



BRITISH COLUMBIA
CENTRE *for* EXCELLENCE
in HIV/AIDS



Providence
Health Care

BC CENTRE FOR EXCELLENCE IN HIV/AIDS

KEY OUTPUTS, RESEARCH, POLICY & INNOVATION



“It is inexcusable that we are still seeing rising rates of new HIV infections in Canada. We therefore call on jurisdictions across the country and abroad to implement Treatment as Prevention plus targeted Pre-Exposure Prophylaxis to optimize and accelerate the control of HIV/AIDS, and thereby reach the goal of an HIV-free generation”

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

Excerpt from *Vancouver is Awesome* article “B.C. doctor says ‘inexcusable’ to see rising rates of HIV infections in Canada” published August 2, 2024

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GRANTS, AWARDS & FUNDING



BC-CfE 2024 QUARTERLY REPORT | Q2

Drs. Zabrina Brumme & Viviane Lima

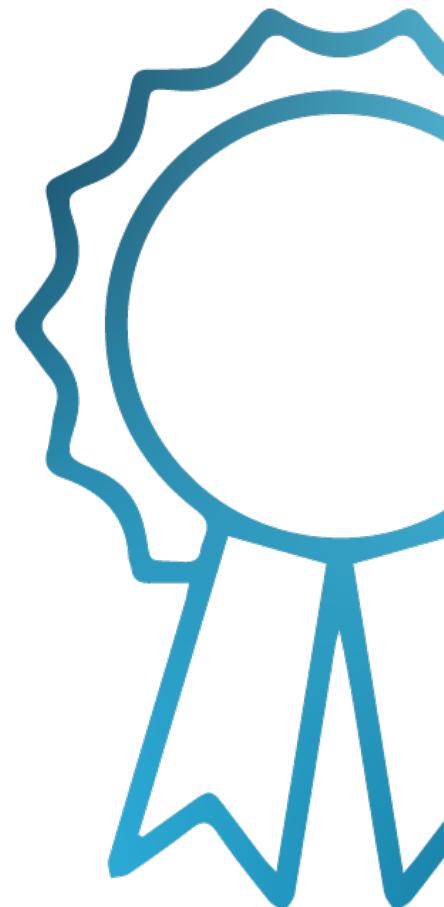
“Persistent Low-Level HIV Viremia During Antiretroviral Therapy: Origins and Clinical Consequences”
Canadian Institutes of Health Research Project Grant
\$1,125,000 over five years

Dr. Julio Montaner

King Charles III Coronation Medal
Presented by Premier of BC, Hon. David Eby

Dr. Julio Montaner

Charles Gauthier Lifetime Achievement Award
Presented by the Downtown Vancouver Business Association



PRESENTATIONS & EDUCATIONAL SESSIONS



PRESENTATIONS & EDUCATIONAL SESSIONS

BC-CfE Journal Clubs

Persistence and Clonal Expansion of HIV-infected Cells in Anatomic Compartments During Long-Term Antiretroviral Therapy

Dr. Frank Maldarelli
August 8, 2024

HIV/AIDS Webinar Learning Series

The RNA Revolution: From Dark Matter to Major Therapeutic Breakthroughs

Dr. Amber Paulson
September 25, 2024

BC-CfE Hope to Health Learning Series

Connecting Spirituality to Healthcare

Ryan Giesbrecht
August 21, 2024

Navigating Community Support Networks: Introduction to a Downtown Eastside Resource

Sarah Kelly & Grace Sykes
September 18, 2024

BC-CfE Update

BC-CfE Update : Taking the Pulse of the Global HIV/AIDS Pandemic

September 20, 2024

Presenters:

Drs. Viviane Lima, Junine Toy, Jeffrey Joy, Brian Williams, Jonathan Mermin, Rebecca Bunnell, Emily Kainne Dobuko, Reuben Granich, Julio Montaner

Moderators:

Drs. Val Montessori & Peter Phillips

PRESENTATIONS & EDUCATIONAL SESSIONS

External Presentations

25th International AIDS Conference - Munich, Germany (July 22-26, 2024)

Oral Presentations

Simplifying PrEP: Is monitoring needed?

Dr. Junine Toy

Poster Presentations

Implementing a phylogenetic approach to infer the integration dates of hypermutated proviruses persisting during ART

Aniqa Shahid

Factors associated with rapid antiretroviral therapy (ART) initiation following HIV diagnosis in British Columbia

Rory McKerchar

Housing instability impacts all-cause and substance-involved mortality among people with HIV in British Columbia, Canada

Claudette Cardinal

Investigation of the sociodemographic, clinical, and immunogenetic factors influencing HIV reservoir size and total proviral load during ART

Maggie Duncan

Systematic use of HIV PrEP medication refill notifications in a population-based PrEP program in British Columbia, Canada

Raquel Espinoza

Perceived side effects and cost remain barriers to use of HIV pre-exposure prophylaxis amongst men who have sex with men (MSM) in Canada

Dr. Mark Hull

Doxycycline for bacterial sexually transmitted infection prevention in British Columbia, Canada

Dr. Junine Toy

Other Presentations

Molecular epidemiology of HIV in BC: quarterly phylogenetic monitoring update

BC Phylogenetic Monitoring Committee

Dr Jeffrey Joy

July 25, 2024

HIV molecular epidemiology in British Columbian and Canada

Presentation to Australian H2Seq Initiative

Dr Jeffrey Joy

August 1, 2024

Primer on HIV monitoring for public health in British Columbia and Canada

Presentation to Public Health Ontario

Dr. Jeffrey Joy

August 8, 2024

Insights into HIV case comparisons in Saskatchewan

Presentation to Saskatchewan Public Health

Dr Jeffrey Joy

September 13, 2024

Quarterly update on molecular epidemiology and phylogenetic monitoring of HIV in Saskatchewan

Saskatchewan Phylogenetic Monitoring

Initiative

Dr. Jeffrey Joy

September 27, 2024

Whole genome sequencing applied to outpatient sentinel surveillance reveals substantial intrasubtypic reassortment among A(H3N2) viruses: 2021/22 to 2023/24 seasons, Canada

OPTIONS XII for the Control of Influenza Conference. Brisbane, Australia

Dr. Jeffrey Joy

September 30, 2024

PEER-REVIEWED JOURNAL ARTICLES & BOOK PUBLICATIONS

PUBLICATIONS

PUBLICATIONS

1: Lee GQ, Khadka P, Gowanlock SN, Copertino DC Jr, Duncan MC, Omondi FH, Kinloch NN, Kasule J, Kityamuweesi T, Buule P, Jamiru S, Tomusange S, Anok A, Chen Z, Jones RB, Galiwango RM, Reynolds SJ, Quinn TC, Brumme ZL, Redd AD, Prodger JL. HIV-1 subtype A1, D, and recombinant proviral genome landscapes during long-term suppressive therapy. *Nat Commun.* 2024 Jul 2;15(1):5480. doi: 10.1038/s41467-024-48985-9. PMID: 38956017; PMCID: PMC11219899.

2: Tkachuk S, Ready E, Chan S, Hawkes J, Janzen Cheney T, Kapler J, Kreutzwiser D, Akagi L, Coombs M, Giguere P, Hughes C, Kelly D, Livingston S, Martel D, Naccarato M, Nhean S, Pozniak C, Ramsey T, Robinson L, Smith J, Swidrovich J, Symes J, Yoong D, Tseng A. Role of the pharmacist caring for people at risk of or living with HIV in Canada. *Can Pharm J (Ott).* 2024 Aug 2;157(5):218-239. doi: 10.1177/17151635241267350. PMID: 39310805; PMCID: PMC11412478.

3: Lima VD, Zhu J, Barrios R, Toy J, Joy JB, Williams BG, Granich R, Wu Z, Wong J, Montaner JSG. Longitudinal evolution of the HIV effective reproduction number following sequential expansion of treatment as prevention and pre-exposure prophylaxis in British Columbia, Canada: a population-level programme evaluation. *Lancet HIV.* 2024 Jul;11(7):e461-e469. doi: 10.1016/S2352-3018(24)00094-8. Epub 2024 Jun 4. PMID: 38848736.

4: 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 Jul 1;38(8):1120-1130. doi: 10.1097/QAD.0000000000003841. Epub 2024 Jan 22. PMID: 38224350; PMCID: PMC11139238.

5: 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 Sep;235:115710. doi: 10.1016/j.amjsurg.2024.03.006. Epub 2024 Mar 26. PMID: 38599893.

6: Luz PM, Apelian H, Lambert G, Fournigue A, Dvorakova M, Grace D, Lachowsky N, Hart TA, Moore DM, Skakoon-Sparling S, Cox J. HIV Treatment Optimism Moderates the Relationship between Sexual Risk Behavior and HIV Risk Perception among Urban HIV-negative Gay, Bisexual, and Other Men who have Sex With Men. *AIDS Behav.* 2024 Aug;28(8):2683-2694. doi: 10.1007/s10461-024-04380-5. Epub 2024 Jun 13. PMID: 38869761.

7: McLeod KE, Buxton JA, Karim ME, Martin RE, Nosyk B, Kurz M, Scow M, Felicella G, Slaunwhite AK. Receipt of Opioid Agonist Treatment in provincial correctional facilities in British Columbia is associated with a reduced hazard of nonfatal overdose in the

- month following release. *PLoS One.* 2024 Jul 10;19(7):e0306075. doi: 10.1371/journal.pone.0306075. PMID: 38985687; PMCID: PMC11236203.
- 8: Hodgson K, Bowles JM, Mansoor M, Rooke E, Bardwell G. 'I'm on the coast and I'm on methadone': A qualitative study examining access to opioid agonist treatment in rural and coastal British Columbia. *Can J Rural Med.* 2024 Jul 1;29(3):117-124. English, French. doi: 10.4103/cjrm.cjrm_56_23. Epub 2024 Aug 20. PMID: 39155634.
- 9: Marziali ME, Hogg RS, Hu A, Card KG. Social trust and COVID-19 mortality in the United States: lessons in planning for future pandemics using data from the general social survey. *BMC Public Health.* 2024 Aug 27;24(1):2323. doi: 10.1186/s12889-024-19805-y. PMID: 39192297; PMCID: PMC11348587.
- 10: Wallace HL, Wight J, Baz M, Dowding B, Flamand L, Hobman T, Jean F, Joy JB, Lang AS, MacParland S, McCormick C, Noyce R, Russell RS, Sagan SM, Snymann J, Rzeszutek GJ, Jafri MS, Bogoch I, Kindrachuk J, Rasmussen AL. Longitudinal Screening of Retail Milk from Canadian Provinces Reveals No Detections of Influenza A Virus RNA (April - July 2024): Leveraging a Newly-Established Pan-Canadian Network for Responding to Emerging Viruses. *Can J Microbiol.* 2024 Sep 27. doi: 10.1139/cjm-2024-0120. Epub ahead of print. PMID: 39332021.
- 11: Nicolau IA, Moineddin R, Brooks JD, Antoniou T, Gillis JL, Kendall CE, Cooper C, Cotterchio M, Salters K, Smieja M, Kroch AE, Price C, Mohamed A, Burchell AN. Associations of CD4 Cell Count Measures With Infection-Related and Infection-Unrelated Cancer Risk Among People With HIV. *J Acquir Immune Defic Syndr.* 2024 Aug 15;96(5):447-456. doi: 10.1097/QAI.0000000000003452. PMID: 38985442.

- 12: Alessandrini J, Cox J, de Pokomandy A, Hart TA, Grace D, Grennan T, Moore D, Lambert G, Chambers C, Deeks SL, Grewal R, Lachowsky NJ, Sauvageau C, Tan DHS, Coutlée F, Burchell AN. Prevalence of Oral Human Papillomavirus Infection Among Urban Gay, Bisexual, and Other Men Who Have Sex With Men in Canada, 2017-2019. *J Infect Dis.* 2024 Jul 23:jiae345. doi: 10.1093/infdis/jiae345. Epub ahead of print. PMID: 39041706.
- 13: Zuniga JM, Prachniak C, Policek N, Magula N, Gandhi A, Anderson J, Diallo DD, Lima VD, Ravishankar S, Acharya S, Achrekar A, Adeleke M, Aïna É, Baptiste S, Barrow G, Begovac J, Bukusi E, Castel A, Castellanos E, Cestou J, Chirambo G, Crowley J, Dedes N, Ditiu L, Doherty M, Duncombe C, Durán A, Futterman D, Hader S, Kounkeu C, Lawless F, Lazarus JV, Lex S, Lobos C, Mayer K, Mejia M, Moheno HR, d'Arminio Monforte A, Morán-Arribas M, Nagel D, Ndugwa R, Ngunu C, Poonkasetwattana M, Prins M, Quesada A, Rudniewa O, Ruth S, Saavedra J, Toma L, Wanjiku Njenga L, Williams B. IAPAC-Lancet HIV Commission on the future of urban HIV responses. *Lancet HIV.* 2024 Sep;11(9):e607-e648. doi: 10.1016/S2352-3018(24)00124-3. Epub 2024 Jul 20. PMID: 39043198.
- 14: Finlayson-Trick E, Tam C, Wang L, Dawydiuk N, Salters K, Trigg J, Pakhomova T, Marante A, Sereda P, Wesseling T, Montaner JSG, Hogg R, Barrios R, Moore DM. Access to care and impact on HIV treatment interruptions during the COVID-19 pandemic among people living with HIV in British Columbia. *HIV Med.* 2024 May 9. doi: 10.1111/hiv.13654. Epub ahead of print. PMID: 38720646.

REPORTS, GUIDELINES & POLICY UPDATES



BC-CfE 2024 QUARTERLY REPORT | Q2

Drug Treatment Program Monthly Report

March 2024 (released September 2024)

PrEP Semi-Annual Report

Second Quarter 2024

HIV Monitoring Semi-Annual Report

Second Quarter 2024



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