



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

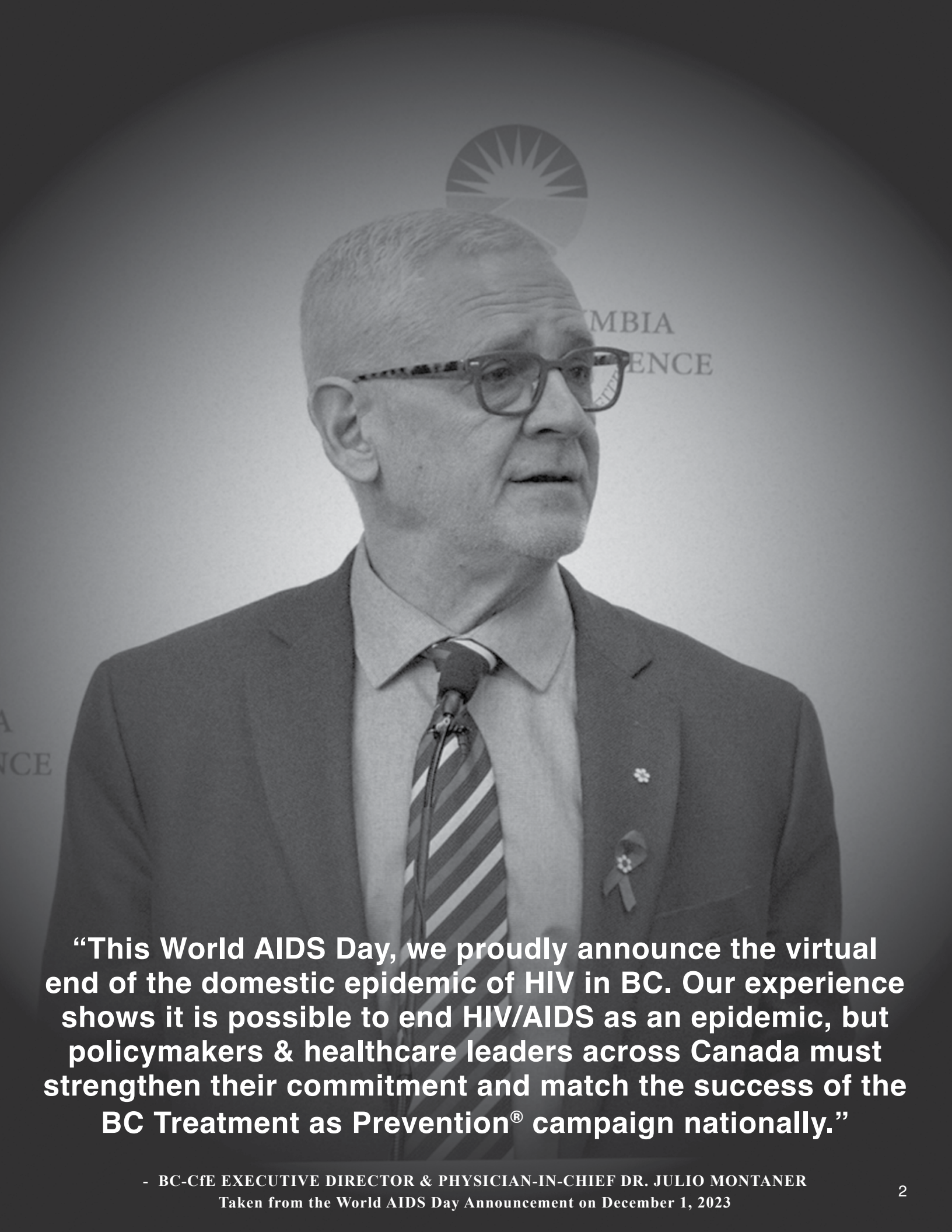


Providence  
Health Care

# BC CENTRE FOR EXCELLENCE IN HIV/AIDS

KEY OUTPUTS, RESEARCH, POLICY & INNOVATION

REPORTING PERIOD 2023 - Q3 | OCTOBER 1 - DECEMBER 31



**“This World AIDS Day, we proudly announce the virtual end of the domestic epidemic of HIV in BC. Our experience shows it is possible to end HIV/AIDS as an epidemic, but policymakers & healthcare leaders across Canada must strengthen their commitment and match the success of the BC Treatment as Prevention® campaign nationally.”**

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BC-CfE 2023 QUARTERLY REPORT | Q3

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# GRANTS, AWARDS & FUNDING

BC-CfE 2023 QUARTERLY REPORT | Q3

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## **Dr. Jeffrey Joy**

Covarnet Operating Grant (supporting the Dynamics and Evolution of Human Viruses Conference)

\$30,000

## **Dr. Katherine Kooij**

CIHR Health System Impact Fellowship Grant

\$155,000 over two years



# PRESENTATIONS & EDUCATIONAL SESSIONS

## BC-CfE Journal Clubs

### **Effects of COVID-19 mRNA vaccination on HIV viremia and reservoir size**

Maggie Duncan  
October 19, 2023

### **Pitavastatin to Prevent Cardiovascular Disease in HIV Infection**

Erin Ready  
December 7, 2023

## HIV/AIDS Webinar Learning Series

### **The Interplay Between Pain and Addiction**

Dr. Launette Rieb  
October 18, 2023

### **HIV Associated Solid Malignancies: A Medical Oncology Perspective**

Dr. Alannah Smrke  
November 15, 2023

## BC-CfE Hope to Health Learning Series

### **SIFI Protocol Education Session**

Dr. Martha Ignaszewski  
October 3, 2023

### **Alcohol Use Disorders: Management and Harm Reduction**

Dr. Rupi Brar  
October 25, 2023

### **HIV PrEP in persons who use drugs - Where are we now?**

Dr. Mark Hull  
November 8, 2023

## External Presentations

### **A clonally expanded provirus with a 3-base deletion in the major splice donor site as the cause of persistent low-level viremia in an individual with subtype a-like infection**

NIH Strategies for an HIV Cure 2023  
Poster authors: Omondi FH, Brumme CJ, Dong W, Lapointe H, Barad E, Speckmaier S, Kinloch N, Beelen C, Kirkby D, Harris M, Montaner JSG, Guillemi S, Brumme ZL  
October 12-13, 2023

### **Sociodemographic, Clinical, And Immunogenetic Correlates Of HIV Reservoir Size During ART**

NIH Strategies for an HIV Cure 2023  
Poster authors: Duncan MC, Barad E, Omondi FH, Kinloch NN, Lapointe HR, Speckmaier S, Garcia-Moran N, Shahid A, Rickett D, Bacani N, Sereda P, Hull M, Barrios R, Harris M, Montaner JSG, Brockman MA, Brumme CJ, Brumme ZL  
October 12-13, 2023

### **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**

NIH Strategies for an HIV Cure 2023  
Poster authors: Shahid A, MacLennan S, Jones BR, Sudderuddin 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, and The MACS/WIHS Combined Cohort Study (MWCSS)  
October 12-13, 2023

**Prevalence of Substance-Use and Related Disorders**

Canadian Society of Addiction Medicine (CSAM) Conference  
HERE Study team  
October 19, 2023

**Prevalence and clinical impact of doravirine-associated resistance mutations in a real-world population of NNRTI-naive and NNRTI-experienced individuals.**

European AIDS Conference 2023  
Dr. Chanson Brumme  
October 20, 2023

**Meeting the HIV, hepatitis C and STBBI-related needs of older persons**

4th Canadian HIV and Aging Symposium - Panel Discussion  
Dr. Marianne Harris  
October 20, 2023

**Engagement and retention in primary care among a clinic cohort of residents of the downtown eastside, Vancouver with high prevalence of substance use and related disorders.**

Canadian Society of Addiction Medicine (CSAM) Conference  
Lauren Harrison and the HERE Study team  
October 21, 2023

**Predictors of long-term decline over 10 years among older adults with well-controlled HIV from the Positive Brain Health Now cohort**

14th International Workshop on HIV & Aging  
Marie- Josée Brouillette  
October 26, 2023

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

BC Phylogenetic Monitoring Committee  
Dr Jeffrey Joy  
October 26, 2023

**A Pilot Project to Evaluate the Impact of a Text Messaging Intervention to Improve Engagement in Primary Care by Clients with Mental Health and Substance Use Disorders in the Downtown Eastside**

Canadian Centre on Substance Use and Addiction (CCSA) Conference  
Poster authors: Harrison L, Zhang W, Shen T, et al.  
November 20, 2023

**Sharing Research on the HCV Patient Journey: Testing, Linkage-to-Care, and Experiences after Treatment**

Liver Forum 2023  
Dr. Kate Salters  
November 29, 2023

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

Saskatchewan Phylogenetic Monitoring Initiative  
Dr. Jeffrey Joy  
November 29, 2023

**Tratamiento para la prevención. La estrategia canadiense para terminar la pandemia del SIDA.**

IX Congreso de Enfermedades Endemoepidémicas  
Dr. Julio Montaner  
November 30, 2023

**New insights into within-host HIV reservoir evolutionary dynamics**

10th El Centro de Investigación de Enfermedades Infecciosas (CIENI) Instituto Nacional de Enfermedades Respiratorias (INER) - Capasits Oaxaca HIV meeting  
Dr. Zabrina Brumme  
December 4 2023

**I get by with a little help from my friends: cognitive impairment and social isolation among persons aging with HIV**

25th International Workshop on Long-term Complications of HIV and SARS-CoV-2  
Poster authors: Zhabokritsky A, Falutz J, Harris M, Guillemi S, Andany N, Walmsley S.  
December 14-15, 2023



# PEER-REVIEWED JOURNAL ARTICLES & BOOK PUBLICATIONS

1: Tam C, Wesseling T, Wang L, Salters K, Moore DM, Dawydiuk N, Zhu J, Grieve S, Bingham B, McLinden T, Hogg R, Barrios R. It's all about connection: Determinants of social support and the influence on HIV treatment interruptions among people living with HIV in British Columbia, Canada. *BMC Public Health*. 2023 Dec 16;23(1):2524. doi: 10.1186/s12889-023-17416-7. PMID: 38104090; PMCID: PMC10725596.

2: 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*. 2023 Dec 14. doi: 10.1002/ana.26840. Epub ahead of print. PMID: 38098141.

3: Doyle CM, Milwid RM, Cox J, Xia Y, Lambert G, Tremblay C, Otis J, Boily MC, Baril JG, Thomas R, Blais AD, Trottier B, Grace D, Moore DM, Mishra S, Maheu-Giroux M. Population-level effectiveness of pre-exposure prophylaxis for HIV prevention among men who have sex with men in Montréal (Canada): a modelling study of surveillance and survey data. *J Int AIDS Soc*. 2023 Dec;26(12):e26194. doi: 10.1002/jia2.26194. PMID: 38054579; PMCID: PMC10699110.

4: Datwani S, Kalikawe R, Mwimanzi F, Speckmaier S, Liang R, Sang Y, Waterworth R, Yaseen F, Lapointe HR, Barad E, DeMarco ML, Holmes DT, Simons J, Montaner JSG, Romney MG, Brumme ZL,

Brockman MA. Dynamics of T-cell Responses Following COVID-19 mRNA Vaccination and Breakthrough Infection in Older Adults. *Pathog Immun*. 2023 Nov 17;8(1):117-135. doi: 10.20411/pai.v8i1.613. PMID: 38035132; PMCID: PMC10686373.

5: Kinloch NN, Shahid A, Dong W, Kirkby D, Jones BR, Beelen CJ, MacMillan D, Lee GQ, Mota TM, Sudderuddin H, Barad E, Harris M, Brumme CJ, Jones RB, Brockman MA, Joy JB, Brumme ZL. HIV reservoirs are dominated by genetically younger and clonally enriched proviruses. *mBio*. 2023 Nov 16;14(6):e0241723. doi: 10.1128/mbio.02417-23. Epub ahead of print. PMID: 37971267; PMCID: PMC10746175.

6: 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*. 2023 Nov 14:1-10. doi: 10.1080/09540121.2023.2277150. Epub ahead of print. PMID: 37963415.

7: Mohammadi A, Etemad B, Zhang X, Li Y, Bedwell GJ, Sharaf R, Kittilson A, Melberg M, Crain CR, Traunbauer AK, Wong C, Fajnzylber J, Worrall DP, Rosenthal A, Jordan H, Jilg N, Kaseke C, Giguel F, Lian X, Deo R, Gillespie E, Chishti R, Abrha S, Adams T, Siagian A, Dorazio D, Anderson PL, Deeks SG, Lederman MM, Yawetz S, Kuritzkes DR, Lichterfeld MD, Sieg S, Tsibris A, Carrington M, Brumme ZL, Castillo-Mancilla JR,

Engelman AN, Gaiha GD, Li JZ. Viral and host mediators of non-suppressible HIV-1 viremia. *Nat Med*. 2023 Dec;29(12):3212-3223. doi: 10.1038/s41591-023-02611-1. Epub 2023 Nov 13. PMID: 37957382; PMCID: PMC10719098.

8: Sang JM, Moore DM, Wang L, Chia J, Toy J, Montaner J, Skakoon-Sparling S, Cox J, Lambert G, Grace D, Hart TA, Lal A, Jollimore J, Lachowsky NJ. Examining the secondary impacts of the COVID-19 pandemic on syndemic production and PrEP use among gay, bisexual and other men who have sex with men (GBM) in Vancouver, Canada. *BMC Public Health*. 2023 Oct 30;23(1):2124. doi: 10.1186/s12889-023-17049-w. PMID: 37904163; PMCID: PMC10614320.

9: 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. *medRxiv* [Preprint]. 2023 Oct 9:2023.10.08.23296718. doi: 10.1101/2023.10.08.23296718. PMID: 37873490; PMCID: PMC10593027.

10: 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.

11: Hammond K, Lee T, Vulesevic B, Singer J, Needham J, Burchell AN, Samji H, Walmsley S, Hull M, Jenabian MA, Routy JP, Margolese S, Mandarino E, Anis AH, Cooper

CL, Costiniuk CT. Preventative behaviours and COVID-19 infection in a Canadian cohort of people living with HIV. *AIDS Res Ther*. 2023 Oct 20;20(1):73. doi: 10.1186/s12981-023-00571-7. PMID: 37858245; PMCID: PMC10588118.

12: 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*. 2023 Oct 17. doi: 10.1097/ADM.0000000000001231. Epub ahead of print. PMID: 37847573.

13: Hamze H, Tai T, Harris D. Strongyloides hyperinfection syndrome precipitated by immunosuppressive therapy for rheumatoid arthritis and COVID-19 pneumonia. *Trop Dis Travel Med Vaccines*. 2023 Oct 5;9(1):15. doi: 10.1186/s40794-023-00201-0. PMID: 37794447; PMCID: PMC10552379.

14: Giguère K, Chartrand-Lefebvre C, Baril JG, Conway B, El-Far M, Falutz J, Harris M, Jenabian MA, Leipsic J, Loutfy M, Mansour S, MacPherson P, Margolese S, McMillan JM, Monteith K, Murray MCM, Pick N, Thomas R, Trottier B, Trottier S, Tsoukas C, Walmsley S, Wong A, Tremblay C, Durand M; Canadian HIV And Aging Cohort Study Group. Baseline characteristics of a prospective cohort study of aging and cardiovascular diseases among people living with HIV. *HIV Med*. 2023 Dec;24(12):1210-1221. doi: 10.1111/hiv.13550. Epub 2023 Oct 1. PMID: 37779267.

15: Hogg R, Marziali M. Behind elevated hospitalisation rates: addressing racism in the medical system. *Lancet Public Health*. 2023 Oct;8(10):e746-e747. doi: 10.1016/S2468-2667(23)00210-4. PMID: 37777279.

16: Malama K, Logie CH, Sokolovic N, Skeritt L, O'Brien N, Cardinal C, Gagnier B, Loutfy



M, Kaida A, de Pokomandy A. Pathways From HIV-Related Stigma, Racial Discrimination, and Gender Discrimination to HIV Treatment Outcomes Among Women Living With HIV in Canada: Longitudinal Cohort Findings. *J Acquir Immune Defic Syndr*. 2023 Oct 1;94(2):116-123. doi: 10.1097/QAI.0000000000003241. PMID: 37368938.

17: DeKoven S, Naccarato M, Brumme CJ, Tan DHS. Treatment-emergent reverse transcriptase resistance during antiretroviral therapy with bicitgravir, tenofovir alafenamide, and emtricitabine: A case series. *HIV Med*. 2023 Nov;24(11):1137-1143. doi: 10.1111/hiv.13520. Epub 2023 Jun 14. PMID: 37317505.

18: Boucoiran I, Kaida A, Blakeley C, Skerritt L, Khan S, Bakombo MD, Greene S, Kennedy VL, Brophy J, Balleny R, Gormley R, Loutfy M, de Pokomandy A; CHIWOS Research Team. Practices, support and stigma related to infant feeding and postpartum engagement in care among women living with HIV in Canada. *AIDS Care*. 2023 Dec;35(12):1971-1981. doi: 10.1080/09540121.2023.2186341. Epub 2023 Mar 15. PMID: 36919583.

19: Berlin GW, Fulcher K, Taylor K, Nguyen T, Montiel A, Moore D, Hull M, Lachowsky NJ. Links Between Childhood Abuse, Insidious Trauma, and Methamphetamine Use Across the Lifespan Among Gay, Bisexual, and Other Men Who Have Sex with Men: A Qualitative Analysis. *J Homosex*. 2023 Nov 10;70(13):3192-3212. doi: 10.1080/00918369.2022.2089075. Epub 2022 Jun 27. PMID: 35759650.

20: Cholette F, Lazarus L, Macharia P, Thompson LH, Githaiga S, Mathenge J, Walimbwa J, Kuria I, Okoth S, Wambua S, Albert H, Mwangi P, Adhiambo J, Kasiba R, Juma E, Battacharjee P, Kimani J, Sandstrom P, Meyers AFA, Joy JB, Thomann M, McLaren PJ, Shaw S, Mishra S, Becker

ML, McKinnon L, Lorway R. Community Insights in Phylogenetic HIV Research: The CIPHR Project Protocol. *Glob Public Health*. 2023 Jan;18(1):2269435. doi: 10.1080/17441692.2023.2269435. Epub 2023 Oct 18. PMID: 37851872.

## Drug Treatment Program Monthly Reports

June 2023 (released November 2023)

July 2023 (released November 2023)

August 2023 (released December 2023)

September 2023 (released December 2023)

## PrEP Semi-Annual Report for BC

Second Quarter 2023

## Respiratory syncytial virus (RSV) vaccine guideline statement

(updated December 2023)

## Doxycycline for B-STI Prevention Patient Information Sheet

(released November 2023)

## Green Office Initiatives

The BC-CfE took part in the Fall Go By Bike Week (October 16- 29, 2023) with six riders logging a total of 32 trips over 331 kilometres. According to HUB Cycling, these efforts collectively burned 9,931 calories and would have saved 72kg of greenhouse gases.

The Facilities department continues to increase energy efficiency & reduce waste by using LED lights, repurposing furniture, and implementing a recycling program for cardboard, plastics, fluorescent tubes and batteries.



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