



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

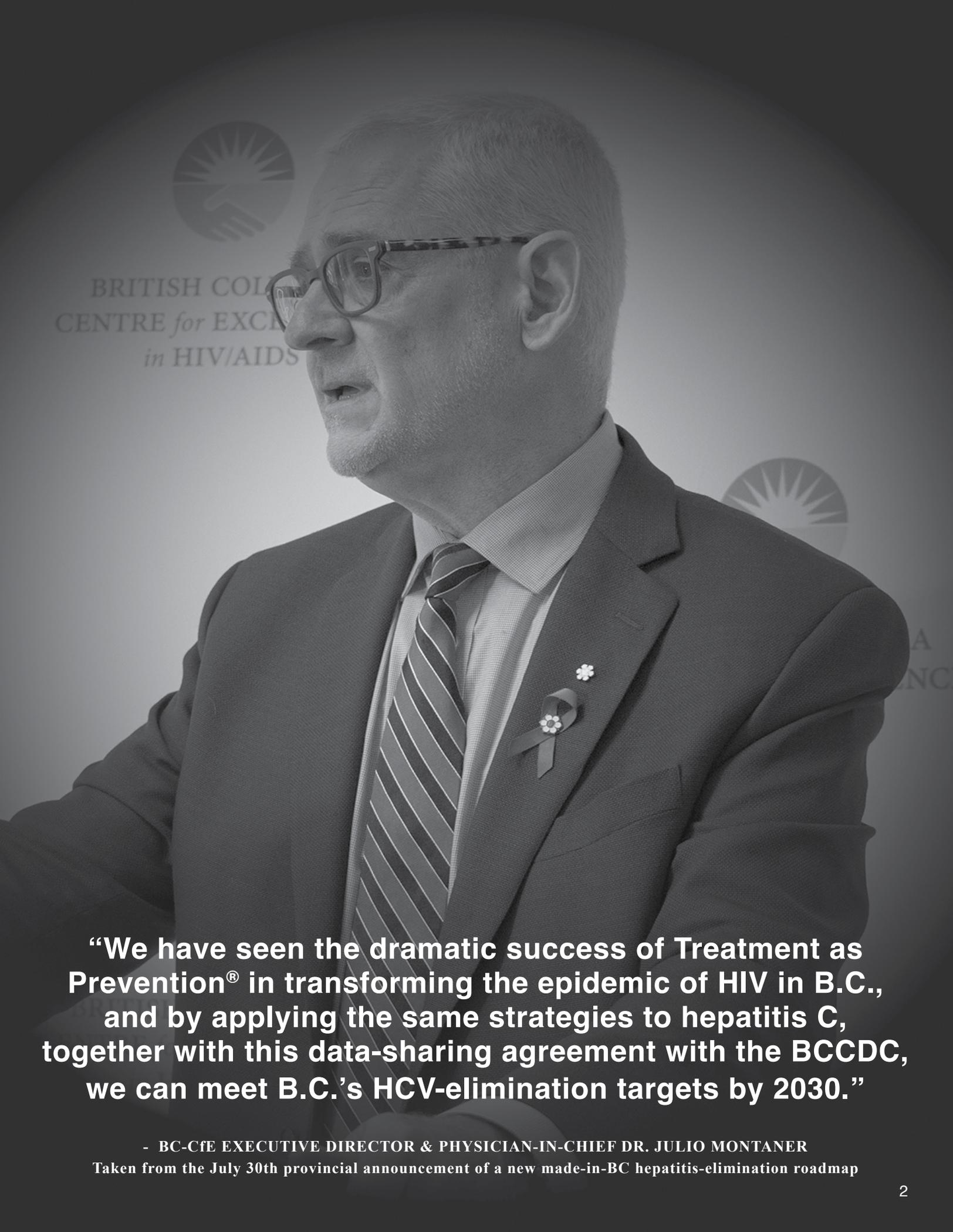


Providence  
Health Care

# BC CENTRE FOR EXCELLENCE IN HIV/AIDS

KEY OUTPUTS, RESEARCH, POLICY & INNOVATION

REPORTING PERIOD 2023 - Q2 | JULY 1 - SEPTEMBER 30



BRITISH COLUMBIA  
CENTRE for EXCELLENCE  
in HIV/AIDS

**“We have seen the dramatic success of Treatment as Prevention® in transforming the epidemic of HIV in B.C., and by applying the same strategies to hepatitis C, together with this data-sharing agreement with the BCCDC, we can meet B.C.’s HCV-elimination targets by 2030.”**

- BC-CfE EXECUTIVE DIRECTOR & PHYSICIAN-IN-CHIEF DR. JULIO MONTANER

Taken from the July 30th provincial announcement of a new made-in-BC hepatitis-elimination roadmap

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BC-CfE 2023 QUARTERLY REPORT | Q2

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# GRANTS, AWARDS & FUNDING

BC-CfE 2023 QUARTERLY REPORT | Q2

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## **BC-CfE Laboratory (co-PI Dr. Chanson Brumme)**

CIHR Operating Grant: HIV/AIDS and STBBI

Community-Based Research - General

*REDOSE-Women: Reevaluating antiretroviral Drug concentrations and Side Effects in older women*

\$449,027 over three years (~\$100,000 to BC-CfE Laboratory)

## **BC-CfE Laboratory (co-PI Dr. Chanson Brumme)**

CIHR Project Grant

*Delivery of Antiretroviral Drugs across Placental-Fetal Barriers: Relevance to in Utero Drug Toxicity*

\$960,076 over five years (small portion to BC-CfE Laboratory)

## **BC-CfE Laboratory (co-PI Dr. Chanson Brumme)**

CIHR Project Grant - PA: Women's Health

*Effects of age on antiretroviral concentrations and adverse drug reactions for women with HIV*

\$100,000 (small portion to BC-CfE Laboratory)

## **Dr. Viviane Lima**

UBC Outstanding Academic Performance Award

## **Dr. Viviane Lima**

CIHR Planning and Dissemination Grant - Institute Community Support Grant

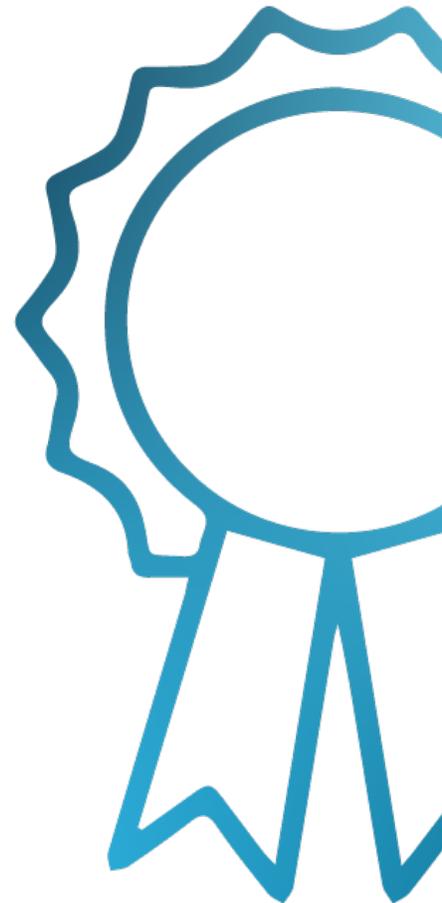
*It's All about the Data: Advancing Knowledge in Data Collection, Management and Accessibility among HIV Researchers in Canada*

## **Kiana Yazdani**

President's Academic Excellence Initiative PhD Award,  
UBC Faculty of Medicine Graduate Award

## **Kiana Yazdani**

Four-Year Doctoral Fellowship Award



# PRESENTATIONS & EDUCATIONAL SESSIONS

## BC-CfE Journal Clubs

### **Bringing Trauma-Informed Care to Bali**

Arleen Tyndall

July 26, 2023

### **Trends in Involuntary Psychiatric Hospitalization in British Columbia**

Grace Sykes

September 21, 2023

## HIV/AIDS Webinar Learning Series

### **HIV Cure Research: an Update**

Dr. Zabrina Brumme

September 27, 2023

## BC-CfE Hope to Health Learning Series

### **Managing Treatment Failures in Hepatitis C**

Dr. Alnoor Ramji

September 27, 2023

## External Presentations

### **Proviruses with deletions in HIV's major splice donor site can cause persistent low-level viremia during ART**

Sub-Saharan Network for TB/HIV Research Excellence (SANTHE) 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

July 12, 2023

### **A case of persistent low-level viremia during ART fueled by a clonally expanded provirus with a 3 base deletion in HIV's major splice donor site**

### **12th International AIDS Society Conference on HIV Science**

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 Z.

July 23, 2023

### **Canadian Phylogenetic Monitoring Initiative**

Presentation to the Public Health Agency of Canada Dr. Jeffrey Joy

August 1, 2023

Dr. Jeffrey Joy organized the Taming the BEAST International Workshop on Phylogenetic Analysis held in Squamish, BC from August 14-18, 2023

### **Bayesian Evolutionary Analysis by Sampling Trees**

Taming the BEAST 2023 Opening Address

Dr. Jeffrey Joy

August 14, 2023

### **Update on phylogenetic monitoring in Canada**

Presentation to the Public Health Agency of Canada

Dr. Jeffrey Joy

September 6, 2023

### **Within-host HIV reservoir dynamics**

HIV Cure symposium (Ghent, Belgium)

Dr. Zabrina Brumme

September 11, 2023

### **A systematic review of sudden cardiac death in adults living with HIV**

Fast-Track Cities 2023 conference

Poster authors: James Pierzchalski, Katherine Kooij, Silvia Guillemi, Reginald Smith, Lawrence McCandless, Robert Hogg

September 25, 2023

# PEER-REVIEWED JOURNAL ARTICLES & BOOK PUBLICATIONS

1: Razavi HA, Buti M, Terrault NA, Zeuzem S, Yurdaydin C, Tanaka J, Aghemo A, Akarca US, Al Masri NM, Alalwan AM, Aleman S, Alghamdi AS, Alghamdi S, Al-Hamoudi WK, Aljumah AA, Altraif IH, Asselah T, Ben-Ari Z, Berg T, Biondi MJ, Blach S, Braga WSM, Brandão-Mello CE, Brunetto MR, Cabezas J, Cheinquer H, Chen PJ, Cheon ME, Chuang WL, Coffin CS, Coppola N, Craxi A, Crespo J, De Ledinghen V, Duberg AS, Etzion O, Ferraz MLG, Ferreira PRA, Fornis X, Foster GR, Gaeta GB, Gamkrelidze I, García-Samaniego J, Gheorghe LS, Gholam PM, Gish RG, Glenn J, Hercun J, Hsu YC, Hu CC, Huang JF, Janjua N, Jia J, Kåberg M, Kaita KDE, Kamal H, Kao JH, Kondili LA, Lagging M, Lázaro P, Lazarus JV, Lee MH, Lim YS, Marotta PJ, Navas MC, Naveira MCM, Orrego M, Osiowy C, Pan CQ, Pessoa MG, Raimondo G, Ramji A, Razavi-Shearer DM, Razavi-Shearer K, Ríos-Hincapié CY, Rodríguez M, Rosenberg WMC, Roulot DM, Ryder SD, Safadi R, Sanai FM, Santantonio TA, Sarrazin C, Shouval D, Tacke F, Tergast TL, Villalobos-Salcedo JM, Voeller AS, Yang HI, Yu ML, Zuckerman E; Polaris Observatory. Hepatitis D double reflex testing of all hepatitis B carriers in low-HBV- and high-HBV/HDV-prevalence countries. *J Hepatol.* 2023 Aug;79(2):576-580. doi: 10.1016/j.jhep.2023.02.041. Epub 2023 Apr 6. PMID: 37030400.

2: Horvath RM, Brumme ZL, Sadowski I. CDK8 inhibitors antagonize HIV-1 reactivation and promote provirus latency in T cells. *J Virol.* 2023 Sep 28;97(9):e0092323. doi: 10.1128/jvi.00923-23. Epub 2023 Sep 6. PMID: 37671866; PMCID: PMC10537590.

3: Emerson SD, McLinden T, Sereda P, Lima VD, Hogg RS, Kooij KW, Yonkman AM, Salters KA, Moore D, Toy J, Wong J, Consolacion T, Montaner JSG, Barrios R. Identification of people with low prevalence diseases in administrative healthcare records: A case study of HIV in British Columbia, Canada. *PLoS One.* 2023 Aug 31;18(8):e0290777. doi: 10.1371/journal.pone.0290777. PMID: 37651428; PMCID: PMC10470893.

4: Dufour C, Ruiz MJ, Pagliuzza A, Richard C, Shahid A, Fromentin R, Ponte R, Cattin A, Wiche Salinas TR, Salahuddin S, Sandstrom T, Schinkel SB, Costiniuk CT, Jenabian MA, Ancuta P, Routy JP, Cohen ÉA, Brumme ZL, Power C, Angel JB, Chomont N. Near full-length HIV sequencing in multiple tissues collected postmortem reveals shared clonal expansions across distinct reservoirs during ART. *Cell Rep.* 2023 Sep 26;42(9):113053. doi: 10.1016/j.celrep.2023.113053. Epub 2023 Sep 6. PMID: 37676762.

5: Jones BR, Joy JB. Inferring Human Immunodeficiency Virus 1 Proviral Integration Dates With Bayesian Inference. *Mol Biol Evol.* 2023 Aug 3;40(8):msad156. doi: 10.1093/molbev/msad156. PMID: 37421655; PMCID: PMC10411489.

6: Davy-Mendez T, Napravnik S, Hogan BC, Eron JJ, Gebo KA, Althoff KN, Moore RD, Silverberg MJ, Horberg MA, Gill MJ, Rebeiro PF, Karris MY, Klein MB, Kitahata MM, Crane HM, Nijhawan A, McGinnis KA, Thorne JE, Lima VD, Bosch RJ, Colasanti JA, Rabkin CS, Lang R, Berry SA. Hospital Readmissions

among Persons with HIV in the United States and Canada, 2005-2018: A Collaboration of Cohort Studies. *J Infect Dis.* 2023 Sep 12;jiad396. doi: 10.1093/infdis/jiad396. Epub ahead of print. PMID: 37697938.

7: Nicolau IA, Moineddin R, Antoniou T, Brooks JD, Gillis JL, Kendall CE, Cooper C, Cotterchio M, Salters K, Smieja M, Kroch AE, Lindsay JD, Price C, Mohamed A, Burchell AN. Trends in infection-related and infection-unrelated cancer incidence among people with and without HIV infection in Ontario, Canada, 1996-2020: a population-based matched cohort study using health administrative data. *CMAJ Open.* 2023 Oct 10;11(5):E894-E905. doi: 10.9778/cmajo.20220230. PMID: 37816545; PMCID: PMC10569814.

8: King EM, Carter A, Loutfy M, Webster K, Muchenje M, Murray MCM, de Pokomandy A, Ding E, Li J, Kaida A. Sexual Satisfaction of Midlife Women Living With HIV in Canada: A Prospective Cohort Analysis. *J Acquir Immune Defic Syndr.* 2023 Aug 1;93(4):272-281. doi: 10.1097/QAI.0000000000003204. PMID: 37019076.

9: Angel JB, Freilich J, Arthurs E, Ban JK, Lachaine J, Chounta V, Harris M. Adherence to oral antiretroviral therapy in Canada, 2010-2020. *AIDS.* 2023 Nov 1;37(13):2031-2040. doi: 10.1097/QAD.0000000000003648. Epub 2023 Jul 15. PMID: 37418513; PMCID: PMC10552836.

10: 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.* 2023 Aug 26. doi: 10.1007/s10461-023-04156-3. Epub ahead of print. PMID: 37632606.

11: Harris M. Lenacapavir: an attractive option, but proceed with caution. *Lancet HIV.* 2023 Aug;10(8):e486-e487. doi: 10.1016/S2352-3018(23)00170-4. Epub 2023 Jul 11. PMID: 37451298.

12: Sang JM, Wang L, Moore DM, Barath J, Lal A, Hart TA, Skakoon-Sparling S, Noor SW, Chown S, Lambert G, Cox J, Jollimore J, Parlette A, Apelian H, Grace D, Lachowsky NJ. Examining Associations Between Resilience and PrEP Use Among HIV- negative GBM in Toronto, Montreal and Vancouver. *AIDS Behav.* 2023 Sep;27(9):3109-3121. doi: 10.1007/s10461-023-04031-1. Epub 2023 Mar 3. PMID: 36867322.

13: Niu J, Wang Q, Zhao W, Meng B, Xu Y, Zhang X, Feng Y, Qi Q, Hao Y, Zhang X, Liu Y, Xiang J, Shao Y, Yang B. Structures and immune recognition of Env trimers from two Asia prevalent HIV-1 CRFs. *Nat Commun.* 2023 Aug 4;14(1):4676. doi: 10.1038/s41467-023-40321-x. PMID: 37542068; PMCID: PMC10403546.

14: Blawatt S, Harrison S, Byres D, Foreman J, Amara S, Burdge W, MacDonald S, Schechter MT, Oviedo-Joekes E. The mobilization of nurse-client therapeutic relationships in injectable opioid agonist treatment: Autonomy, advocacy and action. *J Subst Use Addict Treat.* 2023 Nov;154:209154. doi: 10.1016/j.josat.2023.209154. Epub 2023 Aug 29. PMID: 37652211.

15: Snell G, Marshall AD, van Gennip J, Bonn M, Butler-McPhee J, Cooper CL, Kronfli N, Williams S, Bruneau J, Feld JJ, Janjua NZ, Klein M, Cunningham N, Grebely J, Bartlett SR. Public reimbursement policies in Canada for direct-acting antiviral treatment of hepatitis C virus infection: A descriptive study. *Can Liver J.* 2023 Jul 26;6(2):190-200. doi: 10.3138/canlivj-2022-0040. PMID: 37503523; PMCID: PMC10370724.

- 16: Grey C, Tian IL, Skakoon-Sparling S, Daroya E, Klassen B, Lessard D, Gaspar M, Sinno J, Sang JM, Perez-Brumer A, Lachowsky NJ, Moore DM, Jollimore J, Hart TA, Cox J, Grace D. Unpacking racism during COVID-19: narratives from racialized Canadian gay, bisexual, and queer men. *Int J Equity Health*. 2023 Aug 8;22(1):152. doi: 10.1186/s12939-023-01961-z. PMID: 37553689; PMCID: PMC10410892.
- 17: Pakhomova TE, Nicholson V, Fischer M, Ferguson J, Moore DM, Salters K, Lester RT, Kremer H, Dawydiuk N, Barrios R, Parashar S. Exploring Primary Healthcare Experiences and Interest in Mobile Technology Engagement Amongst an Urban Population Experiencing Barriers to Care. *Qual Health Res*. 2023 Jul;33(8-9):765-777. doi: 10.1177/10497323231167829. Epub 2023 May 24. PMID: 37225177.
- 18: Karamouzian M, Rafat B, Kolla G, Urbanoski K, Atkinson K, Bardwell G, Bonn M, Touesnard N, Henderson N, Bowles J, Boyd J, Brunelle C, Eeuwes J, Fikowski J, Gomes T, Guta A, Hyshka E, Ivsins A, Kennedy MC, Laurence G, Martignetti L, Nafeh F, Salters K, Tu D, Strike C, Pauly B, Werb D. Challenges of implementing safer supply programs in Canada during the COVID-19 pandemic: A qualitative analysis. *Int J Drug Policy*. 2023 Oct;120:104157. doi: 10.1016/j.drugpo.2023.104157. Epub 2023 Aug 11. PMID: 37574645.
- 19: Daroya E, Grey C, Lessard D, Klassen B, Skakoon-Sparling S, Gaspar M, Perez-Brumer A, Adam B, Lachowsky NJ, Moore D, Sang JM, Lambert G, Hart TA, Cox J, Jollimore J, Tan DHS, Grace D. 'I did not have sex outside of our bubble': changes in sexual practices and risk reduction strategies among sexual minority men in Canada during the COVID-19 pandemic. *Cult Health Sex*. 2023 Sep;25(9):1147-1163. doi: 10.1080/13691058.2022.2139414. Epub 2022 Nov 6. PMID: 36336339.

- 20: Card KG, Shen T, Barath J, Sang J, Lal A, Moore DM, Lachowsky NJ. Patterns of Event-Level Concurrent Substance Use During Sex Among Gay, Bisexual, and Other Men Who Have Sex with Men in Metro Vancouver. *AIDS Behav*. 2023 Sep;27(9):3157-3170. doi: 10.1007/s10461-023-04036-w. Epub 2023 Mar 21. PMID: 36943600.
- 21: Costiniuk CT, Singer J, Lee T, Galipeau Y, McCluskie PS, Arnold C, Langlois MA, Needham J, Jenabian MA, Burchell AN, Samji H, Chambers C, Walmsley S, Ostrowski M, Kovacs C, Tan DHS, Harris M, Hull M, Brumme ZL, Lapointe HR, Brockman MA, Margolese S, Mandarino E, Samarani S, Vulesevic B, Lebouché B, Angel JB, Routy JP, Cooper CL, Anis AH; COVAXHIV Study Group. Antibody neutralization capacity after coronavirus disease 2019 vaccination in people with HIV in Canada. *AIDS*. 2023 Oct 1;37(12):F25-F35. doi: 10.1097/QAD.0000000000003680. Epub 2023 Aug 2. PMID: 37534695; PMCID: PMC10481923.
- 22: Jetsupphasuk M, Hudgens MG, Lu H, Cole SR, Edwards JK, Adimora AA, Althoff KN, Silverberg MJ, Rebeiro PF, Lima VD, Marconi VC, Sterling TR, Horberg MA, Gill MJ, Kitahata MM, Moore RD, Lang R, Gebo K, Rabkin C, Eron JJ. Optimizing Treatment for Human Immunodeficiency Virus to Improve Clinical Outcomes Using Precision Medicine. *Am J Epidemiol*. 2023 Aug 4;192(8):1341-1349. doi: 10.1093/aje/kwad057. PMID: 36922393

## Drug Treatment Program Monthly Reports

March 2023 (released August 2023)

April 2023 (released August 2023)

May 2023 (released September 2023)

## BC-CfE Pharmacovigilance 2022 Annual Report

## Green Office Initiatives

Recycling efforts have continued including cardboard, plastic and electronics.

Lights have been changed to LED lights as they are in need of replacement.

Furniture is being repurposed.



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