Condomless Anal Sex Among Gay, Bisexual, and Other Men Who Have Sex with Men
Santiago Mijares Aguilera

Changes in Self-Reported Housing Stability Among a Cohort of People Living with HIV in British Columbia Canada
Farnaz Azarmju

Characterizing current health priorities among a cohort of people living with HIV across British Columbia Canada: 2024-2025
Farnaz Azarmju

Archival proviruses from early HIV infection can fuel viral rebound and nonsuppressible viremia during ART: A Case Study
Evan Barad

Prolonged HIV DNAemia Caused by a Massively-expanded CD4+ T-cell Clone Harboring a Genetically Defective Provirus: A Case Report
Evan Barad

The Canadian Alliance for Transplant-related Cures in HIV (CATCH): a pan-Canada network for monitoring HIV cure following allogeneic hematopoietic stem cell transplantation
Dr. Zabrina Brumme

Influence of Sex and HIV on Acute Complications During Nonfatal Overdose Hospitalizations in British Columbia
Michael Budu

Inflammatory Consequences of Persistent Low-Level Viremia During HIV Therapy: Insights from a Longitudinal Cohort
Amanda Cabral da Silva

Molecular characterization of gut HIV reservoirs in living donors: a proof-of-concept study
Amanda Cabral da Silva

IndigenEyes: An Ethnographic, Land Based, and Arts-Guided Journey of Healing with a Cree Woman Living with HIV
Claudette Cardinal

Access to PrEP at first attempt among gay, bisexual and other men who have sex with men [GBM] is associated with health service type in two Canadian Provinces
Jonathan Easey (on behalf of BC-CfE co-authors)

Perceived HIV Risk and PrEP Acceptability Among People Who Use Drugs in Vancouver BC
Joaquin Gomez de la Torre

How Nonfatal Opioid Overdoses are Defined in Research Using Administrative Data within the United States and Canada: A Scoping Review
Silke Hansen

The impact of COVID-19 on Non-Fatal Overdose Among People Living With and Without HIV in British Columbia: Identified Community Needs
Silke Hansen

Use of HIV support and community services and perceived impacts among a cohort of people living with HIV in British Columbia, Canada

Antonio Marante & Tim Wesseling

The HIV & Eng/aging Project: How HIV Impacts Recurrent Cardiovascular Events in a Population-Based Cohort in British Columbia

Miriam Muirhead

Sex differences in longer term HIV treatment outcomes and healthcare utilization following a non-fatal overdose among people living with HIV

Nicholas Naidu

The Impact of the Unregulated Drug Toxicity Crisis and COVID-19 Pandemic on Cause-Specific Mortality Ascertainment for People with HIV in British Columbia

Ly Nguyen

Co-Developing Approaches to working with Administrative Data alongside Peer Researchers to Identify and Understand Nonfatal Drug Poisonings Among People Living with HIV in British Columbia

Dr. Surita Parashar

Talking Circles as a methodology: Reflections from a strengths-led study on Indigenous experiences and insights on HIV care pathways

Nicole Peigan & Katie Timms

Operational Success, Analytical Challenge: A Methodological Framework and Profile of British Columbia's Status-Neutral HIV Treatment and Prevention Cohort

Paul Sereda

Inter-individual variability in the preservation of historical HIV drug resistance across intact and defective proviruses

Aniqa Shahid

Sexual Activity and Satisfaction of Older Adults Living with HIV- Data from the CHANGE HIV Cohort

Dr. Sharon Walmsley (on behalf of BC-CfE co-authors)

Other Presentations

The Canadian Alliance for transplant-related Cures in HIV (CATCH): a new pan-Canada network for monitoring HIV cure following stem cell transplantation

CanCURE community conversations on HIV Cure

Dr. Zabrina Brumme

April 23, 2026

Providence in the Park

Providence Health Care Community Event
Alannah Hannigan, Muskan Jaswal, Sarah Kelly and Douglas Vickers

May 7, 2026

Suppression and fragmentation of HIV transmission following scale-up of TasP and PrEP in British Columbia, Canada: a population level phylogenetic study

33rd International Dynamics & Evolution of Human Viruses Conference

Dr. Jeffrey Joy

May 19, 2026

Mutational tolerance of antigenic sites differentiates viruses with durable and unstable vaccines

33rd International Dynamics & Evolution of Human Viruses Conference

Vincent Montoya

May 19, 2026

Functional genomic analysis reveals mechanisms of epigenetic interference in SARS-CoV-1 and SARS-CoV-2

33rd International Dynamics & Evolution of Human Viruses Conference

Dr. Amber Paulson

May 19, 2026

**Non-suppressible HIV viremia sustained by
clonally expanded CD4+ T-cells harboring
a genomically defective provirus with an
immune-evasive protein expression profile**

Canadian Society of Virology CSV 2026

Dr. Harrison Omondi

May 31, 2026

**HIV reservoir and plasma rebound dynamics
in context of HIV superinfection**

Canadian Society of Virology CSV 2026

Dr. Harrison Omondi

May 31, 2026

**The lung health impacts of unregulated
inhalational substance use**

Poster presentation at UBC Department of
Medicine Research Day

Dr. Brooke Cheng

June 10, 2026

PEER-REVIEWED JOURNAL ARTICLES & BOOK PUBLICATIONS

PUBLICATIONS

1: Omondi FH, Sang Y, Dong W, Mwimanzi F, Cheung PK, Barad E, Derza Z, Anderson K, Shahid A, Mysak V, Lima VD, Hull M, Brumme CJ, Harris M, Montaner JSG, Guillemi S, Brockman MA, Brumme ZL. Non-suppressible HIV viremia sustained by clonally expanded CD4+ T cells harboring a genomically defective provirus with an immune-evasive protein expression profile. *mBio*. 2026 May 13;17(5):e0390925. doi: 10.1128/mbio.03909-25. Epub 2026 Mar 30. PMID: 41910264; PMCID: PMC13170330.

2: Lambert G, Fourmigue A, Dvorakova M, Moodie EEM, Moore D, Lachowsky NJ, Grace D, Hart TA, Tan DHS, Jollimore J, Labbé AC, Fortin C, Maheu-Giroux M, Hull M, Grennan T, Brunelle-Newman S, Zhang T, Lal A, Gormezano A, Cox J. Incidence and risk factors of *C. trachomatis*, *N. gonorrhoeae* and syphilis among a cohort of urban Canadian gay, bisexual and other men who have sex with men, 2017-2023: informing the potential impact of doxycycline prophylaxis. *BMJ Open*. 2026 May 26;16(5):e111357. doi: 10.1136/bmjopen-2025-111357. PMID: 42191194; PMCID: PMC13218160.

3: Li A, Zhao Y, Emerson SD, McGrail K, Peterson S, Tremlett H. Data resource profile: PharmaNet, the database for prescription drug dispensing in British Columbia, Canada. *Int J Popul Data Sci*. 2026 Jun 18;8(6):3375. doi: 10.23889/ijpds.v8i6.3375. PMID: 42326869; PMCID: PMC13277820.

4: Naidu N, Golzar N, Emerson SD, Budu MO, Hansen S, Branion-Calles M, McLinden

PUBLICATIONS

T, Hogg RS, Kooij KW. Area-based measures of socioeconomic status in studies assessing health outcomes among people living with HIV in Canada and the USA: a scoping review. *BMJ Open*. 2026 Jun 4;16(6):e110285. doi:10.1136/bmjopen-2025-110285. PMID: 42242735; PMCID: PMC13239372.

5: Kooij KW, Trevorrow R, Muirhead M, Ding E, Tam C, Marziali ME, Budu MO, Cunningham NE, Cardinal C, Emerson SD, Salters KA, Montaner JSG, Hogg RS. Leaving the emergency department before treatment completion among people with and without HIV with a suspected overdose in British Columbia, Canada. *AIDS Care*. 2026 Apr;38(4):752-764. doi: 10.1080/09540121.2025.2611068. Epub 2026 Jan 14. PMID: 41532772.

6: Guo M, Budu M, Trigg J, Shen T, Hogg R, Wiseman SM. Patients living with HIV in the modern era: Postoperative outcomes and healthcare utilization. *Am J Surg*. 2026 Jun;256:116918. doi: 10.1016/j.amjsurg.2026.116918. Epub 2026 Mar 6. PMID: 41819761.

7: Lima VD, Mokhtari Jazi A, Montaner JSG. Evolution and forecasting of antiretroviral therapy utilisation in British Columbia: a population-level analysis of provincial drug treatment programme data, 2014-2024. *BMJ Open*. 2026 Apr 29;16(4):e110123. doi: 10.1136/bmjopen-2025-110123. PMID: 42055616; PMCID: PMC13141190.

8: Thompson KA, Clifford-Rashotte M, Zhang W, Kao D, Trigg J, Toy J, Guillemi S, Lima V, Barrios R, Montaner J, Hull M. Successful Scale-up of Syphilis Testing Linked to Routine HIV Viral Load Monitoring in British Columbia. *Open Forum Infect Dis*. 2026 May 8;13(5):ofag269. doi: 10.1093/ofid/ofag269. PMID: 42182846; PMCID: PMC13192352.

9: Leach M, Marziali ME, Parashar S, Bondy G, Guillemi S, Harris M, Hull M, Stone S, Kooij KW, Hogg RS, Montaner JSG. A rapid review of the effects of GLP-1 receptor agonists on opioid and stimulant use-related outcomes. *Drug Alcohol Depend Rep*. 2026 Apr 24;19:100440. doi: 10.1016/j.dadr.2026.100440. PMID: 42111969; PMCID: PMC13156756.

10: Jones BR, Brumme ZL, Hunter E, Joy JB. Getting to the root of HIV transmitted founder virus sequences. *Virus Evol*. 2026 Apr 20;12(1):veag025. doi: 10.1093/ve/veag025. PMID: 42110881; PMCID: PMC13155111.

11: Pakhomova TE, Parry R, Wesseling T, Moore DM, Cardinal C, Dawydiuk N, Nicholson V, Tam C, Parashar S, Hogg R, Barrios R, Montaner JSG, Salters K. Healthcare Provider Strategies and Approaches to Supporting People Living With HIV Who Are Experiencing HIV Treatment Disengagement in British Columbia, Canada. *Qual Health Res*. 2026 May;36(6):630-644. doi: 10.1177/10497323251318218. Epub 2025 Apr 1. PMID: 40170323.

12: Gupta AK, Ablona A, Consolacion TB, Bartlett S, Beck S, Burchell AN, Darvishian M, Alvarez MJ, Yu A, Wong S, Woods RR, Bhatti P, Salters K, Wong J, Gilbert M, Krajden M, Janjua N, Grennan T. Trends in the Incidence of HPV-Associated Anal Cancer by Risk Group, 1990-2019: A Population-Based Cohort Study in British Columbia, Canada. *Cancer Epidemiol Biomarkers Prev*. 2026 Apr 1;35(4):604-609. doi: 10.1158/1055-9965.EPI-25-0890. PMID: 41575736.

13: Young J, Wang S, Knight M, Cardinal CL, Cooper CL, Cox J, Hull M, Martel-Laferriere V, Sutherland DJ, Walmsley S, Wong A, Klein MB; Canadian Coinfection Cohort. The risk of HIV and HCV transmission in Canadians living with coinfection before, during, and after the COVID pandemic: A prospective cohort study. *Can J Public Health*. 2026 Apr 10. doi: 10.17269/s41997-026-01193-y. Epub ahead of print. PMID: 41961426.

14: Azar P, Li VW, Wong JSH, Nikoo M, Machado J, Ignaszewski MJ, Mathew N, Raheemullah A, Wakeman SE, Mullen R, Krausz RM, Montaner JSG, Maharaj AR. 24-Hour Induction of Transdermal Buprenorphine to Buprenorphine Extended-Release. *J Psychoactive Drugs*. 2026 Apr-Jun;58(2):166-170. doi: 10.1080/02791072.2024.2430616. Epub 2024 Nov 19. PMID: 39560320.

15: Nicolls S, McClymont E, Lee M, Coutlée F, Trottier S, Smaill F, Loutfy M, Yudin MH, Klein MB, Harris M, Stone S, Martinez-Cajas J, Walmsley S, Money D; HPV in HIV Study Team. Incidence and Prevalence of Human Papillomavirus Infection to Predict Outcomes from HPV-Based Cervical Cancer Screening in Women and People with a Cervix Living with HIV. *J Acquir Immune Defic Syndr*. 2026 Jun 5. doi: 10.1097/QAI.0000000000003902. Epub ahead of print. PMID: 42285107.

16: Pekar JE, Gangavarapu K, Crespo-Bellido A, Peacock TP, Wertheim JO, Dudas G, Joy JB, Chand M, Débarre F, Gangavarapu P, Goldhill DH, Groves N, Ji X, Serrano LM, Moncla L, Rasmussen AL, Ruis C, Venkatesh D, Kraemer MUG, Pybus OG, Andersen KG, Suchard MA, Nelson MI, Lemey P, Worobey M, Rambaut A. The emergence and molecular evolution of H5N1 influenza viruses in United States dairy cattle. *bioRxiv* [Preprint]. 2026 Apr 1:2026.03.30.713641. doi: 10.64898/2026.03.30.713641. PMID: 41959054; PMCID: PMC13060070.

17: Gormezano A, Adams A, Wang L, Trigg J, Budu M, Hogg RS, Aguilera-Mijares S, Hull M, Barath J, Sereda P, Lal A, Cox J, Hart TA, Grace D, Tan DHS, Lachowsky NJ, Moore DM. Substance Use and Incidence of Psychosis Diagnoses Among Gay, Bisexual, and Other Men Who Have Sex with Men Compared with Males from the General Population: A Matched Cohort Study from Metro Vancouver, Canada. *Subst Use Misuse*. 2026 Jun 11:1-12. doi: 10.1080/10826084.2026.2682299. Epub ahead of print. PMID: 42276816; PMCID: PMC13435960.

18: Aguilera-Mijares S, Wang L, Trigg J, Hogg RS, Lachowsky N, Gormezano A, Sereda P, Card K, Oviedo-Joekes E, Emerson SD, Lal A, Budu M, Hart TA, Cox J, Grace D, Tan DHS, Moore DM. Substance use disorders and related hospitalizations and mortality among gay, bisexual, and other men who have sex with men: A matched cohort study. *Drug Alcohol Depend*. 2026 Jun 1;283:113159. doi: 10.1016/j.drugalcdep.2026.113159. Epub 2026 Apr 9. PMID: 41980572.

19: Marziali ME, Inglis K, Frank P, Campbell W, Lambert S, Magagula P, Nicholson V, Budu M, Murray MCM, Guillemi S, Worthington C, Hogg RS. Who is the expert? A process guide to incorporate lived/living experience into directed acyclic graphs: an applied example from HIV research. *J Epidemiol Community Health*. 2026 Apr 22:jech-2025-224787. doi: 10.1136/jech-2025-224787. Epub ahead of print. PMID: 42020304.

20: Bratu A, Sharma A, Closson K, Gislason M, Hogg RS, Logie CH, Marshall C, Martin G, Takaro TK, Wise M, Card KG. Socio-demographic disparities in climate change anxiety among British Columbians impacted by successive extreme weather events. *J Clim Chang Health*. 2026 May 28;29:100641. doi: 10.1016/j.joclim.2025.100641. PMID: 42257106; PMCID: PMC13241739.

PrEP Semi-Annual Report

Fourth Quarter 2025

Drug Treatment Program Monthly Report

April 2025 (release April 2026)

May 2025 (release April 2026)

June 2025 (release April 2026)

July 2025 (release June 2026)

August 2025 (release June 2026)

September 2025 (release June 2026)



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**Providence
Health Care**



Ministry of
Health



northern health
the northern way of caring



First Nations Health Authority
Health through wellness



Interior Health



**Provincial Health
Services Authority**
Province-wide solutions.
Better health.



fraserhealth



**Vancouver
CoastalHealth**
Promoting wellness. Ensuring care.



island health