



BRITISH COLUMBIA
CENTRE *for* EXCELLENCE
in HIV/AIDS



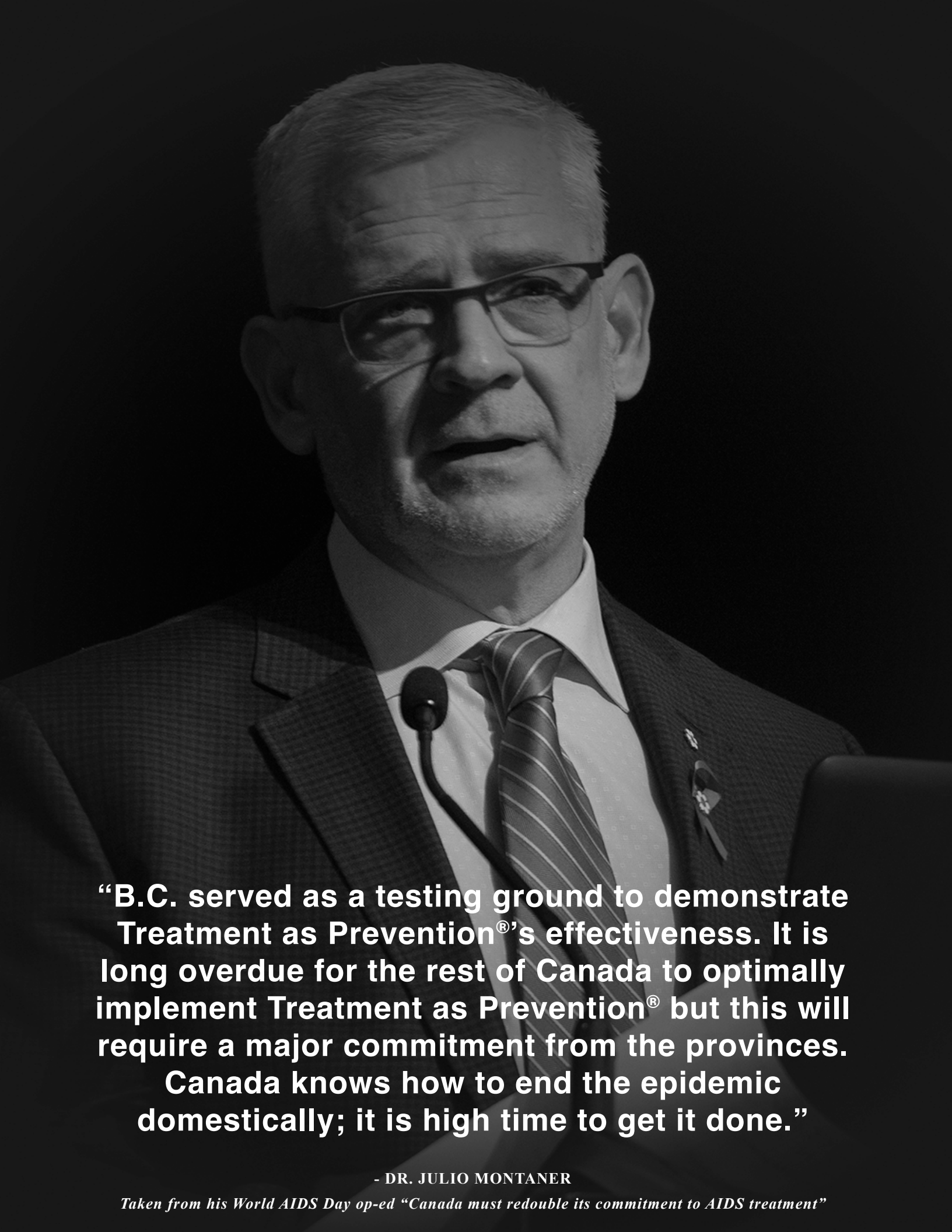
Providence
Health Care

BC Centre for Excellence in HIV/AIDS

KEY OUTPUTS, RESEARCH, POLICY & INNOVATION

REPORTING PERIOD

2022 - Q3 | OCTOBER 1 - DECEMBER 31, 2022



“B.C. served as a testing ground to demonstrate Treatment as Prevention[®]’s effectiveness. It is long overdue for the rest of Canada to optimally implement Treatment as Prevention[®] but this will require a major commitment from the provinces. Canada knows how to end the epidemic domestically; it is high time to get it done.”

- DR. JULIO MONTANER

Taken from his World AIDS Day op-ed “Canada must redouble its commitment to AIDS treatment”

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Grants, Awards & Funding

DR. ZABRINA BRUMME

Public Health Agency of Canada.

“Deconstructing hybrid immune responses to SARS-CoV-2 in older adults and people living with HIV.”

\$615,000 (including \$100,000 for BC-CfE)



Presentations & Educational Sessions

PRESENTATIONS & EDUCATIONAL SESSIONS

BC-CfE Journal Clubs

Weighing the do's and don'ts of applying the OCAP Principles in academic research: Indigenizing the way forward
Claudette Cardinal and Nicole Dawydiuk
October 13, 2022

Contraception in Women Living with HIV in Canada: Where are we and where can we go?
Dr. Ramite Verma
December 1, 2022

Sampling Strategies for Selecting General Population Comparison Cohorts
Dr. Katherine Kooij
December 8, 2022

HIV/AIDS Webinar Learning Series

Trauma Informed and Culturally Safe Care for Indigenous Peoples
Elder Bruce Robinson, Dr. Alan Hirsh, and Dr. David Tu
October 19, 2022

The Traveller with HIV
Dr. David Harris
November 23, 2022

BC-CfE Hope to Health Learning Series

Updates on Sexually Transmitted Infections: STI Treatment and Management
Dr. Natasha Press
October 26, 2022

PRESENTATIONS & EDUCATIONAL SESSIONS

Advancing Resilience
Tara Sudbury
November 22, 2022

BOOST Quality Improvement (QI) Network Events

Interior BOOST Education Webinar 2
Various presenters
October 18, 2022

Interior BOOST Learning Session 2
Various presenters
November 24, 2022

10th International Workshop on HIV Persistence during Therapy 2022
December 13-16, 2022
Miami, Florida

Oral Presentations

Interpreting on-ART proviral diversity in context of HIV's within-host evolutionary history enriches our understanding of reservoir dynamics
Dr. Zabrina Brumme

Investigating short-term effects of COVID-19 mRNA vaccination on plasma viremia and intact HIV reservoir size in individuals receiving antiretroviral therapy (ART)
Maggie Duncan

PRESENTATIONS & EDUCATIONAL SESSIONS

*Poster Presentations***Heterogenous associations between HIV genomic integrity and proviral longevity during long-term ART**

Authors: Kinloch NN, Shahid A, Dong W, Kirkby D, Jones BR, Beelen C, MacMillan D, Mota TM, Sudderuddin H, Barad E, Harris M, Brumme CJ, Jones RB, Brockman MA, Joy JB, Brumme ZL

Investigating short-term effects of COVID-19 MRNA vaccination on plasma viremia and intact HIV reservoir size in individuals receiving antiretroviral therapy (ART)

Authors: Duncan M, Omondi FH, Kinloch N, Lapointe H, Speckmaier S, Moran-Garcia N, Lowe C, Harris M, Brockman M, Brumme Z

Longitudinal proviral landscape and reservoir dynamics in a unique case of HIV superinfection

Authors: Omondi FH, Kinloch NN, Dong W, Khadka P, Ren Y, Wilson A, Benko E, Barad E, Ostrowski M, Lynch RM, Brumme CJ, Kovacs C, Jones RB, Lee GQ, Brumme ZL

Proviruses persisting during the initial years of suppressive ART are relatively stable in terms of genetic diversity, clonal composition, and inferred integration date distribution

Authors: Shahid A, MacLennan S, Jones BR, Sudderuddin H, Dang Z, Cobarrubias K, Duncan MC, Kinloch NN, Dapp MJ, Fischl MA, Ofotokun I, Adimora A, Gange S, Williams B, Aouizerat B, Kuniholm MH, Kassaye S, Mullins JI, Goldstein H, Joy JB, Anastos K, Brumme ZL, and the MWCCS study.

Other Presentations**Molecular epidemiology and phylogenetic monitoring for HIV in Saskatchewan**

Presentation to Saskatchewan Public Health
Dr. Jeffrey Joy
October 2022

Adapting to Changing Needs: the Development of the BC Centre for Excellence in HIV/AIDS / University of British Columbia H2SUM Enhanced Skills Program

UBC Centre for Health Education Scholarship:
Celebration of Scholarship
Dr. Cathy Puskas
October 12, 2022

Caring for Persons with Schizophrenia and Schizoaffective Disorder in the Community: Online Learning to Increase Treatment Options by Community Providers.

UBC Centre for Health Education Scholarship:
Celebration of Scholarship
Authors: Puskas C, Montessori V, Guillemi S, Khandaghi Y, Gal V, Fairweather T, Norbury M, Barrios R, Anonuevo J, Charlebois P, White RF, Neelakant H.
October 12, 2022

Third dose of vaccine enhances antibody response, particularly among older adults

CITF Spotlight Issue 80: COVID-19 and older Canadians: Where are we now?
Dr. Zabrina Brumme
October 18, 2022

Proviral diversity and dynamics on long-term ART: insights from within-host phylogenetic analyses

REACH NIH Martin Delaney Collaboratory on HIV cure
Dr. Zabrina Brumme
October 27, 2022

Understanding Antibody Responses to COVID-19 Vaccination through Whole Virus Neutralization Assay

SFU Faculty of Health Sciences (FHS)
Research Seminar Series
Peter Cheung
October 27, 2022

Aging with Dignity: A Conversation on Home and Community Care for Older Adults Living with HIV/AIDS

Community-Based Research Centre
(CBRC) Summit
Rana Van Tuyl
October 27, 2022

Status of HIV transmission monitoring and SARS-CoV-2 genomic epidemiology in British Columbia

Presentation to Joint Funding Management Committee
Dr. Jeffrey Joy
November 2022

Genomic epidemiology of SARS-CoV-2 in British Columbia

Presentation to British Columbia Centre for Disease Control
Dr. Jeffrey Joy
November 2022

Phylogenetic monitoring reports in British Columbia

Presentation to BC Phylogenetic Monitoring Committee
Dr. Jeffrey Joy
November 2022

Investigating the effectiveness of Canadian travel restrictions through SARS-CoV-2 phylogeographic analysis

Presentation to US Centres for Disease Control and Prevention Border Services Committee
Dr. Jeffrey Joy & Angela McLaughlin
November 2, 2022

Updates from the 2022 AIDS conference

SnackChat
Clara Tam & Tim Wesseling
November 22, 2022

Hitting a moving target: how understanding HIV reservoir dynamics can help advance HIV cure research

UBC Life Sciences Seminar Series
Dr. Zabrina Brumme
November 25, 2022

Phylogenetic clustering of HIV cases in Nova Scotia

Presentation to Nova Scotia Public Health
Dr. Jeffrey Joy
December 2022

Cluster 304: a multi P/T HIV transmission cluster

Presentation to the Yukon Chief Medical Officer of Health and Team
Dr. Jeffrey Joy
December 2022

Safe Supply

Snackchat at AIDS Vancouver
Julie Foreman
November 29, 2022

Being a Peer Research Associate

SnackChat at Kilala Lelum
Christina Fulton, Tim Wesseling, and Claudette Cardinal
December 6, 2022

Development and implementation of phylogenetic monitoring in Canada.

Presentation to H2Seq Initiative – molecular epidemiology for public health interventions in HCV/HIV in Australia
Dr. Jeffrey Joy
December 8, 2022

SHAPE Study

SnackChat at Kilala Lelum
Tatiana Pakhomova, Tim Wesseling, and Rebeccah Parry
December 13, 2022

**Development and implementation of
phylogenetic monitoring in Canada**

Presentation to the Public Health Agency of
Canada Senior STTBI Leadership
Dr. Jeffrey Joy
December 30, 2022

Peer-reviewed Journal Articles & Book Publications

PUBLICATIONS

1: Lang R, Hogan B, Zhu J, McArthur K, Lee J, Zandi P, Nestadt P, Silverberg MJ, Parcesepe AM, Cook JA, Gill MJ, Grelotti D, Closson K, Lima VD, Goulet J, Horberg MA, Gebo KA, Camoens RM, Rebeiro PF, Nijhawan AE, McGinnis K, Eron J, Althoff KN; North American AIDS Cohort Collaboration on Research and Design (NA- ACCORD) of the International Epidemiologic Databases to Evaluate AIDS (IeDEA). The prevalence of mental health disorders in people with HIV and the effects on the HIV care continuum. *AIDS*. 2023 Feb 1;37(2):259-269. doi: 10.1097/QAD.0000000000003420. Epub 2022 Nov 10. PMID: 36541638; PMCID: PMC9782734.

2: Hart TA, Noor SW, Tavangar F, Berlin GW, Skakoon-Sparling S, Tan DHS, Lambert G, Grace D, Jollimore J, Sang JM, Kirschbaum AL, Kanji R, Apelian H, Cox J, Moore DM, Lachowsky N. Crystal methamphetamine use and bacterial sexually transmitted infections (STIs) among gay, bisexual and other sexual minority men in Canada. *Drug Alcohol Depend*. 2023 Jan 1;242:109718. doi: 10.1016/j.drugalcdep.2022.109718. Epub 2022 Dec 7. PMID: 36516548.

3: Costiniuk CT, Singer J, Lee T, Langlois MA, Arnold C, Galipeau Y, Needham J, Kulic I, Jenabian MA, Burchell AN, Shamji H, Chambers C, Walmsley S, Ostrowski M, Kovacs C, Tan DHS, Harris M, Hull M, Brumme ZL, Lapointe HR, Brockman MA, Margolese S, Mandarino

PUBLICATIONS

E, Samarani S, Vulesevic B, Lebouché B, Angel JB, Routy JP, Cooper CL, Anis AH; COVAXHIV Study Group. COVID-19 vaccine immunogenicity in people with HIV. *AIDS*. 2023 Jan 1;37(1):F1-F10. doi: 10.1097/QAD.0000000000003429. Epub 2022 Nov 18. PMID: 36476452; PMCID: PMC9794000.

4: Appah A, Beelen CJ, Kirkby D, Dong W, Shahid A, Foley B, Mensah M, Ganu V, Puplampu P, Amoah LE, Nii-Trebi NI, Brumme CJ, Brumme ZL. Molecular Epidemiology of HIV-1 in Ghana: Subtype Distribution, Drug Resistance and Coreceptor Usage. *Viruses*. 2022 Dec 31;15(1):128. doi: 10.3390/v15010128. PMID: 36680168; PMCID: PMC9865111.

5: Lapointe HR, Mwimanzi F, Cheung PK, Sang Y, Yaseen F, Speckmaier S, Barad E, Moran-Garcia N, Datwani S, Duncan MC, Kalikawe R, Ennis S, Young L, Ganase B, Omondi FH, Umviligihozo G, Dong W, Toy J, Sereda P, Burns L, Costiniuk CT, Cooper C, Anis AH, Leung V, Holmes D, Demarco ML, Simons J, Hedgcock M, Prystajek N, Lowe CF, Romney MG, Barrios R, Guillemi S, Brumme CJ, Montaner JSG, Hull M, Harris M, Niikura M, Brockman MA, Brumme ZL. Antibody response durability following three-dose COVID-19 vaccination in people with HIV receiving suppressive ART. *AIDS*. 2022 Dec 23. doi: 10.1097/QAD.0000000000003469. Epub ahead of print. PMID: 36545783.

6: Lambert G, Cox J, Fourmigue A, Dvorakova M, Apelian H, Moodie EEM,

Grace D, Skakoon-Sparling S, Moore DM, Lachowsky N, Jollimore J, Lal A, Parlette A, Hart TA; Engage Study Team. HIV incidence and related risks among gay, bisexual, and other men who have sex with men in Montreal, Toronto, and Vancouver: Informing blood donor selection criteria in Canada. *Transfusion*. 2022 Dec;62(12):2555-2567. doi: 10.1111/trf.17127. Epub 2022 Oct 5. PMID: 6197064.

7: Miller RL, McLaughlin A, Montoya V, Toy J, Stone S, Harding J, Liang RH, Wong J, Barrios R, Montaner JSG, Joy JB. Impact of SARS-CoV-2 lockdown on expansion of HIV transmission clusters among key populations: A retrospective phylogenetic analysis. *Lancet Reg Health Am*. 2022 Dec;16:100369. doi: 10.1016/j.lana.2022.100369. Epub 2022 Sep 23. PMID: 36168656; PMCID: PMC9500205.

8: Nehumba D, Paiero A, Tafessu H, Salters K, Moore D, Lima VD. Household food insecurity, sense of community belonging, and access to a regular medical doctor as mediators in the relationship between mood and/or anxiety disorders and self-rated general health in Canada between 2011 and 2016: a serial cross-sectional analysis. *Can J Public Health*. 2022 Dec;113(6):944-954. doi: 10.17269/s41997-022-00658-0. Epub 2022 Jun 28. PMID: 35764860; PMCID: PMC9663790.

9: Sang JM, Cui Z, Wang L, Bacani N, Lachowsky NJ, Lal A, Card KG, Roth EA, Montaner JSG, Howard T, Hogg RS, Moore DM. Treatment interruptions and community connectedness among gbMSM living with HIV in Metro Vancouver, Canada. *AIDS Care*. 2022 Nov 7:1-9. doi: 10.1080/09540121.2022.2142927. Epub ahead of print. PMID: 36345611.

10: Shahid A, Jones BR, Yang JSW, Dong W, Shaipanich T, Donohoe K, Brumme CJ,

Joy JB, Leung JM, Brumme ZL. HIV proviral genetic diversity, compartmentalization and inferred dynamics in lung and blood during long-term suppressive antiretroviral therapy. *PLoS Pathog*. 2022 Nov 4;18(11):e1010613. doi: 10.1371/journal.ppat.1010613. PMID: 36331974; PMCID: PMC9668181.

11: Gunst JD, Pahus MH, Rosás-Umbert M, Lu IN, Benfield T, Nielsen H, Johansen IS, Mohey R, Østergaard L, Klastrop V, Khan M, Schleimann MH, Olesen R, Støvring H, Denton PW, Kinloch NN, Copertino DC, Ward AR, Alberto WDC, Nielsen SD, Puertas MC, Ramos V, Reeves JD, Petropoulos CJ, Martinez-Picado J, Brumme ZL, Jones RB, Fox J, Tolstrup M, Nussenzweig MC, Caskey M, Fidler S, Søggaard OS. Early intervention with 3BNC117 and romidepsin at antiretroviral treatment initiation in people with HIV-1: a phase 1b/2a, randomized trial. *Nat Med*. 2022 Nov;28(11):2424-2435. doi: 10.1038/s41591-022-02023-7. Epub 2022 Oct 17. PMID: 36253609.

12: Yazdani K, Salters K, Shen T, Dolguikh K, Trigg J, White RF, Closson K, Nanditha NGA, Honer WG, Vila-Rodriguez F, Lima VD, Montaner JSG, Barrios R. A 20-year population-based study of all-cause and cause-specific mortality among people with concurrent HIV and psychotic disorders. *AIDS*. 2022 Nov 1;36(13):1851-1860. doi: 10.1097/QAD.0000000000003341. Epub 2022 Jul 25. PMID: 35876651.

13: Rosás-Umbert M, Gunst JD, Pahus MH, Olesen R, Schleimann M, Denton PW, Ramos V, Ward A, Kinloch NN, Copertino DC, Escribà T, Llano A, Brumme ZL, Brad Jones R, Mothe B, Brander C, Fox J, Nussenzweig MC, Fidler S, Caskey M, Tolstrup M, Søggaard OS. Administration of broadly neutralizing anti-HIV-1 antibodies at ART initiation maintains long-term CD8⁺ T cell immunity. *Nat*

Commun. 2022 Oct 29;13(1):6473. doi: 10.1038/s41467-022-34171-2. PMID: 36309514; PMCID: PMC9617872.

14: Pico-Espinosa OJ, Hull M, MacPherson P, Grace D, Gaspar M, Lachowsky N, Mohammed S, Demers J, Kilduff M, Truong R, Tan DHS. PrEP-related stigma and PrEP use among gay, bisexual and other men who have sex with men in Ontario and British Columbia, Canada. *AIDS Res Ther.* 2022 Oct 27;19(1):49. doi: 10.1186/s12981-022-00473-0. PMID: 36303191; PMCID: PMC9615170.

15: Armstrong HL, Gitelman J, Cui Z, Bacani N, Sereda P, Lachowsky NJ, Card KG, Sang JM, Raymond HF, Montaner J, Hall D, Howard T, Hull M, Hogg RS, Roth EA, Moore DM. Virological suppression among gay, bisexual, and other men who have sex with men living with HIV in Vancouver, Canada: A longitudinal cohort study from 2012-2017. *PLoS One.* 2022 Oct 21;17(10):e0276596. doi: 10.1371/journal.pone.0276596. PMID: 36269767; PMCID: PMC9586352.

16: McClean AR, Trigg J, Cardinal C, Loutfy M, Cooper C, Kroch A, Shokoohi M, Machouf N, Thomas R, Klein MB, Kelly DV, Wong A, Sanche S, Montaner JSG, Hogg RS. Trends in Use of Combination Antiretroviral Therapy and Treatment Response from 2000 to 2016 in the Canadian Observational Cohort (CANOC): A Longitudinal Cohort Study. *Can J Hosp Pharm.* 2022 Oct 3;75(4):309-316. doi: 10.4212/cjhp.3234. PMID: 36246433; PMCID: PMC9524546.

17: Sang JM, McAllister K, Wang L, Barath J, Lal A, Parlette A, Noor SW, Apelian H, Skakoon-Sparling S, Hull M, Moore DM, Cox J, Hart TA, Lambert G, Grace D, Jollimore J, Hogg RS, Lachowsky NJ. Examining provincial PrEP coverage and

characterizing PrEP awareness and use among gay, bisexual and other men who have sex with men in Vancouver, Toronto and Montreal, 2017-2020. *J Int AIDS Soc.* 2022 Oct;25(10):e26017. doi: 10.1002/jia2.26017. PMID: 36306245; PMCID: PMC9616170.

18: Trottier H, Moore D. Managing population health risks as we learn to live with COVID-19. *Can J Public Health.* 2022 Oct;113(5):649-652. doi: 10.17269/s41997-022-00686-w. Epub 2022 Aug 15. PMID: 35969353; PMCID: PMC9377293.

19: Fonseca-Cuevas A, Nanditha NGA, Shen T, Moore DM, Lachowsky NJ, Card KG, Sang JM, Wang L, Chia J, Duailibe F, Hogg RS, Lima VD. Use of Gay Chatlines and Online Dating Platforms as Potential Mediators or Moderators in the Relationship Between Loneliness, Self-Rated Attractiveness and Human Immunodeficiency Virus Acquisition Risk Among Gay, Bisexual, and Other Men Who Have Sex With Men in Vancouver, Canada. *Sex Transm Dis.* 2022 Oct 1;49(10):706-712. doi: 10.1097/OLQ.0000000000001672. Epub 2022 Jul 7. PMID: 35794818; PMCID: PMC9481688.

20: Closson K, Nicholson V, Lee M, McLinden T, Cassidy-Matthews C, G Card K, E Marziali M, Trigg J, Wang L, Parashar S, S G Montaner J, Gibbs A, Hart TA, Kaida A, Hogg RS. Associations between psychosocial factors and antiretroviral therapy outcomes differ by gender and sexual orientation among people living with HIV in British Columbia, Canada. *AIDS Care.* 2022 Sep 28:1-10. doi: 10.1080/09540121.2022.2126959. Epub ahead of print. PMID: 36169492.

21: Nicolau IA, Shokoohi M, McBane JE, Pogany L, Popovic N, Nicholson V, Hillier S, Aran N, Brophy J, Burt K, Cox

J, de Pokomandy A, Kakkar F, Kelly D, Kerkerian G, Kogilwaimath S, Kroch A, Dias Lima V, Linthwaite B, Mbuagbaw L, McClarty L, Turvey S, Owino M, Martin C, Hogg RS, Loutfy M. A two-day workshop reviewing Canadian provincial and national HIV care cascade indicators, reporting, challenges, and recommendations. *J Assoc Med Microbiol Infect Dis Can.* 2022 Sep 27;7(3):247-268. doi: 10.3138/jammi-2022-0007. PMID: 36337608; PMCID: PMC9629730.

22: Sang JM, Wong J, Ryan V, Cumming E, Wang L, Cui Z, Bacani N, Haag D, Lachowsky NJ, Cox J, Grace D, Otterstatter M, Morshed M, Edward J, Grennan T, Arkles J, Brownrigg B, Hogg RS, Moore DM. Examining the impacts of a syphilis awareness campaign among gay, bisexual, and other men who have sex with men (gbMSM) in British Columbia, Canada. *Can J Public Health.* 2022 Sep 26. doi: 10.17269/s41997-022-00690-0. Epub ahead of print. PMID: 36156198.

23: Azar P, Wong JSH, Mathew N, Vogel M, Perrone J, Herring AA, Krausz RM, Montaner JSG, Greenwald MK, Maharaj AR. 48-hour Induction of Transdermal Buprenorphine to Sublingual Buprenorphine/Naloxone: The IPPAS Method. *J Addict Med.* 2022 Sep 23. doi: 10.1097/ADM.0000000000001072. Epub ahead of print. PMID: 36149002.

24: Mwimanzi F, Lapointe HR, Cheung PK, Sang Y, Yaseen F, Umvilighozo G, Kalikawe R, Datwani S, Omondi FH, Burns L, Young L, Leung V, Agafitei O, Ennis S, Dong W, Basra S, Lim LY, Ng K, Pantophlet R, Brumme CJ, Montaner JSG, Prystajeky N, Lowe CF, DeMarco ML, Holmes DT, Simons J, Niikura M, Romney MG, Brumme ZL, Brockman MA. Older Adults Mount Less Durable Humoral Responses to Two Doses of COVID-19 mRNA Vaccine but Strong

Initial Responses to a Third Dose. *J Infect Dis.* 2022 Sep 21;226(6):983-994. doi: 10.1093/infdis/jiac199. PMID: 35543278; PMCID: PMC9129202.

25: Lapointe HR, Mwimanzi F, Cheung PK, Sang Y, Yaseen F, Kalikawe R, Datwani S, Waterworth R, Umvilighozo G, Ennis S, Young L, Dong W, Kirkby D, Burns L, Leung V, Holmes DT, DeMarco ML, Simons J, Matic N, Montaner JSG, Brumme CJ, Prystajeky N, Niikura M, Lowe CF, Romney MG, Brockman MA, Brumme ZL. Serial infection with SARS-CoV-2 Omicron BA.1 and BA.2 following three-dose COVID-19 vaccination. *Front Immunol.* 2022 Sep 6;13:947021. doi: 10.3389/fimmu.2022.947021. PMID: 36148225; PMCID: PMC9485663.

26: Hernández Cordero AI, Yang CX, Yang J, Li X, Horvath S, Shaipanich T, MacIsaac J, Lin D, McEwen L, Kobor MS, Guillemi S, Harris M, Lam W, Lam S, Obeidat M, Novak RM, Hudson F, Klinker H, Dharan N, Montaner J, Man SFP, Kunisaki K, Sin DD, Leung JM; INSIGHT START Pulmonary and Genomic Substudy Groups. The relationship between the epigenetic aging biomarker “grimage” and lung function in both the airway and blood of people living with HIV: An observational cohort study. *EBioMedicine.* 2022 Sep;83:104206. doi: 10.1016/j.ebiom.2022.104206. Epub 2022 Aug 6. PMID: 35944348; PMCID: PMC9379521.

27: Vorobyova A, Marante A, Cardinal C, Magagula P, Lyndon S, Braley M, Inglis K, Parashar S. Finding the Balance: Embracing the Two-Eyed Seeing Approach to Understand what Cultural Safety in Care Means to Older Adults Living with HIV. *J Appl Gerontol.* 2022 Sep;41(9):2063-2073. doi: 10.1177/07334648221100803. Epub 2022 May 17. PMID: 35582747.

28: Vorobyova A, Braley MS, Burgess H, Grieve S, Lyndon S, Wesseling T, Parashar S. Depressive symptoms among people living with HIV in permanent supportive housing: Findings from a community-based participatory study in Vancouver, Canada. *J Community Psychol.* 2022 Sep;50(8):3778-3791. doi: 10.1002/jcop.22871. Epub 2022 May 17. PMID: 35579573.

29: 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.* 2022 Nov 6:1-17. doi: 10.1080/13691058.2022.2139414. Epub ahead of print. PMID: 36336339.

30: McClymont E, Albert AY, Wang C, Dos Santos SJ, Coutlée F, Lee M, Walmsley S, Lipsky N, Loutfy M, Trottier S, Smaill F, Klein MB, Yudin MH, Harris M, Wobeser W, Hill JE, Money DM; CTN 236 HPV in HIV Study Team. Vaginal microbiota associated with oncogenic HPV in a cohort of HPV-vaccinated women living with HIV. *Int J STD AIDS.* 2022 Aug;33(9):847-855. doi: 10.1177/09564624221109686. Epub 2022 Jul 1. PMID: 35775280; PMCID: PMC9388949.

31: Vorobyova A, Van Tuyl R, Cardinal C, et al. Obstacles and Pathways on the Journey to Access Home and Community Care by Older Adults Living With HIV/AIDS in British Columbia, Canada: Thrive, a Community-Based Research Study. *Home Health Care Management & Practice.* 2022;0(0). doi:10.1177/10848223221130504

32: Vorobyova, Anna & Van Tuyl, Rana & Cardinal, Claudette & Marante, Antonio

& Magagula, Patience & Lyndon, Sharyle & Parashar, Surita. (2022). "I'm positively positive": Beyond individual responsibility for resilience amongst older adults living with HIV. 2. 100192. 10.1016/j.ssmqr.2022.100192.

Reports, Guidelines & Policy Updates

DRUG TREATMENT PROGRAM MONTHLY REPORTS

March 2022 (released October 2022)
April 2022 (released October 2022)
May 2022 (released November 2022)
June 2022 (released November 2022)
July 2022 (released December 2022)
August 2022 (released December 2022)
September 2022 (released December 2022)

PREP SEMI-ANNUAL REPORT FOR BRITISH COLUMBIA

Second Quarter 2022

GREEN OFFICE INITIATIVES

Bike Rack installed by City of Vancouver in front of 611 Powell St.



BRITISH COLUMBIA
CENTRE *for* EXCELLENCE
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