

HIV MONITORING QUARTERLY REPORT

FOR INTERIOR HEALTH

FIRST QUARTER 2016

















Foreword

As part of the BC Centre for Excellence (BC-CFE) in HIV/AIDS's mandate to evaluate the outcomes of STOP HIV/AIDS programming in BC, we have developed quarterly HIV/AIDS monitoring reports. These reports provide up-to-date data on a variety of key HIV-related surveillance and treatment indicators. Selection of these indicators was achieved through a collaborative process with various Health Authority (HA) representatives. There are six reports in total, one for each HA and one for the province of BC as a whole. In addition, there is a technical report which explains how each HIV indicator is calculated. Data used in these reports come from the British Columbia Centre for Disease Control (BCCDC), MSP billings, hospitalization data from the Discharge Abstract Database, the Sunquest Laboratory database at the Provincial Public Health Microbiology and Reference Laboratory, Providence Health Care laboratory and the BC-CFE Drug Treatment Program (DTP) Database.

The objectives of these reports are to:

- 1. Provide timely HA-specific information on key HIV indicators which will guide and inform HIV leaders and innovators in the development of future HIV interventions and programs which will ultimately lead to decreasing the burden of HIV in BC. The indicators will reflect ongoing or past successful public health interventions and highlight areas in the HIV care spectrum which require further attention and support.
- 2. Highlight limitations in our current data due to incomplete or time lagged data and to develop future strategies to improve complete and timely data capture.

These reports are produced for the benefit of individual HA's. As such, we are enthusiastic about your involvement and cooperation regarding the development of these monitoring reports. Please forward your comments and queries to Irene Day, Director of Operations at the BC-CFE at iday@cfenet.ubc.ca.

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Acknowledgements and Contributions



British Columbia Centre for Excellence in HIV/AIDS (BC-CFE): The BC-CFE is responsible for the conception, preparation and ongoing review of this quarterly report. The BC-CFE provides the data and outputs for Indicators 5 (HIV Cascade of Care), 6 (Programmatic Compliance Score), 7 (New Antiretroviral Starts), 8 (CD4 Cell Count at ART Initiation), 9 (Active and Inactive Drug Treatment Program Participants), 10 (Antiretroviral Adherence Level), 11 (Resistance Testing Results by Resistance Category), 12 (AIDS-Defining Illness), and 13 (HIV-Related Mortality). The BC-CFE database provides PVL and CD4 cell count testing data, as well as ART use. All PVL measurements in BC are performed at the St Paul's Hospital virology laboratory, thus PVL data capture is 100%. An estimated 80% of all CD4 count measurements performed in the province are captured in the BC-CFE data holdings. The STOP HIV/AIDS Technical Monitoring Committee—BC-CFE is responsible for oversight of the monitoring report. James Nakagawa wrote, compiled, edited, and published this monitoring report. Paul Sereda, Dr. Viviane Lima and Nada Gataric perform analysis of Indicators 5–13. This report was conceived and guided by Dr. Julio Montaner.



British Columbia Centre for Disease Control (BCCDC): The BCCDC provides the data and outputs for Indicator 1 (HIV Testing Episodes), Indicator 2 (HIV Testing Rate), Indicator 3 (New HIV Diagnoses), Indicator 4 (Stage of HIV at Diagnosis) and Indicator 12 (AIDS-Defining Illness). The BCCDC is the single provincial agency that centralizes all HIV surveillance through the Public Health Microbiology and Reference Laboratory, which does more than 90% of all HIV screening tests in BC and all confirmatory testing. Theodora Consolacion and Dr. Jason Wong are responsible for outputs for Indicators 1–4.

Other Data Sources:

The above databases were supplemented with:

- (I) The BC Vital Statistics database which was used to calculate Indicator 5. The HIV Cascade of Care and Indicator 13. HIV-Related Mortality.
- (II) Linkage and preparation of the de-identified individual-level database used for calculating Indicator 5. The HIV Cascade of Care was facilitated by the British Columbia Ministry of Health.
- (III) The Statistics Canada database: BC and HIV-positive population counts were acquired through the statistics Canada website to calculate HIV-specific mortality rates for Indicator 13. HIV-Related Mortality.

Membership of the STOP HIV/AIDS Technical Monitoring Committee-BC-CfE

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The Seek and Treat for Optimal Prevention (STOP) HIV/AIDS BC Provincial Program: A Note on Monitoring and Interpreting HIV Indicators

The Seek and Treat for Optimal Prevention (STOP) of HIV/AIDS programme is a provincial initiative to improve HIV diagnosis and care delivery in BC through increased HIV-specific funding to all Health Service Delivery Areas (HSDA'S) across BC. The STOP provincial programme is an expansion of a four-year STOP pilot project which was implemented in two Health Service Delivery Areas in March 2010; the Vancouver HSDA which bears the largest burden of the HIV epidemic in the province and the Northern Interior HSDA which bears a high burden of HIV-related mortality. The STOP pilot project demonstrated the urgent need for improved efforts in early diagnosis of HIV and timely initiation of antiretroviral therapy (ART) initiation.

The expansion to a province-wide programme was announced on November 30th 2013 by the BC Ministry of Health with roll out of funding beginning on April 1st, 2013. This funding is intended to be used in the implementation and evaluation of HIV-related diagnosis and care initiatives within individual HA's. Goals of the project include: 1. A reduction in the number of new HIV infections in BC; 2. Improvements in the quality, effectiveness, and reach of HIV prevention services; 3. An increase in early diagnosis of HIV; 4. A reduction in AIDs cases and HIV-related mortality.

The goals of HA-led STOP-funded initiatives are to work toward achieving these goals. To these ends some outcome measures or indicators of progress have been drafted that should be considered in the design and implementation phases of these initiatives.

HIV Testing Episodes and Rates

In this section, the number of HIV test episodes and point of care (POC) HIV tests conducted each quarter in BC is shown. In general terms the goal is to increase the number of tests performed and to maximize testing efficiency. Test episodes are allocated by region according to where the test is performed.

Indicator 1. HIV Testing Episodes

Figure 1.1 HIV Test Episodes for Interior Health

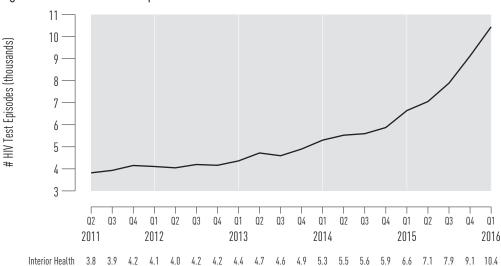


Figure 1.2 HIV Test Episodes by Gender for Interior Health 1,2



Figure 1.3 HIV Test Episodes by Age Category for Interior Health 1,2

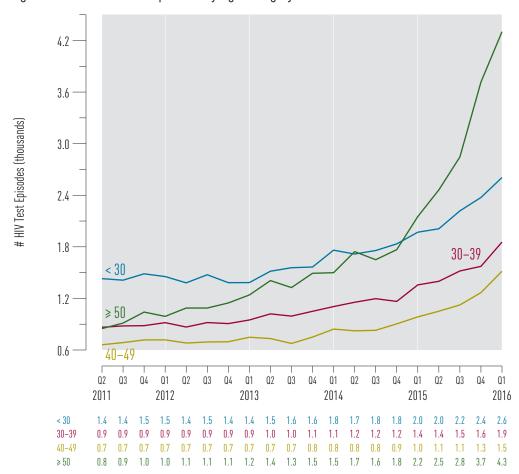
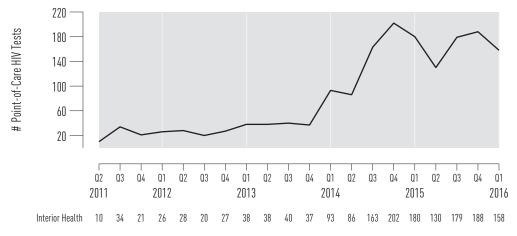


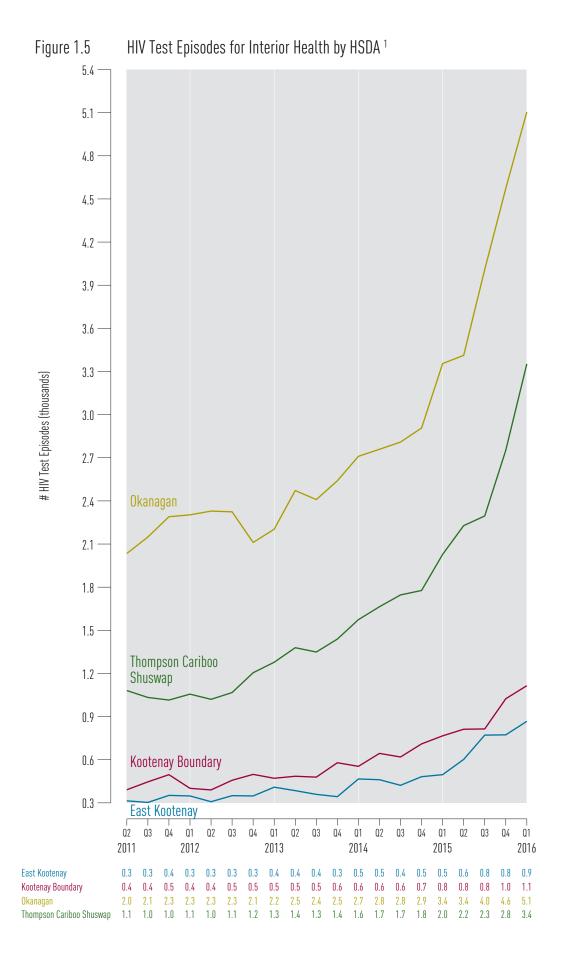
Figure 1.4 Point-of-Care HIV Tests for Interior Health

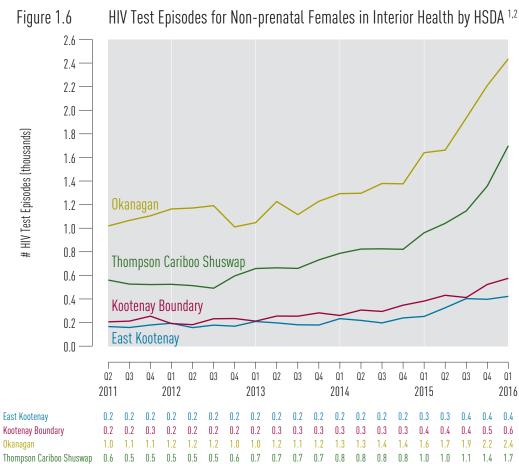


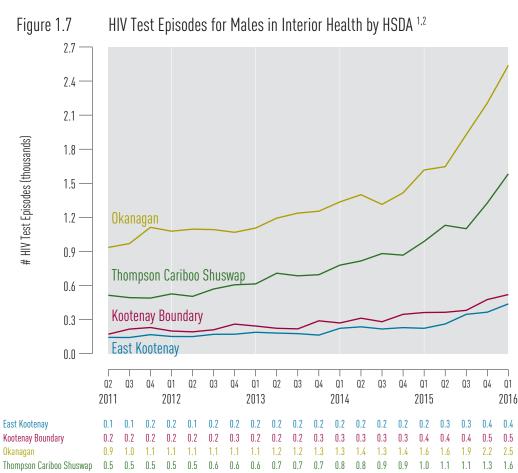
¹ Data Source: The BC Public Health Microbiology and Reference Laboratory (BCPHMRL) courtesy of the BC Centre for Disease Control (BCCDC).

Limitation: Repeat tests in individuals who test using various identifiers may not be identified and these individuals may be counted more than once.

2 Testing does not include point of care tests.







Indicator 2. HIV Testing Rates

Figure 2.1 Rate of HIV Testing for Interior Health and HSDAs ²

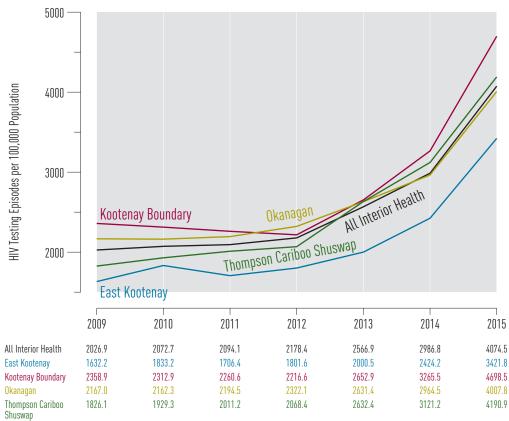


Figure 2.2 Rate of HIV Testing by Gender for Interior Health ²



7200 -6800 -6400 6000 5600 5200 -4800 -HIV Testing Episodes per 100,000 Population 4400 30-39 4000 3600 -3200 -2800 40-49 < 30 2400 2000 1600 1200 ≥ 50 800 2009 2010 2012 2013 2011 2014 2015 2333.3 2343.6 2389.3 2359.1 2647.7 3060.4 3679.2 < 30 4196.1 2592.0 4311.9 2774.7 4928.5 3180.7 5570.8 3716.1 30-39 3925.4 4129.9 6823.9 40-49 2479.2 2521.0 4906.1 1338.8 1164.0 1175.9 1755.0 2108.4 1108.1 3440.7

Figure 2.3 Rate of HIV Testing by Age Category for Interior Health 2

² Testing does not include point of care tests.

New HIV Diagnoses

Trends in HIV diagnoses by gender and exposure category are described. Interpreting HIV diagnoses must be done with consideration that trends are influenced by both changes in testing rate as well as changes in transmission rates. It is important to note that new HIV diagnoses cases and rates are not synonymous with HIV incidence as a person may have become infected with HIV long before they tested positive for HIV. However, as there is no reliable method for measuring HIV incidence, we follow trends in HIV diagnoses.

Indicator 3. New HIV Diagnoses

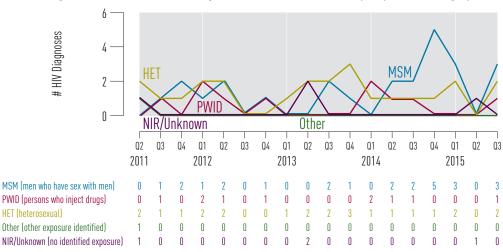
Figure 3.1 New HIV Diagnoses for Interior Health ³ # HIV Diagnoses 0 Q4 Q1 Q3 Q4 Q1 Q2 Q3 Q2 Q1 Q2 Q3 Q4 Q1 2011 2012 2013 2014 2015 2016 By Client Residence 3 5 By Provider Address

Figure 3.2 New HIV Diagnoses for Interior Health by Gender ³ 8 -# HIV Diagnoses 0 Female Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q1 2011 2015 2012 2013 2014 2016 Female

³ Data Source: BCCDC. When present, "By Provider Address" is graphed as dashed line in same colour.

Figure 3.3 New HIV Diagnoses for Interior Health by Age Category ³ # HIV Diagnoses 30-39 < 30 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q1 Q2 Q3 Q4 Q1 Q2 Q3 2011 2012 2013 2014 2015 2016 < 30 1 0 0 0 0 0 0 2 2 0 3 30-39 0 3 0 0 0 0 Λ 3 2 0 0 1 40-49 3 0 0 0 0 0 1 1 4 ≥ 50

Figure 3.4 New HIV Diagnoses for Interior Health by Exposure Category 3,4



New HIV Diagnoses for Interior Health by HSDA³ Figure 3.5 Thompson Cariboo Okanagan Shuswap 2 -Kootenay Boundary East Kootenay Q2 Q3 Q4 Q2 Q3 Q2 Q3 Q4 Q2 Q3 Q4 Q1 Q1 Q1 Q4 Q1 Q1 Q2 Q3 2012 2013 2015 2011 2014 2016 East Kootenay By Provider Address **Kootenay Boundary** 0 0 0 0 By Provider Address Okanagan By Provider Address Thompson Cariboo Shuswap 0 0 0 By Provider Address

³ Data Source: BCCDC. When present, "By Provider Address" is graphed as dashed line in same colour.

⁴ MSM=men who have sex with men; PWID=people who inject drugs; HET=heterosexual. NIR=No identified risk/exposure.

Stage of HIV Infection at Diagnosis

Classification of stage of HIV infection, in the absence of information regarding recent testing history, is reliant on clinical information available at the time of diagnosis, including first CD4+ cell count and laboratory results suggestive of acute HIV infection (Table 1). The benefits of Treatment as Prevention (TasP) are maximized when antiretroviral therapy (ART) is initiated at high CD4 cell counts. Accordingly, it is preferable that individuals newly diagnosed with HIV be in the early stages of HIV infection (stage 0 or 1) to allow for early ART initiation.

N.B. Interpretation of Stage of HIV Infection at Diagnosis should proceed with caution. Early increases in diagnosis at late stage (i.e., low CD4 counts) may represent a "catching up" of previously missed long term infected individuals rather than a trend toward diagnosis at later stage of infection.

Indicator 4. Stage of HIV Infection at Diagnosis

Table 1 Staging Classifications of Infection at Time of HIV Diagnosis Based on CDC HIV Surveillance Case Definitions

Stage	Criteria	
0	previous negati	ria met for acute HIV infection, or ve or indeterminate HIV test within t confirmed positive HIV test.
1		CD4 ≥500
2a		CD4 350-499
2b	Stage 0 and not met	CD4 200-349
3	HULHIEL	CD4 <200
Unknown		No available CD4
Updated .	2016 Q1: AIDS diagnos	is date is no longer used in this indicator.

Figure 4.1 Stage of HIV Infection at Diagnosis for Interior Health, 2011–2015 ⁵

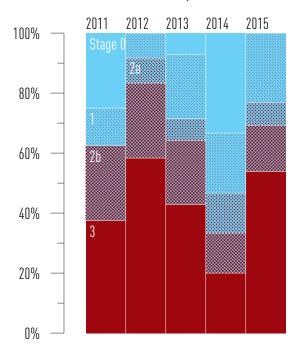
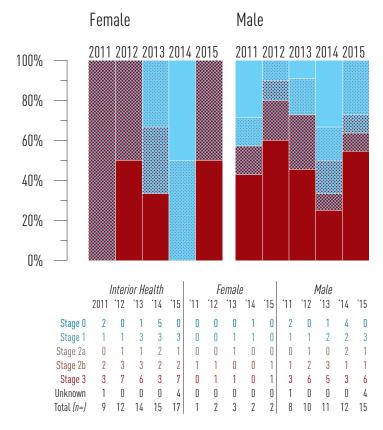


Figure 4.2 Stage of HIV Infection at Diagnosis by Gender for Interior Health, 2011–2015 ⁵



Data Source: BCCDC

Figure 4.3 Stage of HIV Infection at Diagnosis by Age Category for Interior Health, 2011–2015 ⁵

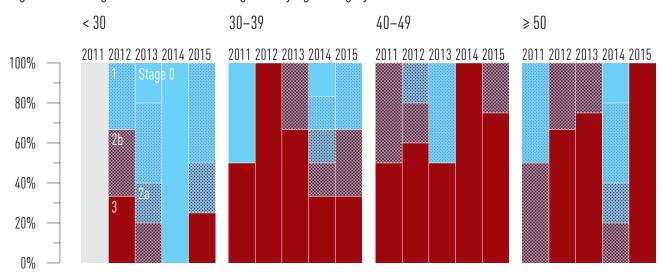
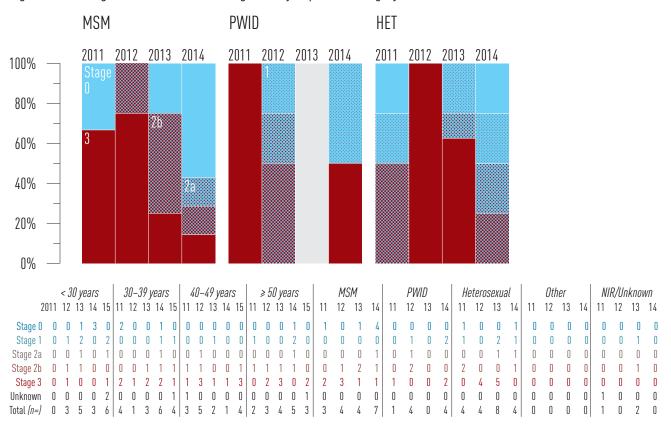


Figure 4.4 Stage of HIV Infection at Diagnosis by Exposure Category for Interior Health, 2011–2014 5.6



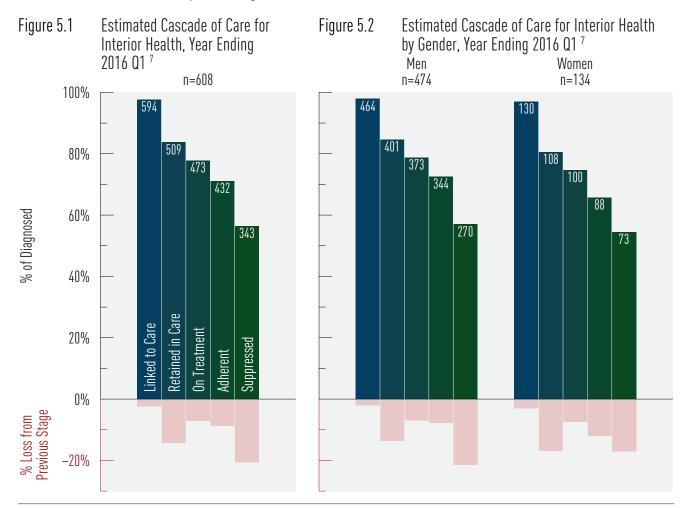
⁵ Data Source: BCCDC

⁶ MSM=men who have sex with men; PWID=people who inject drugs; HET=heterosexual. NIR=No identified risk/exposure.

HIV Cascade of Care

Indicator 5. HIV Cascade of Care

The success of seek, test, treat and retain (STTR) strategies like STOP is reliant on early diagnosis of HIV, linking newly diagnosed HIV-positive persons with ongoing care, retaining persons in HIV-care; initiating ART based on best evidenced practices and maintaining optimal ART adherence to ensure a suppressed viral load. These stages of HIV-care can be summarized as: 1. HIV diagnosis, 2. Linked to HIV care, 3. Retained in HIV care, 4. On ART, 5. Adherent to ART and 6. Achieving a suppressed VL; collectively, they are referred to as the cascade of care. Attrition between any of these stages of HIV-care means a reduction in the potential of ART as a benefit to the HIV-positive individual and as an HIV transmission prevention method on a population level. Thus, when interpreting trends in the cascade of care, we strive to see increases along each step of the cascade of care (i.e. reduced attrition) with the ultimate goal being 100% within each stage of the cascade. Monitoring the Cascade of Care provides a picture as to where deficiencies lie in the delivery and uptake of HIV-care. In this section we present the cascade of care for the period 2015 Q2–2016 Q1 in Interior Health and stratified by sex and age.

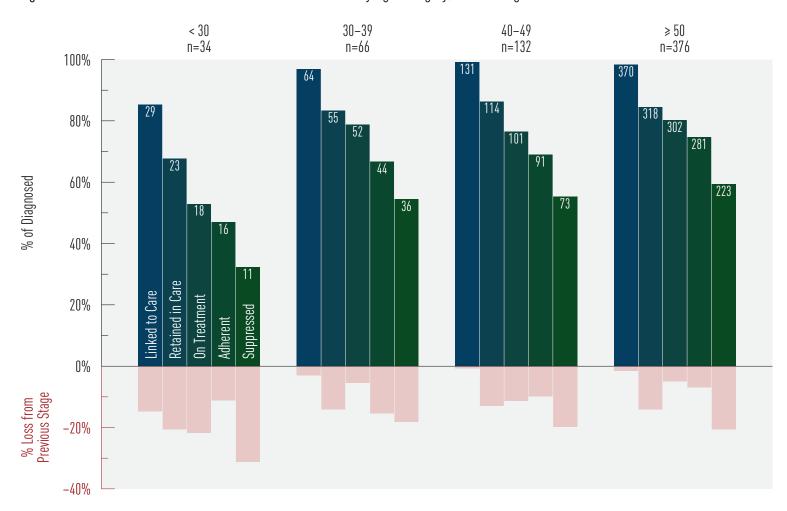


- 7 Data is for the period 2015 Q2-2016 Q1. Data Sources:
 - i British Columbia Centre for Excellence Drug Treatment Program (DTP) Database (ARV use, VL and CD4 count).
 - ii Administrative data (ex. MSP billings; hospitalization data from the Discharge Abstract Database (DAD)).

Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

NB: Transgender have been assigned to their biological sex.

Figure 5.3 Estimated Cascade of Care for Interior Health by Age Category, Year Ending 2016 Q1 8



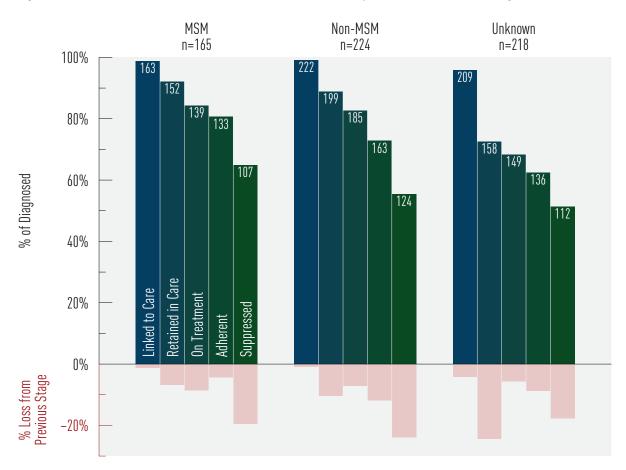
Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

⁸ Data is for the period 2015 Q2-2016 Q1. Data Sources:

i British Columbia Centre for Excellence Drug Treatment Program (DTP) Database (ARV use, VL and CD4 count).

ii Administrative data (ex. MSP billings; hospitalization data from the Discharge Abstract Database (DAD)).





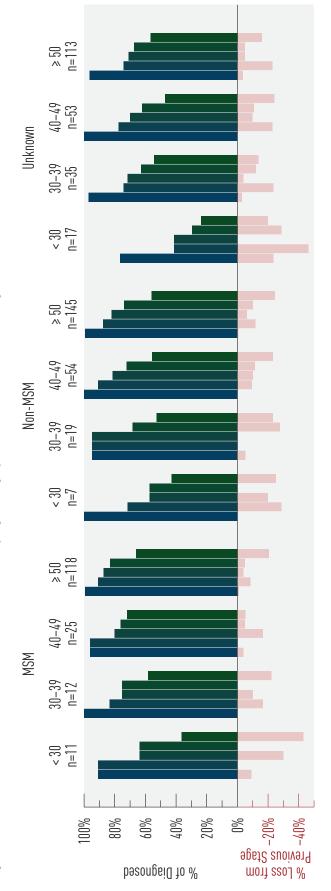
Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

⁹ Data is for the period 2015 Q2-2016 Q1. Data Sources:

i British Columbia Centre for Excellence Drug Treatment Program (DTP) Database (ARV use, VL and CD4 count).

ii Administrative data (ex. MSP billings; hospitalization data from the Discharge Abstract Database (DAD)).

Figure 5.5 Estimated Cascade of Care for Interior Health by Age Category and MSM Status, Year Ending 2016 Q1 9



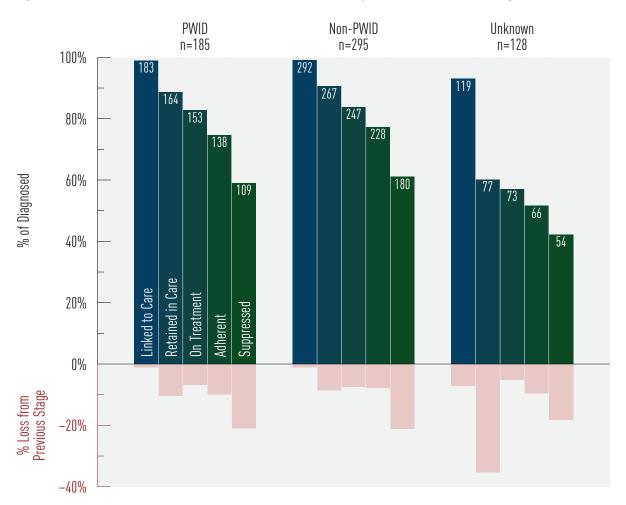
Data is for the period 2015 Q2-2016 Q1. Data Sources:

Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

British Columbia Centre for Excellence Drug Treatment Program (DTP) Database (ARV use, VL and CD4 count).

ii Administrative data (ex. MSP billings; hospitalization data from the Discharge Abstract Database (DAD)).





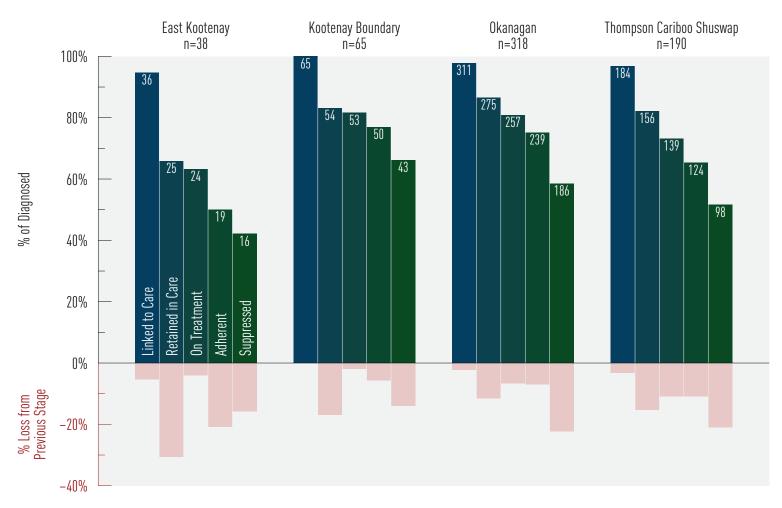
Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

⁹ Data is for the period 2015 Q2-2016 Q1. Data Sources:

i British Columbia Centre for Excellence Drug Treatment Program (DTP) Database (ARV use, VL and CD4 count).

ii Administrative data (ex. MSP billings; hospitalization data from the Discharge Abstract Database (DAD)).

Figure 5.7 Estimated Cascade of Care for Interior Health by HSDA, Year Ending 2016 Q1 9



Data Sources:

Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

⁹ Data is for the period 2015 Q2-2016 Q1.

i British Columbia Centre for Excellence Drug Treatment Program (DTP) Database (ARV use, VL and CD4 count).

ii Administrative data (ex. мsp billings; hospitalization data from the Discharge Abstract Database (DAD)).

Programmatic Compliance Score

Indicator 6. Programmatic Compliance Score (PCS)

The Programmatic Compliance Score (PCS) is a summary measure of risk of future death, immunologic failure and virologic failure from all causes for people who are starting ART for the first time. It is composed of patient- and physician-driven effects. PCs scores range from o−6 with higher scores indicative of poorer health outcomes and greater risk of death. Table 1 provides mortality, immunologic failure and virologic failure probabilities for given PCs scores. We interpret an individual with a PCs≥4 as being 22 times more likely to die, almost 10 times more likely to have immunologic failure and nearly 4 times as likely to demonstrate virologic failure compared to those individuals with a PCs score of o. A detailed description of how the PCs score is calculated and its validation can be found in the technical report. In short, PCs scores are calculated by summing the results (yes=1, no=0) of six un-weighted non-performance indicators based on IAS−USA treatment guidelines:

- having <3 CD4 cell count tests in the first year after starting antiretroviral therapy (ART);
- 2. having <3 plasma viral load (VL) tests in the first year after starting ART;
- 3. not having drug resistance testing done prior to starting ART;
- 4. starting on a non-recommended ART regimen;
- 5. starting therapy with CD4<200 cells/μL; and
- 6. not achieving viral suppression within 9 months since ART initiation.

In this section we provide PCS scores and their components over time for the province of BC. A decline to 0%, (i.e., all individuals having a score of o) is the eventual goal.

Table 2. Probability of Mortality, Immunologic Failure and Virologic Failure based on the Programmatic Compliance Score

Programmatic Compliance Score	Mortality Risk Ratio (95% Confidence Interval)	Immunologic Failure Risk Ratio (95% CI)	Virologic Failure Risk Ratio (95% CI)
·			
O (Best score)	1 (-)	1 (-)	1 (-)
1	3.81 (1.73-8.42)	1.39 (1.04–1.85)	1.32 (1.05–1.67)
2	7.97 (3.70–17.18)	2.17 (1.54–3.04)	1.86 (1.46–2.38)
3	11.51 (5.28–25.08)	2.93 (1.89–4.54)	2.98 (2.16–4.11)
4 or more (Worst score)	22.37 (10.46–47.84)	9.71 (5.72–16.47)	3.80 (2.52–5.73)

Reference: Lima VD, Le A, Nosyk B, Barrios R, Yip B, et al. (2012) Development and Validation of a Composite Programmatic Assessment Tool for HIV Therapy. PLoS ONE 7(11): e47859. doi:10.1371/journal.pone.0047859

Figure 6.1 PCS Components for Interior Health, 2014 Q2-2016 Q1 10

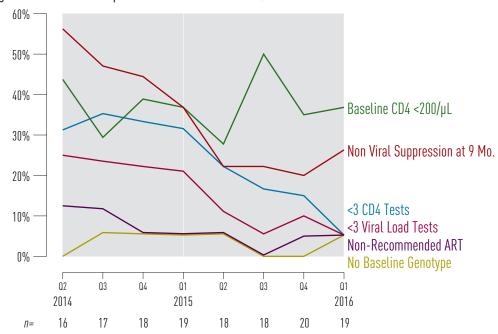
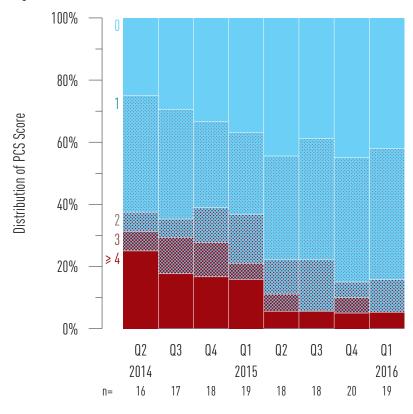


Figure 6.2 Historical Trends for PCS Score for Interior Health, 2014 Q2-2016 Q1 10,11



Data Source: British Columbia Centre for Excellence Drug Treatment Program (DTP) Database. Limitations: CD4 cell count capture is approximately 80%.

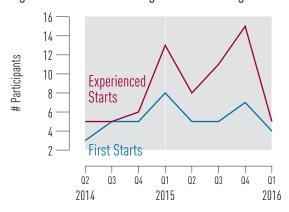
¹¹ Each quarter's data is calculated as the sum of the 4 quarters leading up to it. e.g. 2013 Q1 is calculated from 2012 Q2 – 2013 Q1. NB: A score of o is the best score and a score of 4 or more is the worst score.

Antiretroviral Uptake

In this section we present trends in ART uptake, the number and proportion of new HIV treatment initiations and the number of active and inactive DTP participants. Trends in ART uptake should be interpreted under the consideration of changing BC HIV treatment guidelines. BC HIV treatment guidelines are updated regularly by the BC-CFE Therapeutic Guidelines Committee and reflect those of the International AIDS Society. Most recent changes were made in 2012 and HIV treatment is now recommended for all HIV-positive adults regardless of CD4 cell count; as evidence demonstrates that early initiation of HIV treatment maximizes both the individual's health outcomes as well as the potential of ART as a form of HIV transmission prevention at a population level. As such, trends in the number and proportion of persons on ART and new ART starts (in both naïve and experienced persons) are expected to increase over time at higher CD4 cell counts.

Indicator 7. New Antiretroviral Therapy Starts in Interior Health

Figure 7 BC-CfE Drug Treatment Program Enrollment: New ART Participants in Interior Health, 2014 Q2-2016 Q1 12



Indicator 8. CD4 Cell Count at ART Initiation

Figure 8 CD4 Cell Count at ART Initiation of ART-Naïve DTP Participants in Interior Health, 2014 Q2–2016 Q1 13

The majority of cells in this figure have $n \le 5$, which is considered statistically insignificant as well as a possible risk to patient privacy. For this reason, this figure has been omitted. Authorized parties may contact the British Columbia Centre for Excellence in HIV/AIDS to obtain this information.

Data Source: Drug Treatment Program Database

Limitation: DTP participants are designated to an HA based on most current residence provided by the participant.

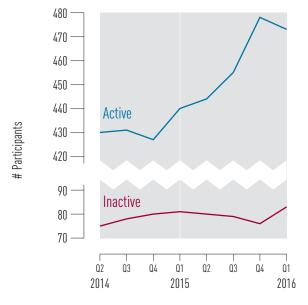
¹³ Data Source: Drug Treatment Program Database Limitations: CD4 cell count data is approximately 80% complete.

Indicator 9. Active and Inactive DTP Participants

Table 3. Distribution of People on ART for Interior Health, 2016 Q1 14

Age	< 30	22
	30-39	55
	40-49	105
	≥ 50	291
Gender	Male	375
	Female	98
Exposure	MSM	143
	PWID	149
Total		473

Figure 9 Active and Inactive DTP Participants for Interior Health, 2014 Q2–2016 Q1 15



14 Data Source: Drug Treatment Program Database Limitation: DTP participants are designated to an HA based on most current residence provided by the participant.

Definition:

'On antiretroviral therapy' defined as being on treatment in the current quarter

15 Active DTP participants: An individual who has had medication prescribed at least once in the preceding quarter.

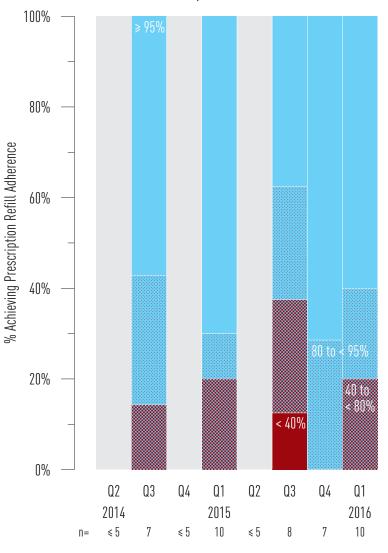
Inactive DTP participants: Persons no longer prescribed drugs through the HIV/AIDS Drug Treatment Program in the last quarter.

Antiretroviral Adherence Level

In this section we present trends in prescription refill adherence levels for individuals in their first year of treatment. Given that the benefits of ART are compromised in the presence of imperfect ART adherence, we expect to see the proportion of persons on ART achieving near perfect adherence (ie. \geq 95%) to increase with time. Furthermore, it is important that trends in the proportion of ART users achieving prescription refill adherence of \geq 95% keep pace with new ART starts and increase among those continuing on ART.

Indicator 10. Antiretroviral Adherence

Figure 10 Distribution of Individuals by Adherence Level in 1st Year of Therapy, Based on Pharmacy Refill Compliance for Interior Health, 2014 Q2–2016 Q1 ¹⁶



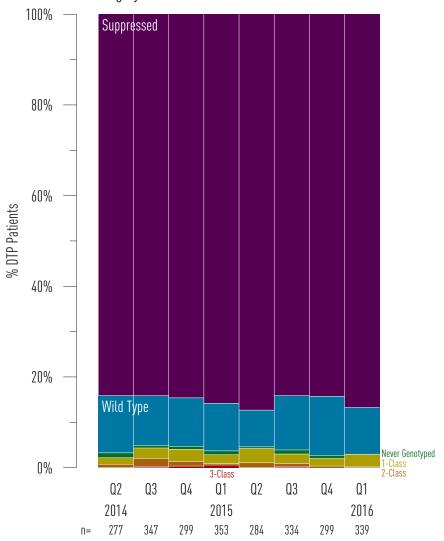
¹⁶ Data Source: Drug Treatment Program Database Limitation: Prescription refill adherence is used as a proxy for patient adherence.

Resistance Testing and Results

Indicator 11. Resistance Testing and Results

In this section, we present trends in cumulative resistance testing by resistance category: Suppressed (where a DTP participant's viral load is too low to be genotyped); Wild Type (where no HIV treatment resistances were discovered), Never Genotyped, and Resistances to one, two, three, or four HIV treatment classes. Resistance testing prior to ART initiation is recommended in the BC HIV treatment primary care guidelines. Thus, it is expected that trends over time should find all persons enrolled in the DTP to have been genotyped. Trends over time should also show an increase in the proportion of DTP participants achieving a suppressed status and an increase in resistance testing should not lead to an increase in the number of ART resistances occurring.

Figure 11 Cumulative Resistance Testing Results by Resistance Category for Interior Health, 2014 Q2–2016 Q1 ¹⁷



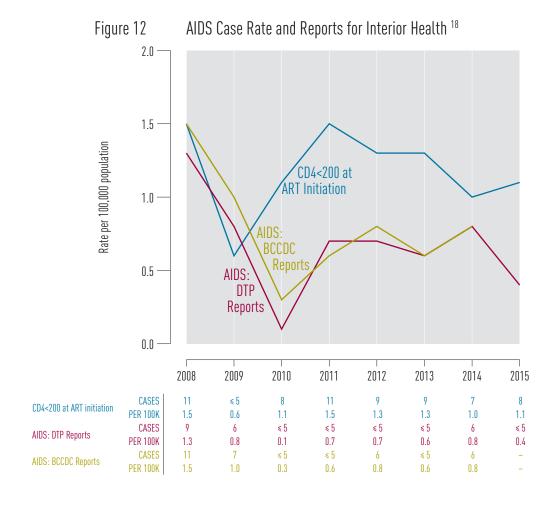
¹⁷ Data Source: Drug Treatment Program Database

Limitation: DTP participants are designated to a HA based on most current residence provided by the participant.

AIDS-Defining Illness

Indicator 12. AIDS-Defining Illness

Improvements in ART and the expansion of ART province-wide has led to very low numbers of recorded AIDS cases across BC. However, interpreting trends in AIDS cases is challenging as AIDS reporting is passive in BC and it is likely that they are under-reported across all Health Authorities. In addition to under-reporting, methods of reporting AIDS cases are inconsistent across HA's and do not truly reflect the current reality of new AIDS diagnoses. Efforts will need to be made to improve under- and inconsistent reporting of AIDS cases across all HA's. The table below shows AIDS cases using three definitions. First, AIDS cases were defined as the number of physician-reported AIDS defining illness (ADI) in a given year. AIDS case reporting is a passive process and physicians can voluntarily report AIDS cases to the BCCDC or DTP. As such, we have plotted both BCCDC reports and DTP reported AIDS cases. We also show the proportion of persons initiating ART with a CD4<200 cells/µL.



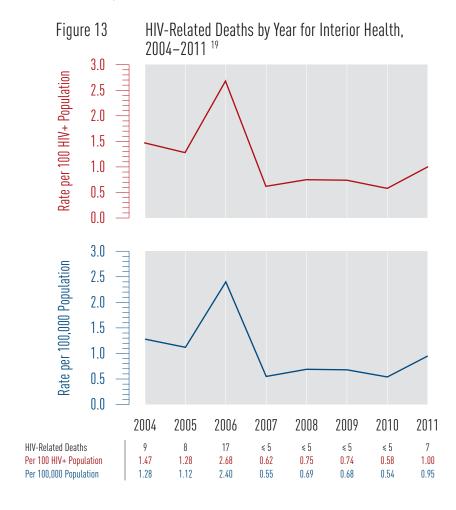
Data Source: DTP AIDS cases are obtained from the Drug Treatment Program Database; BCCDC AIDS cases are obtained from the BCCDC; CD4<200 at ART initiation data came from the DTP database.

Limitation: AIDs case reporting was investigated using 3 definitions: First, using AIDs cases reported in AIDs case report forms from the DTP; Second, using AIDs cases reported via the BCCDC and third, using a CD4 cell count of <200 cells/µL at time of ART initiation using DTP data. AIDs case reporting is passive in BC, thus; AIDs case reporting is not well captured. The DTP sends out AIDs reporting forms to physicians annually. The BCCDC uses DTP AIDs case reports as well as physician AIDs case reports made directly to the BCCDC. Interpreting AIDs case reports should be done with these limitations in mind. AIDs data is updated annually as very few AIDs cases reports are reported in general and trends would be difficult to notice if reported quarterly.

HIV-Related Mortality

Indicator 13. HIV-Related Mortality

Evidence indicates that individuals who initiate treatment with recommended ART in a timely fashion may live near normal lifespans. Excess mortality among HIV positive persons is, therefore, an important measure of HIV care with a goal of minimizing HIV-related mortality in British Columbia.



Limitation:

¹⁹ Data Source: BC Vital Statistics

^{1.} DTP participants are designated to an HA based on most current residence provided by the participant.

^{2.} Mortality data is updated annually.

^{3.} The most recent available data was used.

Appendices

Indicator Episodes	1: Test (thousands)	2011 Q2	Q3	O4	2012 O1	Q2	Q3	Q4	2013 Q1	Q2	Q3	Q4	2014 Q1	Q2	Q3	Q4	2015 O1	Q2	Q3	O4	2016 Q1
Interior He	ealth	3.8	3.9	4.2	4.1	4.0	4.2	4.2	4.4	4.7	4.6	4.9	5.3	5.5	5.6	5.9	6.6	7.1	7.9	9.1	10.4
Gender	Female	2.0	2.0	2.1	2.1	2.0	2.1	2.0	2.1	2.3	2.2	2.4	2.6	2.6	2.7	2.8	3.2	3.5	3.9	4.5	5.1
	Male	1.8	1.8	2.0	2.0	1.9	2.0	2.1	2.2	2.3	2.3	2.4	2.6	2.8	2.7	2.9	3.2	3.4	3.8	4.4	5.1
	Other	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Age	< 30	1.4	1.4	1.5	1.5	1.4	1.5	1.4	1.4	1.5	1.6	1.6	1.8	1.7	1.8	1.8	2.0	2.0	2.2	2.4	2.6
	30-39	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.4	1.4	1.5	1.6	1.9
	40-49	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	1.0	1.1	1.1	1.3	1.5
	≥ 50	0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.4	1.3	1.5	1.5	1.7	1.6	1.8	2.2	2.5	2.8	3.7	4.3
POC HIV (not in the		10	34	21	26	28	20	27	38	38	40	37	93	86	163	202	180	130	179	188	158
East Koote	enay	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.5	0.5	0.4	0.5	0.5	0.6	0.8	0.8	0.9
Female		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4
Male		0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4
Kootenay	Boundary	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.8	1.0	1.1
Female		0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6
Male		0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5
Okanagan		2.0	2.1	2.3	2.3	2.3	2.3	2.1	2.2	2.5	2.4	2.5	2.7	2.8	2.8	2.9	3.4	3.4	4.0	4.6	5.1
Female		1.0	1.1	1.1	1.2	1.2	1.2	1.0	1.0	1.2	1.1	1.2	1.3	1.3	1.4	1.4	1.6	1.7	1.9	2.2	2.4
Male		0.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.3	1.4	1.6	1.6	1.9	2.2	2.5
Thompson Shuswap	Cariboo	1.1	1.0	1.0	1.1	1.0	1.1	1.2	1.3	1.4	1.3	1.4	1.6	1.7	1.7	1.8	2.0	2.2	2.3	2.8	3.4
Female		0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	1.0	1.0	1.1	1.4	1.7
Male		0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.3	1.6

Indicator 2: Rate of HIV Testing per 100,000

		2009	2010	2011	2012	2013	2014	2015
All Interior	Health	2026.9	2072.7	2094.1	2178.4	2566.9	2986.8	4074.5
East Koote	nay	1632.2	1833.2	1706.4	1801.6	2000.5	2424.2	3421.8
Kootenay E	Boundary	2358.9	2312.9	2260.6	2216.6	2652.9	3265.5	4698.5
Okanagan		2167.0	2162.3	2194.5	2322.1	2631.4	2964.5	4007.8
Thompson	Cariboo Shuswap	1826.1	1929.3	2011.2	2068.4	2632.4	3121.2	4190.9
Gender	Female	1987.3	1993.8	2041.2	2137.8	2548.3	2948.4	4104.0
	Male	1933.1	2007.8	2045.2	2170.5	2542.5	2985.2	3980.1
Age	< 30	2333.3	2343.6	2389.3	2359.1	2647.7	3060.4	3679.2
	30-39	3925.4	4129.9	4196.1	4311.9	4928.5	5570.8	6823.9
	40-49	2479.2	2521.0	2592.0	2774.7	3180.7	3716.1	4906.1
	≥ 50	1108.1	1164.0	1175.9	1338.8	1755.0	2108.4	3440.7

Indicator 3: New HIV	Diagnose	es	2011 Q2		Q4	2012 Q1	Q2	Q3	Q4	2013 Q1		Q3		2014 Q1		Q3		2015 Q1	Q2	Q3		2016 Q1
Interior Health	By Clien	t Residen	ce 4	3	3	5	5	0	2	1	4	4	4	3	4	4	6	5	1	6	4	8
	By Provi	der Addre	ss 3	2	3	5	5	0	2	1	5	4	4	3	2	4	5	5	1	6	5	8
Gender	Female		2	1	0	1	1	0	0	0	1	1	1	1	0	1	0	0	0	0	1	1
	Male		2	2	3	4	4	0	2	1	3	3	3	2	4	3	6	5	1	6	3	7
Age	< 30		1	0	0	1	1	0	1	0	0	2	2	0	1	1	2	2	0	4	2	3
	30-39		0	3	1	1	1	0	0	0	0	2	1	0	1	3	2	0	0	0	1	1
	40-49		3	0	1	2	1	0	1	0	1	0	1	1	1	0	1	1	1	2	1	4
	≥ 50		0	0	1	1	2	0	0	1	3	0	0	2	1	0	1	2	0	0	0	0
Exposure	MSM		0	1	2	1	2	0	1	0	0	2	1	0	2	2	5	3	0	3	-	_
	PWID		0	1	0	2	1	0	1	0	0	0	0	2	1	1	0	0	0	1	-	_
	HET		2	1	1	2	2	0	0	1	2	2	3	1	1	1	1	2	0	2	-	-
	Other		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
	NIR/Un	known	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	-	-
East Kootenay	By Clien	t Residen	ce 0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
	By Provi	der Addre	ss 0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0
Kootenay Boundary	By Clien	t Residen	ce 0	1	0	1	2	0	0	0	1	0	0	0	1	0	0	1	0	0	0	2
	By Provi	der Addre	ss 0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1
Okanagan	By Clien	t Residen	ce 3	0	3	1	3	0	1	1	0	3	2	2	1	2	2	1	0	4	2	4
	By Provi	der Addre	ss 2	1	3	1	4	0	1	1	1	3	2	2	0	2	3	0	0	4	3	5
Thompson Cariboo	By Clien	t Residen	ce 1	2	0	1	0	0	1	0	2	1	2	1	2	2	4	2	1	2	2	2
Shuswap	By Provi	der Addre	ss 1	1	0	1	0	0	1	0	2	1	2	1	1	2	2	3	1	1	1	2
Indicator 4: Stage of H		1		ı			,		ı		• •		ı						4.0	4.0		
Interior '11 '12 '1			nale 13'14	' 15	'11 '	M:		4 '15	5 '11		30 ye : '13		' 15		30-39 12		rs 14'1	5 '1		-49 y 2'13	ears '14	'15
Stage 0 2 0	1 5 0	0 0	0 1	0	2	0	1 -	4 (0 0	0	1	3	0	2	0	0	1	0	0 (0 0	0	0
-	3 3 3	0 0	1 1	0	1	1	2	2 3	3 0) 1	2	0	2	0	0	0	1	1	0 () 1	0	0
-	1 2 1	0 0	1 0	0	0	1	0	2	1 0	0) 1	0	1	0	0	0	1	0	0	1 0	0	0
-	3 2 2	1 1	0 0	1	1	2	3	1	1 0) 1	. 1	0	0	0	0	1	1	1	1	1 0	0	1
									1													

	11	12	13	14	15	11	12	15 1	4 15	11	12	13	14	15	11	12	13	14	15	11	12	13	14	15	11	12	13	14	15
Stage 0	2	0	1	5	0	0	0	0	1 0	2	0	1	4	0	0	0	1	3	0	2	0	0	1	0	0	0	0	0	0
Stage 1	1	1	3	3	3	0	0	1	1 0	1	1	2	2	3	0	1	2	0	2	0	0	0	1	1	0	0	1	0	0
Stage 2a	0	1	1	2	1	0	0	1	0 0	0	1	0	2	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0	0
Stage 2b	2	3	3	2	2	1	1	0	0 1	1	2	3	1	1	0	1	1	0	0	0	0	1	1	1	1	1	0	0	1
Stage 3	3	7	6	3	7	0	1	1	0 1	3	6	5	3	6	0	1	0	0	1	2	1	2	2	1	1	3	1	1	3
Unknown	1	0	0	0	4	0	0	0	0 0	1	0	0	0	4	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
Total	9	12	14	15	17	1	2	3	2 2	8	10	11	12	15	0	3	5	3	6	4	1	3	6	4	3	5	2	1	4
		> 5	0 yea	ars			Μ	ISM			Рί	WID)		F	Tete	rose	xual		Ot	her	Exp	osur	e	N	IR/I	Jnkr	nowi	1
	' 11	'12			'15	' 11			'14	'11			13	' 14	'11	'1.			' 14	'11	' 1:		13	' 14	'11	'1			' 14
Stage 0	0	0	0	1	0	1	() 1	4	0		0	0	0	1	(0	0	1	0	(0	0	0	0		0	0	0
Stage 1	1	0	0	2	0	0	(0	0	0		1	0	2	1	(C	2	1	0	(0	0	0	0		0	1	0
Stage 2a	0	0	0	1	0	0	(0	1	0		1	0	0	0	(C	1	1	0	(0	0	0	0		0	0	0
Stage 2b	1	1	1	1	0	0	1	. 2	1	0	1	2	0	0	2	(C	0	1	0	(0	0	0	0		0	1	0
Stage 3	0	2	3	0	2	2	3	1	1	1	(0	0	2	0	4	4	5	0	0	(0	0	0	0		0	0	0
Unknown	0	0	0	0	1	0	0	0	0	0		0	0	0	0	()	0	0	0	(0	0	0	1		0	0	0
Total	2	3	4	5	3	3	4	4	7	1		4	0	4	4		4	8	4	0		0	0	0	1		0	2	0

Indicator 5: HI Interior Health		Care D	IAGNOSED	LINKED	RETAINED	Oi		ADHERENT	SUPPRESSED
			608	594	509		473	432	343
Age Category			34	29	23		18	16	11
	30-39		66	64	55		52	44	36
	40-49		132	131	114		101	91	73
	≥ 50		376	370	318		302	281	223
Age Category and MSM	MSM	< 30	11	10	10		7	7	4
Status		30–39	12	12	10		9	9	7
o tutuo		40–49	25	24	24		20	19	18
		≥ 50	118	117	107		103	98	78
	Non-MSM	< 30	7	7	5		4	4	3
		30-39	19	18	18		18	13	10
		40-49	54	54	49		44	39	30
		≥ 50	145	144	127		119	107	81
	Unknown	< 30	17	13	7		7	5	4
		30-39	35	34	26		25	22	19
		40-49	53	53	41		37	33	25
		≥ 50	113	109	84		80	76	64
Gender	Male		474	464	401		373	344	270
	Female		134	130	108		100	88	73
Injection	PWID		185	183	164		153	138	109
Drug Use	Non-PWID		295	292	267		247	228	180
	Unknown		128	119	77		73	66	54
MSM Status	MSM		165	163	152		139	133	107
	Non-MSM		224	222	199		185	163	124
	Unknown		218	209	158		149	136	112
Health	East Kootenay	y	38	36	25		24	19	16
Authority	Kootenay Bou	ındary	65	65	54		53	50	43
	Okanagan		318	311	275		257	239	186
	Thompson Ca	ariboo	190	184	156		139	124	98
T. II	Shuswap		(D.CO)						
Indicator 6: Pr	ogrammatic C	Compliance Sco 2014	re (PCS)		2015				2016
		Q2	Q3	Q4	Q1	Q2	Q3		Q1
< 3 CD4 Tests		31.2%	35.3%	33.3%	31.6%	22.2%	16.7%		
< 3 Viral Load		25.0%	23.5%	22.2%	21.1%	11.1%	5.6%		
No Baseline G	• •	0.0%	5.9%	5.6%	5.3%	5.6%	0.0%	0.0%	5.3%
Baseline CD4 <	•	43.8%	29.4%	38.9%	36.8%	27.8%	50.0%	35.0%	36.8%
Non-Recomme		12.5%	11.8%	5.6%	5.3%	5.6%	0.0%	5.0%	5.3%
Non Viral supp	pression at 9 M	o. 56.2%	47.1%	44.4%	36.8%	22.2%	22.2%	20.0%	
PCS Score: 0		4	5	6	7	8	7		8
PCS Score: 1		6	6	5	5	6	7		
PCS Score: 2		1	1	2	3	2	3		
PCS Score: 3		1	2	2	1	1	0	1	0
PCS Score: 4 or	r more	4	3	3	3	1	1		
Total (n=)		16	17	18	19	18	18	20	19

Indicator 7: New D'	TP ARV Participants									
	2014	02		0.4	2015	02			0.4	2016
Timet Charles	Q2	Q3		Q4	Q1	Q2		23	Q4	Q1
First Starts	3	5		5	8	5	,	5	7	4
Experienced Starts	5	5		6	13	8	J	1	15	5
Indicator 8: CD4 Co	ell Count at ART Initia	tion for ARV	-Naïve	DTP Parti	cipants					
CD4 ≥ 500	-	-		-	1	-		-	1	_
CD4 350-499	_	_		_	2	_		_	0	_
CD4 200-349	_	_		_	2	_		_	2	_
CD4 50-199	_	_		_	0	_		_	4	_
CD4 < 50	_	_		_	2	_		_	0	_
CD4 Median (cells/µ	ιL) –	_		-	310	_		_	190	_
Total (n=)	≤ 5	≤ 5		≤ 5	7	≤ 5	≤	5	7	≤ 5
Indicator 9: Active	and Inactive DTP Parti	cipants								
Active DTP Particip		431		427	440	444	45	55	478	473
Inactive DTP Partic		78		80	81	80	7	79	76	83
Indicator 10: Antire	etroviral Adherence									
≥ 95%	-	4		_	7	_		3	5	6
80% to < 95%	_	2		_	1	_		2	2	2
40% to < 80%	_	1		_	2	_		2	0	2
< 40%	_	0		_	0	_		1	0	0
Total (n=)	≤ 5	7		≤ 5	10	≤ 5		8	7	10
Indicator 11: Pasist	ance Testing and Result	te								
Suppressed	233	292		253	303	248	28	31	252	294
Wild Type	35	38		32	37	23	4	10	39	35
Never Genotyped	3	2		2	3	1		3	2	0
1-Class	4	8		8	7	9		7	5	9
2-Class	2	6		3	1	3		2	1	1
3-Class	0	1		1	2	0		1	0	0
Total (n=)	277	347		299	353	284	33	34	299	339
Indicator 12: AIDS	-Defining Illness	2007	2008	2009	2010	2011	2012	2013	2014	2015
CD4 < 200 at	Cases	18	11	≤ 5	8	11	9	9	7	8
ART initiation	Rate per 100,000	2.6	1.5	0.6	1.1	1.5	1.3	1.3	1.0	1.1
AIDS Cases	Cases	9	9	6	≤ 5	≤ 5	≤ 5	≤ 5	6	≤ 5
(DTP Reports)	Rate per 100,000	1.3	1.3	0.8	0.1	0.7	0.7	0.6	0.8	0.4
AIDS Cases	Cases	6	11	7	≤ 5	≤ 5	6	≤ 5	6	_
(BCCDC Reports)	Rate per 100,000	0.9	1.5	1.0	0.3	0.6	0.8	0.6	0.8	_
Indicator 13: HIV-F	Palatad Mortality	2004	2005	2006	2007	2008	2009	2010	2011	
Interior Health	Clated Miditality	9	8	17	2007 ≤ 5	<u>2008</u> ≤ 5	2009 ≤ 5	<u>2010</u> ≤ 5	7	
Per 100 HIV+ Popu	lation	1.47	1.28	2.68	0.62	0.75	0.74	0.58	1.00	
Per 100,000 Populat		1.47	1.12	2.40	0.55	0.73	0.74	0.54	0.95	
rei 100,000 Populat	.1011	1.28	1.12	2.40	0.55	0.09	0.08	0.54	0.95	