

Appendix 1

A province-wide HIV initiative to accelerate initiation of treatment-as-prevention and virologic suppression in British Columbia, Canada: a population-based cohort study

Ni Gusti Ayu Nanditha, BSc^{1,2}; Xinzhe Dong, MSc¹; Hiwot M. Tafessu, MSc¹; Lu Wang, MSc¹; Michelle Lu, MSc¹; Rolando Barrios, MD¹; Julio S.G. Montaner, MD^{1,2}; Viviane D. Lima, PhD^{1,2§}

¹ British Columbia Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada

² Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada

§ **Corresponding author:** Viviane D. Lima

BC Centre for Excellence in HIV/AIDS

608-1081 Burrard Street

Vancouver, BC | Canada V6Z 1Y6

Tel: 1-604-806-8796

E-mail: vlima@bccfe.ca

E-mail addresses of other authors

NGAN: dnanditha@bccfe.ca

XD: dong.hannah@hotmail.com

HMT: hiwotme83@gmail.com

LW: cwang@bccfe.ca

ML: mlu@bccfe.ca

JSGM: jmontaner@bccfe.ca

RB: rbarrios@bccfe.ca

Appendix Table 1. Linked datasets and stewards used to construct the British Columbia Seek and Treat for Optimal Prevention of HIV/AIDS (STOP HIV/AIDS or STOP) population-based cohort (1-6).

Data steward	Datasets	Description
British Columbia Centre for Disease Control	Provincial HIV/AIDS Surveillance database	A surveillance database that collates all HIV laboratory testing, new HIV diagnosis and occurrence of AIDS-defining illnesses data.
British Columbia Centre for Excellence in HIV/AIDS	Drug Treatment and Laboratory database	This dataset captures all antiretroviral dispensing data, plasma viral load testing, drug resistance testing, occurrence of AIDS-defining illnesses, approximately 85% of CD4 cell count measurements, and key patient demographic information.
British Columbia Ministry of Health	The Medical Services Plan (MSP) billing database	This dataset captures HIV and non-HIV-related inpatient and outpatient services provided by physicians and supplementary health care practitioners, as well as diagnostic procedures; and contains cost associated with claims paid through fee-for-service and the Alternative Payment Program.
	Home and Community Care database	This dataset captures a variety of services including hospice and home nursing care, adult day services, assisted living, respite care, residential and convalescent care.
	Mental Health Services database	This dataset captures utilization of mental health services including fee-for-service, institutional care, community clinics and acute care.
	Addictions Information Management Systems	This dataset captures referral to treatment for alcohol, drug or gambling addictions.
	The PharmaNet database	A real-time system, which captures all prescriptions for drugs and medical supplies dispensed from community pharmacies in BC as well as prescriptions dispensed from hospital outpatient pharmacies use at home. Note that this database does not capture antiretroviral dispensing data.
	The Client Roster or Consolidation File	This dataset captures individual demographic and geographic data. This database is also used to construct population denominators.
Canadian Institute for Health Information	The Discharge Abstract Database (DAD)	This dataset captures all discharges, transfers and deaths of in-patients and day surgery patients from acute care hospitals across BC.
British Columbia Vital Statistics Agency	The Vital Statistics database	This dataset records death information of all BC's residents.

Appendix Table 2. Indicator diseases of AIDS-defining illnesses as specified by the British Columbia Centre for Disease Control (7).

AIDS-defining illnesses	
Bacterial pneumonia, recurrent	Isosporiasis, chronic intestinal (>1 month's duration)
Candidiasis of bronchi, trachea, or lungs	Kaposi sarcoma
Candidiasis of esophagus	Lymphoma, Burkitt
Cervical cancer, invasive	Lymphoma, immunoblastic (or equivalent term)
Coccidioidomycosis (disseminated or extrapulmonary)	Lymphoma, primary, of brain
Cryptococcosis (extrapulmonary)	M. avium complex or M. kansasii, disseminated or extrapulmonary
Cryptosporidiosis, chronic intestinal (>1 month's duration)	M. tuberculosis (disseminated or extrapulmonary)
Cytomegalovirus disease (other than liver, spleen, or nodes),	M. tuberculosis (pulmonary)
Cytomegalovirus retinitis (with loss of vision)	Mycobacterium, other species or unidentified species
Encephalopathy, HIV related (dementia)	Pneumocystis carinii pneumonia
Herpes simplex: chronic ulcers (>1 month's duration)	Progressive multifocal leukoencephalopathy
Histoplasmosis, disseminated or extrapulmonary	Toxoplasmosis of brain
	Wasting syndrome attributed to HIV

Reference

1. Heath K, Samji H, Nosyk B, Colley G, Gilbert M, Hogg RS, et al. Cohort profile: Seek and treat for the optimal prevention of HIV/AIDS in British Columbia (STOP HIV/AIDS BC). *Int J Epidemiol*. 2014;43(4):1073–81.
2. British Columbia Ministry of Health [creator]. Medical services plan (MSP) payment information file; consolidation file (MSP Registration & Premium Billing); Home & Community Care (continuing care); mental health; PharmaNet. British Columbia Ministry of Health [publisher]. Data Extract. MOH (2016).
3. Canadian Institute of Health Information [creator]. Discharge abstract database (hospital separations). British Columbia Ministry of Health [publisher]. Data Extract. MOH (2016) [Internet]. Available from: <https://www2.gov.bc.ca/gov/content/health/conducting-health-research-evaluation/data-access-health-data-central>
4. British Columbia Centre for Disease Control Public Health Laboratory [creator]. HIV laboratory testing datasets (tests: ELISA, Western blot, NAAT, p24, culture). Clinical Prevention Services, British Columbia Centre for Disease Control. British Columbia Ministry of Health [publisher]. Data Extract. MOH (2016) [Internet]. Available from: <http://www.bccdc.ca/about/accountability/data-access-requests/public-health-data>
5. British Columbia Centre for Disease Control [creator]. HIV/AIDS Information System (HAISYS). Clinical Prevention Services, British Columbia Centre for Disease Control. British Columbia Ministry of Health [publisher]. Data Extract. MOH (2016) [Internet]. Available from: <http://www.bccdc.ca/about/accountability/data-access-requests/public-health-data>

6. British Columbia Vital Statistics Agency [creator]. Vital Statistics. British Columbia Ministry of Health [publisher]. Data Extract. MOH (2016) [Internet]. Available from: <https://www2.gov.bc.ca/gov/content/health/conducting-health-research-evaluation/data-access-health-data-central>
7. BC Centre for Disease Control. Acquired Immune Deficiency Syndrome (AIDS) Case Report Form. 2013 [cited 2021 Jul 16]; Available from: www.bccdc.ca