



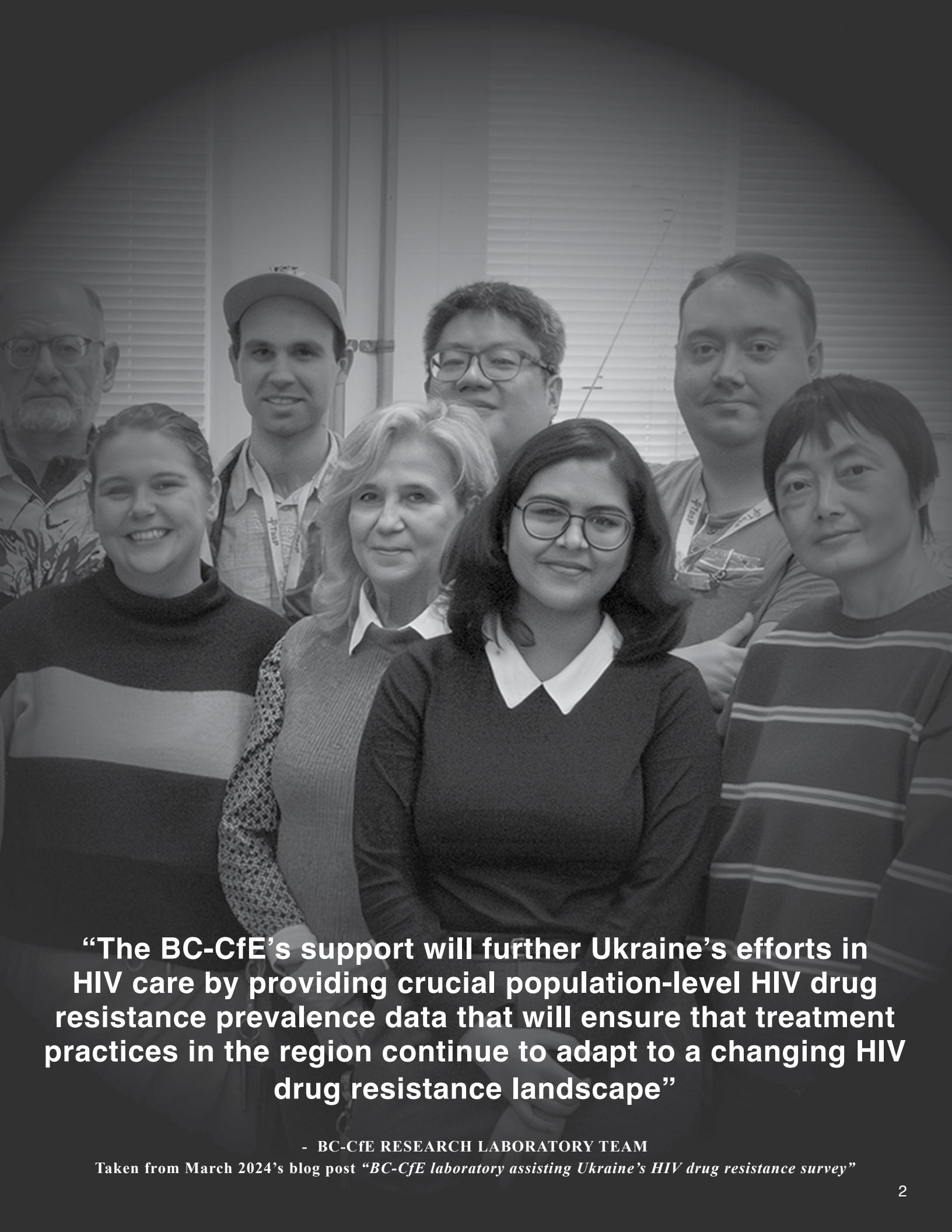
BRITISH COLUMBIA  
CENTRE *for* EXCELLENCE  
*in* HIV/AIDS



Providence  
Health Care

# BC CENTRE FOR EXCELLENCE IN HIV/AIDS

KEY OUTPUTS, RESEARCH, POLICY & INNOVATION



**“The BC-CfE’s support will further Ukraine’s efforts in HIV care by providing crucial population-level HIV drug resistance prevalence data that will ensure that treatment practices in the region continue to adapt to a changing HIV drug resistance landscape”**

- BC-CfE RESEARCH LABORATORY TEAM

Taken from March 2024's blog post "*BC-CfE laboratory assisting Ukraine's HIV drug resistance survey*"

# TABLE OF CONTENTS

BC-CfE 2023 QUARTERLY REPORT | Q4

---



<b>Grants, Awards &amp; Funding</b>	<b>4</b>
<b>Presentations &amp; Educational Sessions</b>	<b>5</b>
<b>Peer-reviewed Journal Articles &amp;</b>	<b>8</b>
<b>Book Publications</b>	
<b>Reports, Guidelines &amp; Policy Updates</b>	<b>11</b>

# GRANTS, AWARDS & FUNDING



BC-CfE 2023 QUARTERLY REPORT | Q4

## Angela McLaughlin

New Investigator Travel Scholarship

## Angela McLaughlin

UBC Bioinformatics BIG Research Day Conference  
poster competition - 3rd place award

## Dr. Jeffrey Joy

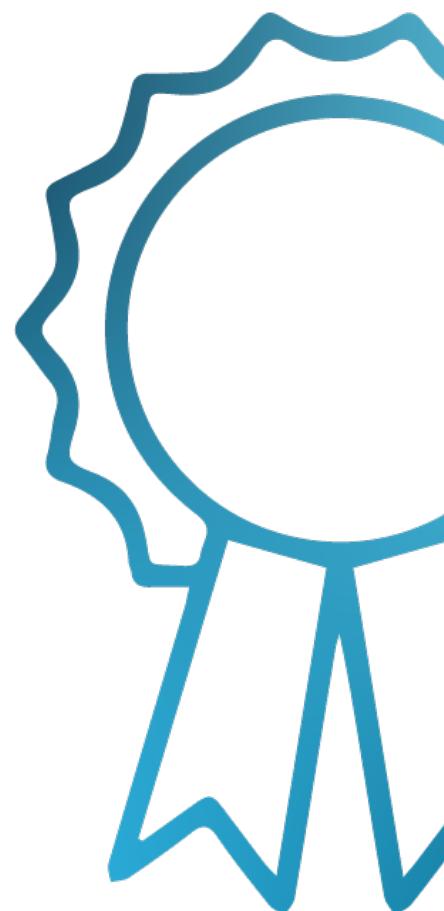
CIHR Operating Grant  
\$30,000

## Drs. Kate Salters, Rolando Barrios and Julio Montaner

CIHR Research Grant - Fall 2023

*Innovation in health services in response to a rapidly changing illicit drug toxicity crisis in BC: Investigating the role of supervised inhalation sites and novel harm reduction interventions*

\$1,021,276 over four years



# PRESENTATIONS & EDUCATIONAL SESSIONS

## BC-CfE Journal Clubs

### **Leveraging routinely-collected healthcare records to support research and evaluation**

Scott Emerson

January 25, 2024

### **Implementing community-based Dried Blood Spot (DBS) testing for HIV and hepatitis C**

Alannah Hannigan

February 15, 2024

### **Nonsuppressible HIV viremia despite adherence to optimal ART in PLWH**

Harrison Omondi

March 14, 2024

## HIV/AIDS Webinar Learning Series

### **HIV in Primary Care – Case Panel**

Drs. Silvia Guillemi, Zabrina Brumme, Mark Hull & Sarah Stone

January 24, 2024

### **Antiretrovirals and Drug Interactions**

Erin Ready

February 28, 2024

### **Complexities of People Living with HIV, Aging and Requiring Long Term Care**

Kristie Clark & Martin Payne

March 20, 2024

## BC-CfE Hope to Health Learning Series

### **Motivational Interviewing – Part 1**

Dr. Heather Fulton

January 17, 2024

## **Motivational Interviewing – Part 2**

Dr. Heather Fulton

February 14, 2024

### **Congestive Heart Failure in People who Inject Drugs**

Dr. Simone Cowan & Cindy Nordquist

March 13, 2024

## External Presentations

### **31st Conference on Retroviruses and Opportunistic Infections (CROI) - Denver, Colorado (March 3-6, 2024)**

### **Clinical Profiles Predicting Cognitive Decline Over 10 Years Among Older Adults With HIV in Canada**

Poster authors: Brouillette M-J, Harris M, Smith G, Thomas R, Haider S, Letendre S, Fellows LK, Mayo NE

### **Older Adults Living With HIV Have Low Expectations Regarding Aging, Despite Improved Survival**

Poster authors: Zhabokritsky A, Tan DH, Harris M, Smith G, Falutz J, Andany N, Guillemi S, Arbess G, Loutfy M, Rosenes R, Walmsley S

### **Syphilis Screening and Incident Infection Rates in HIV Treatment and HIV PrEP Programs in BC, Canada**

Poster authors: Toy J, Sereda P, Espinoza R, Ready E, Lima V, Salters K, Phillips P, Barrios R, Montaner J

### **Real-World Utilization of HIV PrEP Medication in a Population-Level PrEP Program in BC, Canada**

Poster authors: Toy J, Espinoza R, Trigg J, Shen T, Sereda P, Ready E, Lima V, Barrios R, Montaner J

## HIV Integration Site Features Associated With Persistence of Infected Cells Under CD8 Pressure

Poster authors: Linden N, McFarland A, Danesh A, Everett J, Sherrill-Mix S, Lee C, Brumme C, Copertino D, Brumme Z, Miller I, Huynh T, Roche A, Weiler J, Bushman F, Jones R

## HIV cases averted in phylogenetic clusters via pre-exposure prophylaxis in British Columbia, Canada

Poster authors: McLaughlin A, Toy J, Sereda P, Trigg J, Montoya V, Liang R, Beelen C, Tang T, LaBerge A, Brumme C, Barrios R, Montaner J, Joy J

## Mind the Gap: Life Expectancy and Mortality in Males & Females with HIV in British Columbia, Canada

Poster authors: Kooij K, Zhang W, Trigg J, Cunningham N, Budu M, Lima V, Salters K, Barrios R, Montaner J, Hogg R

## 26th International Workshop on HIV and Hepatitis Observational Databases - Vilamoura, Portugal (March 21-23, 2024)

## Impact of screening and doxycycline prevention on the syphilis epidemic among men who have sex with men in British Columbia: a mathematical modelling study

Poster authors: Takeh B, Zhu J, David J, Sang J, Moore D, Hull M, Grennan T, Wong J, Montaner J, Lima V

## Development and Validation of a Mortality Risk Prediction Index Score for Adults Living with HIV and Multiple Chronic Comorbidities

Poster authors: Takeh B, Faught N, Nathani H, Zhu J, Emerson S, Dolguikh K, Trigg J, Salters K, Barrios R, Montaner J, Lima V

## Other Presentations

### Molecular epidemiology of HIV in BC: quarterly phylogenetic monitoring update

BC Phylogenetic Monitoring Committee  
Dr Jeffrey Joy  
January 25, 2024

### Molecular epidemiology and antimicrobial resistance monitoring for bSTI in British Columbia

Syphilis Outbreak Response Committee  
Dr Jeffrey Joy  
February 15, 2024

### Phylogenetic monitoring of HIV in Nova Scotia and beyond

Presentation to Nova Scotia Public Health  
Dr Jeffrey Joy  
March 12, 2024

### Canadian phylogenetic monitoring initiative and Ontario implementation

Syphilis Outbreak Response Committee  
Dr Jeffrey Joy  
March 13, 2024

### Molecular epidemiology and phylogenetic monitoring for HIV in Saskatchewan quarterly update

Saskatchewan Phylogenetic Monitoring Initiative  
Dr. Jeffrey Joy  
March 14, 2024

### HLA adaptation of 2023 AIDS cases in Saskatchewan

Presentation to Saskatchewan Public Health  
Dr. Jeffrey Joy  
March 19, 2024

**HIV cases averted in phylogenetic clusters  
via pre-exposure prophylaxis in British  
Columbia, Canada**

Big24 Conference, University of British Columbia

Poster authors: McLaughlin A, Toy J,  
Sereda P, Trigg J, Montoya V, Liang R,  
Beelen C, Tang T, LaBerge A, Brumme C,  
Barrios R, Montaner J, Joy J

March 21, 2024

**Ending the HIV/AIDS epidemic; the experience  
in British Columbia.**

Universidad FASTA

Dr. Julio Montaner

March 26, 2024

# PEER-REVIEWED JOURNAL ARTICLES & BOOK PUBLICATIONS

PUBLICATIONS

PUBLICATIONS

1: Althoff KN, Stewart C, Humes E, Gerace L, Boyd C, Gebo K, Justice AC, Hyle EP, Coburn SB, Lang R, Silverberg MJ, Horberg MA, Lima VD, Gill MJ, Karris M, Rebeiro PF, Thorne J, Rich AJ, Crane H, Kitahata M, Rubtsova A, Wong C, Leng S, Marconi VC, D'Souza G, Kim HN, Napravnik S, McGinnis K, Kirk GD, Sterling TR, Moore RD, Kasaie P. The forecasted prevalence of comorbidities and multimorbidity in people with HIV in the United States through the year 2030: A modeling study. *PLoS Med.* 2024 Jan 12;21(1):e1004325. doi: 10.1371/journal.pmed.1004325. PMID: 38215160; PMCID: PMC10833859.

2: Tam C, Wang L, Salters K, Moore D, Wesseling T, Grieve S, Parry R, Barath J, Hogg R, Barrios R. Evaluating experiences of HIV-related stigma among people living with HIV diagnosed in different treatment eras in British Columbia, Canada. *AIDS Care.* 2024 Feb;36(2):238-247. doi: 10.1080/09540121.2023.2277150. Epub 2024 Jan 30. PMID: 37963415.

3: Pakhomova TE, Tam C, Wang L, Salters K, Moore DM, Barath J, Elterman S, Dawydiuk N, Wesseling T, Grieve S, Sereda P, Hogg R, Barrios R. Depressive Symptoms, the Impact on ART Continuation, and Factors Associated with Symptom Improvement Among a Cohort of People Living with HIV in British Columbia, Canada. *AIDS Behav.* 2024 Jan;28(1):43-58. doi: 10.1007/s10461-023-04156-3. Epub 2023 Aug 26. PMID: 37632606.

4: Horvath RM, Brumme ZL, Sadowski I.

Small molecule inhibitors of transcriptional cyclin-dependent kinases impose HIV-1 latency, presenting “block and lock” treatment strategies. *Antimicrob Agents Chemother.* 2024 Mar 6;68(3):e0107223. doi: 10.1128/aac.01072-23. Epub 2024 Feb 6. PMID: 38319085; PMCID: PMC10923280.

5: Lepik KJ, Hunt OL, Bacani N, Wang L, Harris M, Toy J, McLinden T, Sereda P, Akagi LJ, Ready E, Montaner JS, Barrios R. Adverse drug reactions attributed to generic substitution of antiretroviral medications among HIV treatment and pre-exposure prophylaxis clients in British Columbia, Canada. *Antivir Ther.* 2024 Feb;29(1):13596535241233128. doi: 10.1177/13596535241233128. PMID: 38375582.

6: Yazdani K, Dhillon N, Tung A, Ye M, Trigg J, Stanley C, Ni Gusti Ayu N, McLinden T, Lima VD, Barrios R, Hogg R, Montaner JSG, Salters K. Dynamics of overdose and non-overdose mortality among people living with HIV amidst the illicit drug toxicity crisis in British Columbia. *AIDS Care.* 2024 Feb;36(2):263-271. doi: 10.1080/09540121.2023.2195605. Epub 2023 Apr 24. PMID: 37094365.

7: McKay KA, Wijnands JMA, Manouchehrinia A, Zhu F, Sereda P, Li J, Ye M, Trigg J, Kooij K, Ekström AM, Gißlén M, Hillert J, Hogg RS, Tremlett H, Kingwell E. Risk of Multiple Sclerosis in People Living with HIV: An International Cohort Study. *Ann Neurol.* 2024 Mar;95(3):487-494. doi: 10.1002/ana.26840.

- Epub 2023 Dec 14. PMID: 38098141.
- 8: Duncan MC, Omondi FH, Kinloch NN, Lapointe HR, Speckmaier S, Moran-Garcia N, Lawson T, DeMarco ML, Simons J, Holmes DT, Lowe CF, Bacani N, Sereda P, Barrios R, Harris M, Romney MG, Montaner JSG, Brumme CJ, Brockman MA, Brumme ZL. Effects of COVID-19 mRNA vaccination on HIV viremia and reservoir size. *AIDS*. 2024 Jan 15. doi: 10.1097/QAD.0000000000003841. Epub ahead of print. PMID: 38224350.
- 9: Shahid A, MacLennan S, Jones BR, Suderuddin H, Dang Z, Cobarrubias K, Duncan MC, Kinloch NN, Dapp MJ, Archin NM, Fischl MA, Ofotokun I, Adimora A, Gange S, Aouizerat B, Kuniholm MH, Kassaye S, Mullins JI, Goldstein H, Joy JB, Anastos K, Brumme ZL; MACS/WIHS combined cohort study (MWCSS). The replication-competent HIV reservoir is a genetically restricted, younger subset of the overall pool of HIV proviruses persisting during therapy, which is highly genetically stable over time. *J Virol*. 2024 Feb 20;98(2):e0165523. doi: 10.1128/jvi.01655-23. Epub 2024 Jan 12. PMID: 38214547; PMCID: PMC10878278.
- 10: Marbaniang I, Moodie EEM, Latimer E, Skakoon-Sparling S, Hart TA, Grace D, Moore DM, Lachowsky NJ, Jollimore J, Lambert G, Zhang T, Dvorakova M, Cox J; Engage Team Members. Using an intersectionality-based approach to evaluate mental health services use among gay, bisexual and other men who have sex with men in Montreal, Toronto and Vancouver. *Epidemiol Psychiatr Sci*. 2024 Mar 5;33:e10. doi: 10.1017/S2045796024000143. PMID: 38438301; PMCID: PMC10940056.
- 11: Ng M, Carrieri PM, Awendila L, Socías ME, Knight R, Ti L. Hepatitis C Virus Infection and Hospital-Related Outcomes: A Systematic Review. *Can J Gastroenterol Hepatol*. 2024 Mar 7;2024:3325609. doi:

- 10.1155/2024/3325609. PMID: 38487594; PMCID: PMC10940031.
- 12: Zhabokritsky A, Klein M, Loutfy M, Guaraldi G, Andany N, Guillemi S, Falutz J, Arbess G, Tan DHS, Walmsley S. Non-AIDS-defining comorbidities impact health related quality of life among older adults living with HIV. *Front Med (Lausanne)*. 2024 Apr 16;11:1380731. doi: 10.3389/fmed.2024.1380731. PMID: 38690177; PMCID: PMC11058201.
- 13: Chen VH, Patterson KM, Montaner J, Wiseman SM. Improved outcomes following gastrointestinal surgery among people living with HIV in the HAART-era: A scoping review. *Am J Surg*. 2024 Mar 26:S0002-9610(24)00166-1. doi: 10.1016/j.amjsurg.2024.03.006. Epub ahead of print. PMID: 38599893.
- 14: Azar P, Wong JSH, Mathew N, Ignaszewski MJ, Partovi N, Krausz RM, Ajidahun A, Thotakura S, Harris M, Barrios R, Montaner JSG, Maharaj AR. 48-hour Induction of Transdermal Buprenorphine to Extended-release Buprenorphine. *J Addict Med*. 2024 Jan-Feb 01;18(1):82-85. doi: 10.1097/ADM.0000000000001231. Epub 2023 Oct 17. PMID: 37847573.
- 15: Yuen AW, Sang JM, Wang L, Barath J, Lachowsky NJ, Lal A, Elefante J, Hart TA, Skakoon-Sparling S, Grey C, Grace D, Cox J, Lambert G, Noor SW, Apelian H, Parlette A, Card KG, Hull MW, Jollimore J, Moore DM. Attitudes of Gay, Bisexual, and Other Men Who Have Sex with Men (GBM) toward Their Use of Amphetamine-Type Stimulants and Relation to Reducing Use in Three Canadian Cities. *Subst Use Misuse*. 2024;59(2):278-290. doi: 10.1080/10826084.2023.2269577. Epub 2023 Dec 28. PMID: 37867395.
- 16: Zahran A, Dermody SS, Berlin GW, Palma PA, Skakoon-Sparling S, Noor SW, Lachowsky

NJ, Grace D, Cox J, Moore DM, Lambert G, Zhang TH, Dvorakova M, Jollimore J, Lal A, Hart TA. Problematic alcohol use among gay, bisexual, and other men who have sex with men in Canada: the role of proximal stressors and anxiety. *Subst Abuse Treat Policy.* 2024 Feb 28;19(1):16. doi: 10.1186/s13011-024-00597-8. PMID: 38414042; PMCID: PMC10900570.

17: Bao SL, Olarewaju G, Wang L, Sang J, Zhu J, Lachowsky NJ, Lal A, Ablona A, Ho D, Baharuddin F, Villa L, Lambert S, Dulai J, Moore DM. Ethno-racial variations in mental health symptoms among sexually-active gay, bisexual, and other men who have sex with men in Vancouver, Canada: a longitudinal analysis. *BMC Public Health.* 2024 Jan 24;24(1):282. doi: 10.1186/s12889-024-17743-3. PMID: 38267930; PMCID: PMC10807146.

18: Shayegi-Nik, S., Wang, L., Li, J. et al. Impact of Substance Use and Mood/Anxiety Disorders on the HIV Continuum of Care in British Columbia, Canada, from 2001 to 2019. *Int J Ment Health Addiction* (2024). <https://doi.org/10.1007/s11469-024-01272-6>

19: Hart TA, Noor SW, Tavangar F, Zahran A, Skakoon-Sparling S, Tan DHS, Lambert G, Grace D, Lachowsky N, Sang JM, Palma PA, Zhang T, Dvorakova M, Cox J, Moore DM; Engage Study. Human Immunodeficiency Virus Treatment Attitudes and Bacterial Sexually Transmitted Infections Among Gay and Bisexual Men. *Sex Transm Dis.* 2024 Mar 1;51(3):178-185. doi: 10.1097/OLQ.0000000000001915. Epub 2023 Dec 28. PMID: 38412464.

# REPORTS, GUIDELINES & POLICY UPDATES



BC-CfE 2023 QUARTERLY REPORT | Q4

---

## Drug Treatment Program Monthly Reports

October 2023 (released March 2024)

November 2023 (released March 2024)

## HIV Monitoring Semi-Annual Report

Fourth Quarter 2023

## Doxycycline for B-STI Prevention Enrolment and Prescription Form

(released January 2024)



BRITISH COLUMBIA  
CENTRE *for* EXCELLENCE  
*in* HIV/AIDS

---



**Providence**  
Health Care



Ministry of  
Health

