

HIV MONITORING QUARTERLY REPORT

FOR INTERIOR HEALTH

THIRD QUARTER 2015

* Please see foreword

















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.

* The HIV Monitoring Quarterly Report for the third quarter of 2015 had a data error on Indicator 5 (HIV Cascade of Care). The data have been updated and the error fixed to reflect the actual numbers (Indicator 5, page 20–25).

A recent update of the POC Numbers was used in this report, as a result, 2015 Q3 data may differ from previous version. We apologize for any inconvenience.

List of Indicators

Indicator 1. Testing Episodes

Indicator 2. HIV Testing Rate

Indicator 3. New HIV Diagnoses

Indicator 4. Stage of HIV Infection at Diagnosis

Indicator 5. HIV Cascade of Care

Indicator 6. Programmatic Compliance Score (PCS)

Indicator 7. New Antiretroviral Starts

Indicator 8. CD4 Cell Count at ART Initiation

Indicator 9. Active and Inactive Drug Treatment Program Participants

Indicator 10. Antiretroviral Adherence Level

Indicator 11. Resistance Testing Results by Resistance Category

Indicator 12. AIDS-Defining Illness

Indicator 13. HIV-Related Mortality

Table of Contents

Acknowledgements and Contributions

BC Provincial STOP Program:

A Note on Monitoring and Interpreting HIV Indicators

Indicator 1	HIV Testing Episodes
Figure 1.1	HIV Test Episodes for Interior Health, 2010 Q4–2015 Q3
Figure 1.2	HIV Test Episodes for Interior Health by Gender and Prenatal Status, 2010 Q4–2015 Q3
Figure 1.3	HIV Test Episodes for Interior Health by Age Category, 2010 Q4–2015 Q3
Figure 1.4	Point-of-Care HIV Tests for Interior Health, 2010 Q4–2015 Q3
Figure 1.5	HIV Test Episodes by HSDA for Interior Health, 2010 Q4–2015 Q3
Figure 1.6	HIV Test Episodes for Non-Prenatal Females in Interior Health by Hsda, 2010 Q4–2015 Q3
Figure 1.7	HIV Test Episodes for Males in Interior Health by Hsda, 2010 Q4–2015 Q3
Indicator 2	HIV Testing Rates
Figure 2.1	Rate of HIV Testing for Interior Health and HSDA's, 2009–2014
Figure 2.2	Rate of HIV Testing for Interior Health by Gender, 2009–2014
Figure 2.3	Rate of HIV Testing for Interior Health by Age Category, 2009–2014
Indicator 3	New HIV Diagnoses
Figure 3.1	New HIV Diagnoses for Interior Health, 2010 Q4–2015 Q3
Figure 3.2	New HIV Diagnoses for Interior Health by Gender, 2010 Q4–2015 Q3
Figure 3.3	New HIV Diagnoses for Interior Health by Age Category, 2010 Q4–2015 Q3
Figure 3.4	New HIV Diagnoses for Interior Health by Exposure Category, 2010 Q4–2015 Q1
Figure 3.5	New HIV Diagnoses for Interior Health by HSDA, 2010 Q4–2015 Q3
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
Figure 4.1	Stage of HIV Infection at Diagnosis for Interior Health, 2010–2014
Figure 4.2	Stage of HIV Infection at Diagnosis for Interior Health by Gender, 2010–2014
Figure 4.3	Stage of HIV Infection at Diagnosis for Interior Health by Age Category, 2010–2014
Figure 4.4	Stage of HIV Infection at Diagnosis for Interior Health by Exposure Category, 2010–2014
Indicator 5	HIV Cascade of Care
Figure 5.1	Estimated Cascade of Care for Interior Health, Year Ending 2015 Q3

Figure 5.2	Estimated Cascade of Care for Interior Health by Gender, Year Ending 2015 Q3
Figure 5.3	Estimated Cascade of Care for Interior Health by Age Category, Year Ending 2015 Q3
Figure 5.4	Estimated Cascade of Care for Interior Health by Msm Status, Year Ending 2015 Q3
Figure 5.5	Estimated Cascade of Care for Interior Health by Age Category and Msm Status,
118410).)	Year Ending 2015 Q3
Figure 5.6	Estimated Cascade of Care for Interior Health by Pwid Status, Year Ending 2015 Q3
Figure 5.7	Estimated Cascade of Care for Interior Health by HSDA, Year Ending 2015 Q3
Indicator 6	Programmatic Compliance Score (PCS)
Table 2	Probability of Mortality Based on the Programmatic Compliance Score
Figure 6.1	Pcs Components for Interior Health, 2013 Q4–2015 Q3
	First-Year CD4 Measurement
	First-Year VL measurement
	Baseline Resistance Testing
	Recommended Antiretroviral Therapy (ART)
	Baseline CD4 ≥ 200 cells/μL
	Suppression at 9 Months
Figure 6.2	Historical Trends for Pcs Score for Interior Health, 2013 Q4-2015 Q3
Indicator 7	New Antiretroviral Therapy Starts in Interior Health
Indicator 7 Figure 7	BC-CfE Drug Treatment Program Enrollment:
Figure 7	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3
Figure 7 Indicator 8	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation
Figure 7 Indicator 8 Figure 8	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3
Figure 7 Indicator 8 Figure 8 Indicator 9	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9 Indicator 10	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3 Antiretroviral Adherence
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9 Indicator 10	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3 Antiretroviral Adherence Distribution of Individuals by Adherence Level in 1st Year of Therapy,
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9 Indicator 10 Figure 10	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3 Antiretroviral Adherence Distribution of Individuals by Adherence Level in 1st Year of Therapy, Based on Pharmacy Refill Compliance for Interior Health, 2013 Q4–2015 Q3
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9 Indicator 10 Figure 10	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3 Antiretroviral Adherence Distribution of Individuals by Adherence Level in 1st Year of Therapy, Based on Pharmacy Refill Compliance for Interior Health, 2013 Q4–2015 Q3 Resistance Testing and Results Cumulative Resistance Testing Results by Resistance Category
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9 Indicator 10 Figure 10 Indicator 11 Figure 11	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3 Antiretroviral Adherence Distribution of Individuals by Adherence Level in 1st Year of Therapy, Based on Pharmacy Refill Compliance for Interior Health, 2013 Q4–2015 Q3 Resistance Testing and Results Cumulative Resistance Testing Results by Resistance Category for Interior Health, 2013 Q4–2015 Q3
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9 Indicator 10 Figure 10 Indicator 11 Figure 11	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at Art Initiation CD4 Cell Count at Art Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on Art in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3 Antiretroviral Adherence Distribution of Individuals by Adherence Level in 1st Year of Therapy, Based on Pharmacy Refill Compliance for Interior Health, 2013 Q4–2015 Q3 Resistance Testing and Results Cumulative Resistance Testing Results by Resistance Category for Interior Health, 2013 Q4–2015 Q3 Ards-Defining Illness
Figure 7 Indicator 8 Figure 8 Indicator 9 Table 3 Figure 9 Indicator 10 Figure 10 Indicator 11 Figure 11 Indicator 12 Figure 12	BC-CfE Drug Treatment Program Enrollment: New Antiretroviral Participants for Interior Health, 2013 Q4–2015 Q3 CD4 Cell Count at ART Initiation CD4 Cell Count at ART Initiation for Interior Health, 2013 Q4–2015 Q3 Active and Inactive Drug Treatment Program (DTP) Participants Distribution of People on ART in Interior Health, 2015 Q3 Active and Inactive DTP Participants for Interior Health, 2013 Q4–2015 Q3 Antiretroviral Adherence Distribution of Individuals by Adherence Level in 1st Year of Therapy, Based on Pharmacy Refill Compliance for Interior Health, 2013 Q4–2015 Q3 Resistance Testing and Results Cumulative Resistance Testing Results by Resistance Category for Interior Health, 2013 Q4–2015 Q3 Ards-Defining Illness Aids Case Rate and Reports for Interior Health, 2007–2014

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. Ana Prado writes and compiles the monitoring report. Guillaume Colley, Dr. Viviane Lima and Nada Gataric perform analysis of Indicators 5–13. James Nakagawa is responsible for publishing and editing. 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 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

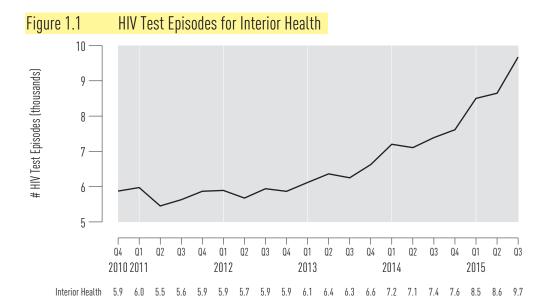
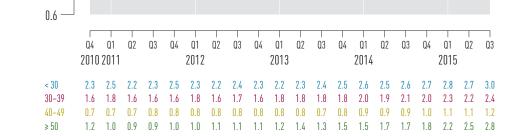
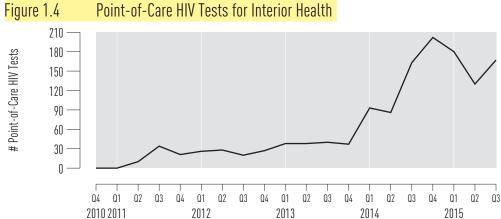


Figure 1.2 HIV Test Episodes by Gender and Prenatal Status for Interior Health ¹ 6 5 HIV Test Episodes (thousands) Female Male 3 Female (Non-prenatal) Female (Prenatal) Q4 Q1 Q4 Q4 Q2 Q3 Q4 Q4 Q1 Q2 Q3 Q2 Q3 Q1 Q2 Q3 Q1 Q1 Q2 2012 2010 2011 2013 2014 2015 Female 3.6 3.8 3.8 3.6 3.8 3.7 3.9 4.0 3.9 4.1 4.2 4.5 4.5 3.6 2.0 2.0 1.9 2.1 2.1 2.2 2.3 2.3 2.4 2.6 1.8 1.9 1.7 1.6 1.7 1.7 1.7 1.6 1.6 1.7 1.9 Female (Non-prenatal) 2.1 2.0 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 3.4 3.9

HIV Test Episodes by Age Category for Interior Health 1,2 Figure 1.3 3.2 -3.0 -2.8 2.6 < 30 2.4 HIV Test Episodes (thousands) 2.2 2.0 -30-39 1.8 -1.6 1.4 ≥ 50 1.2 -1.0 -





40-49

8.0

26 28 20 27 38 38 40

Limitations:

Interior Health

- Repeat tests in individuals who test using various identifiers may not be identified and these individuals may be counted more than once.
- In Interior Health, POC testing data are available for May 2011 forward.
- Testing does not include point of care tests.

93

163 202 180 130 167

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

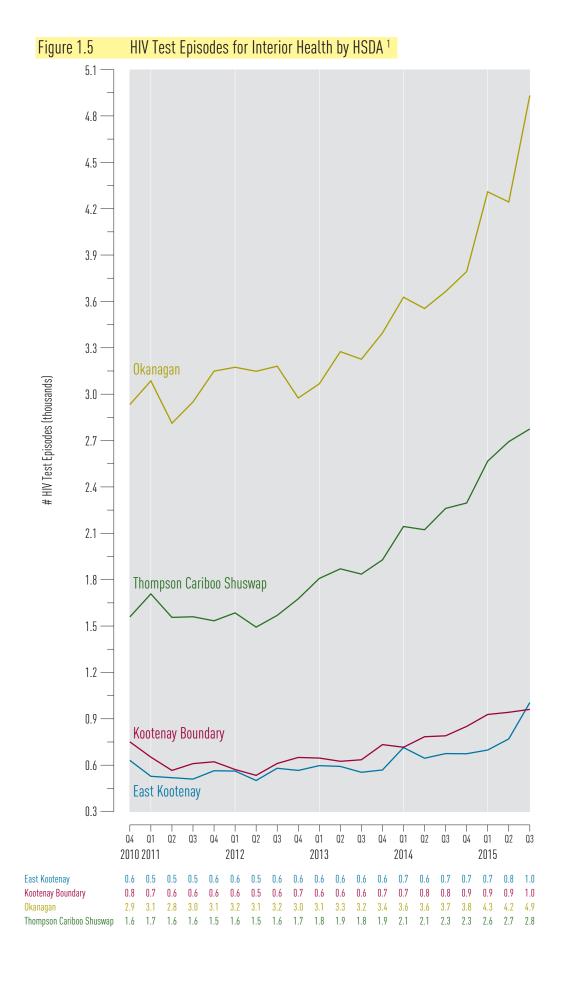
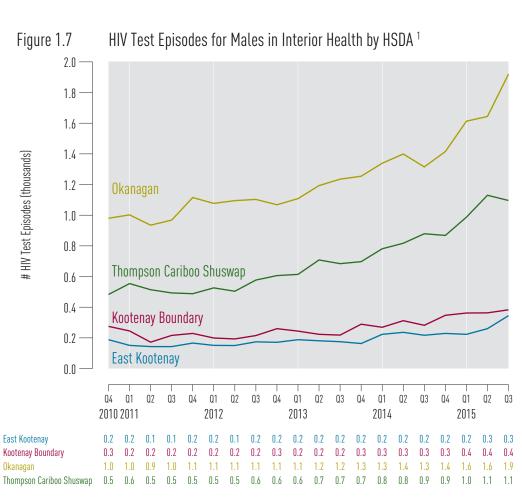


Figure 1.6 HIV Test Episodes for Non-prenatal Females in Interior Health by HSDA ¹ 2.0 1.8 1.6 # HIV Test Episodes (thousands) 1.4 -1.2 -Okanagan 1.0 0.8 Thompson Cariboo Shuswap 0.6 0.4 **Kootenay Boundary** 0.2 East Kootenay 0.0 Q4 04 Q3 Q4 Q3 Q2 Q1 Q2 Q1 Q2 Q1 Q2 Q1 2012 2013 2014 2010 2011 2015 East Kootenay 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 0.2 0.2 0.3 0.3 Kootenay Boundary 0.2 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 Okanagan 1.0 1.1 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 1.6 1.9 Thompson Cariboo Shuswap 0.5 0.6 0.6 0.5 0.5 0.5 0.5 0.5 0.6 0.7 0.7 0.7 0.8 0.8 0.8



Indicator 2. HIV Testing Rates

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

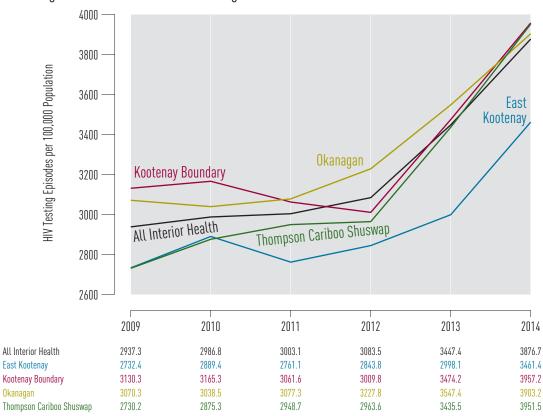
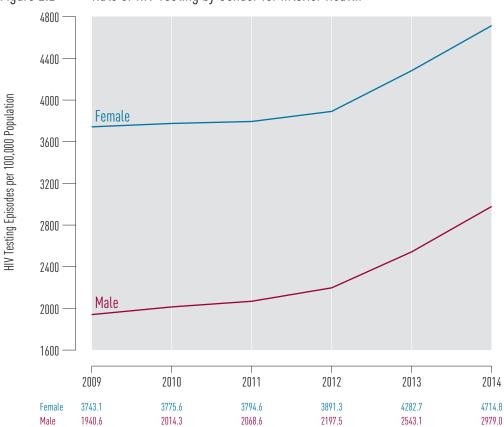
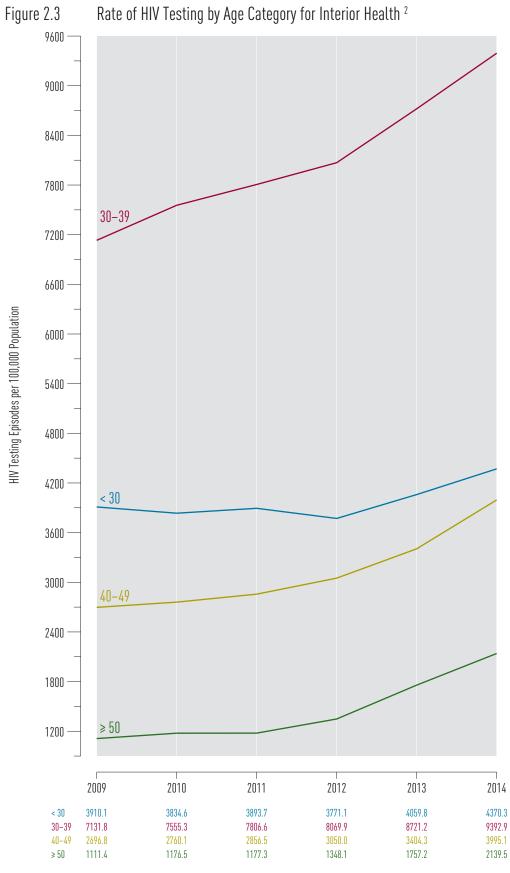


Figure 2.2 Rate of HIV Testing by Gender for Interior Health ²



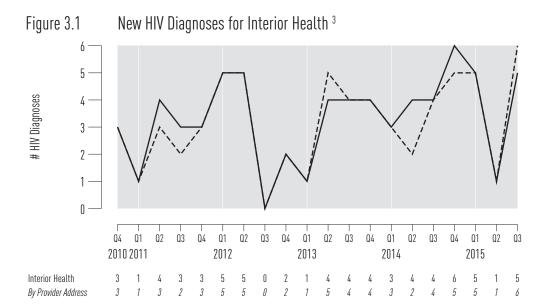


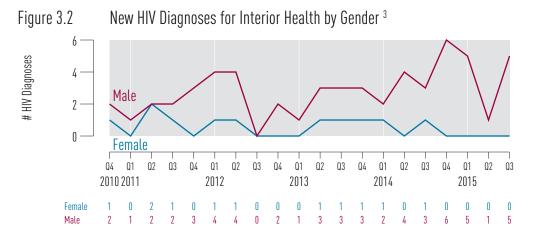
Testing does not include point of care tests.

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





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 40-49 ≥ 50 30-39 Q1 Q2 Q3 Q1 Q2 Q3 Q4 Q1 Q2 Q4 Q1 Q2 Q3 Q2 Q3 Q1 2010 2011 2012 2013 2014 2015 < 30 0 0 0 0 2 2 0 3 30-39 0 0 0 0 0 0 0 3 0 0 0

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

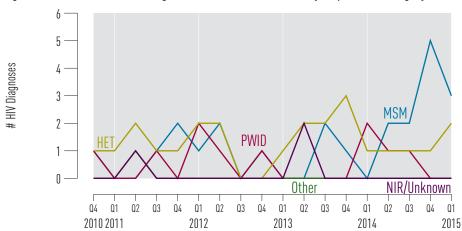
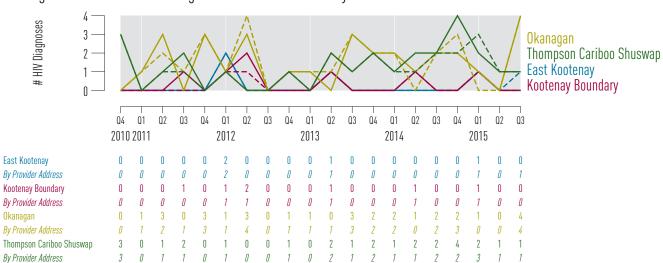


Figure 3.5 New HIV Diagnoses for Interior Health by HSDA $^{\rm 3}$



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, laboratory results suggestive of acute HIV infection, and clinical presentation with an AIDS-defining illness (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	Laboratory criteria met for acute HIV infection, or previous negative or indeterminate HIV test within 180 days of first confirmed positive HIV test.											
1			CD4 ≥500		N. AIDO								
2a			CD4 350-499	and	No AIDS case report								
2b	Stage 0		CD4 200-349		торого								
3	not met	and	(CD4 <200	or	AIDS case report								
Unknown			No available CD4	and	No AIDS case report								

Figure 4.1 Stage of HIV Infection at Diagnosis for Interior Health, 2010–2014 ⁵

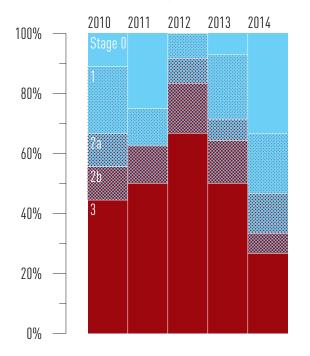
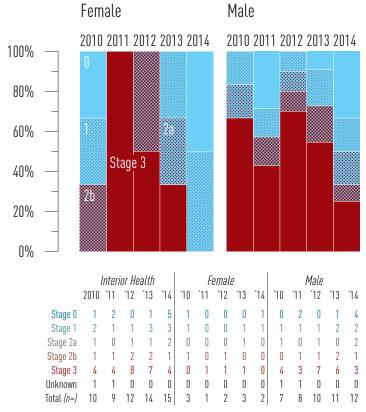


Figure 4.2 Stage of HIV Infection at Diagnosis by Gender for Interior Health, 2010–2014 ⁵



Data Source: вссос

Figure 4.3 Stage of HIV Infection at Diagnosis by Age Category for Interior Health, 2010–2014 ⁵

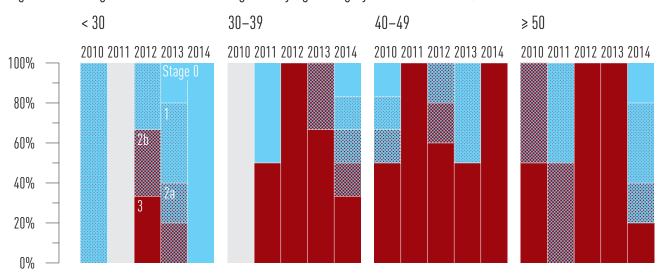
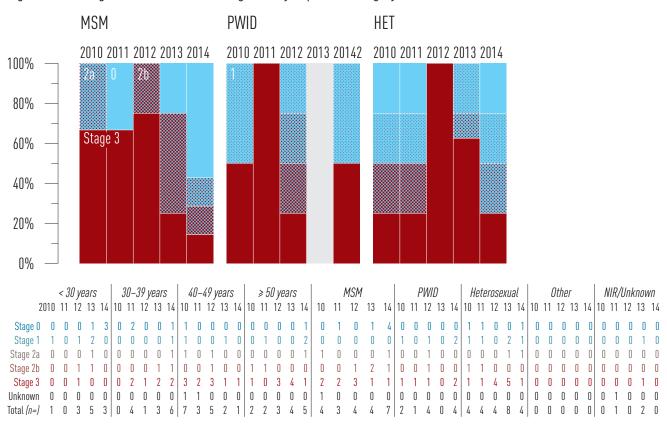


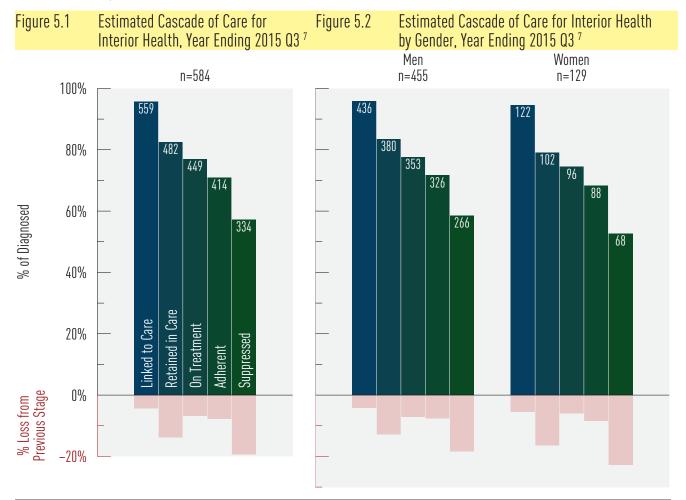
Figure 4.4 Stage of HIV Infection at Diagnosis by Exposure Category for Interior Health, 2010–2014 5.6



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

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. Leakage 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 2014 Q4–2015 Q3 in BC overall and stratified by sex and age for each Health Authority.



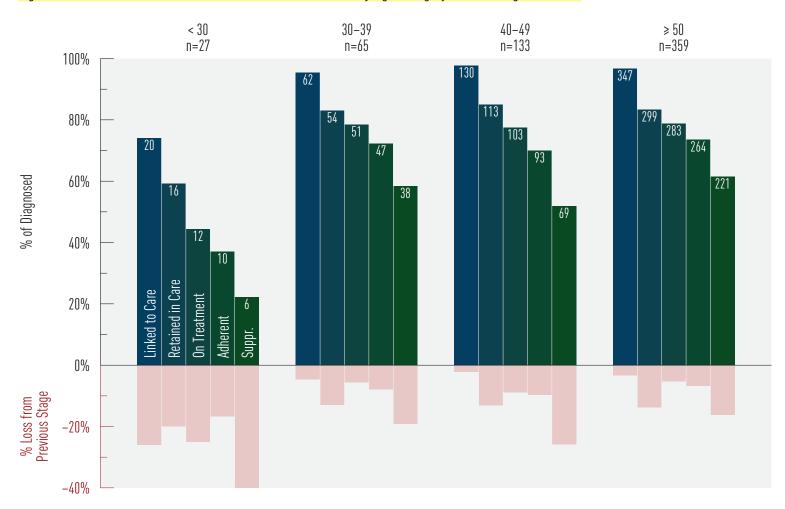
⁷ Data is for the period 2014 Q4-2015 Q3. Data Sources:

- 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 has been assigned to their biological sex.

Figure 5.3 Estimated Cascade of Care for Interior Health by Age Category, Year Ending 2015 Q3 8

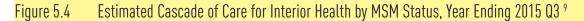


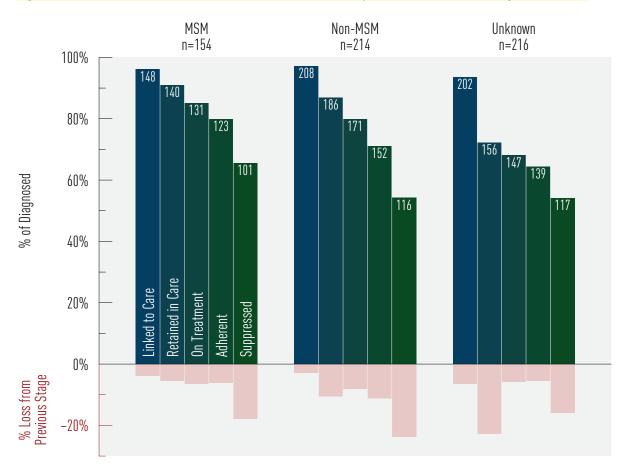
Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

⁸ Data is for the period 2014 Q4-2015 Q3. 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.

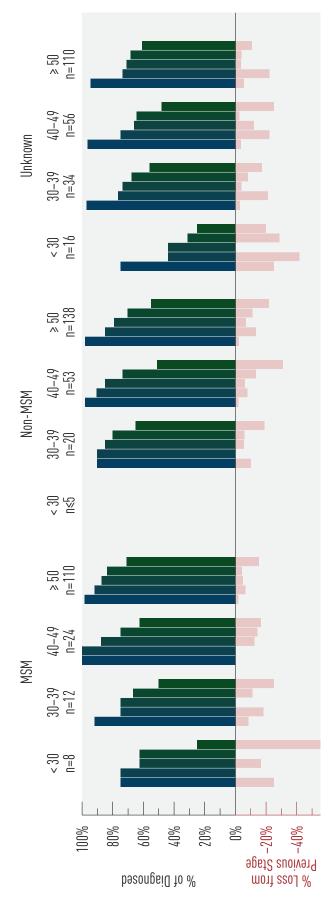
Recent updates to the DTP database have allowed for more comprehensive information on HIV risk group category. As a result, 2014 Q4 data may differ significantly from preceding reports in terms of total numbers ascribed to each risk group.

Data is for the period 2014 Q4-2015 Q3.
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)).

Estimated Cascade of Care for Interior Health by Age Category and MSM Status, Year Ending 2015 Q3 9 Figure 5.5



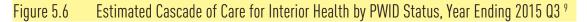
Data is for the period 2014 Q4-2015 Q3.

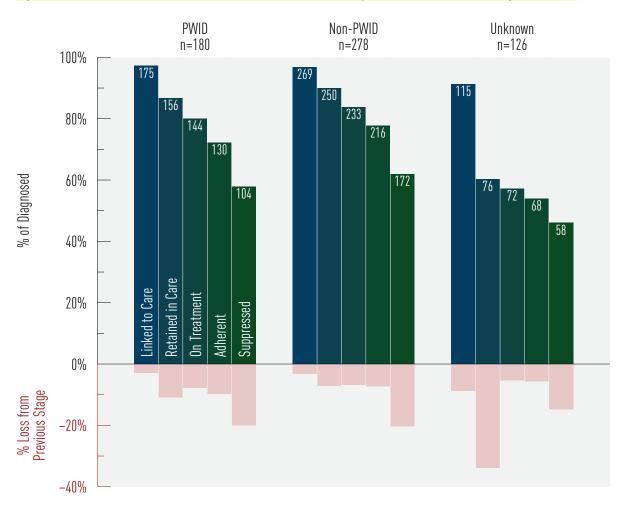
Data Sources:

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. Recent updates to the DTP database have allowed for more comprehensive information on HIV risk group category. As a result, 2014 Q4 data may differ significantly from preceding reports in terms of total numbers ascribed to each risk group.

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

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.

Recent updates to the DTP database have allowed for more comprehensive information on HIV risk group category. As a result, 2014 Q4 data may differ significantly from preceding reports in terms of total numbers ascribed to each risk group.

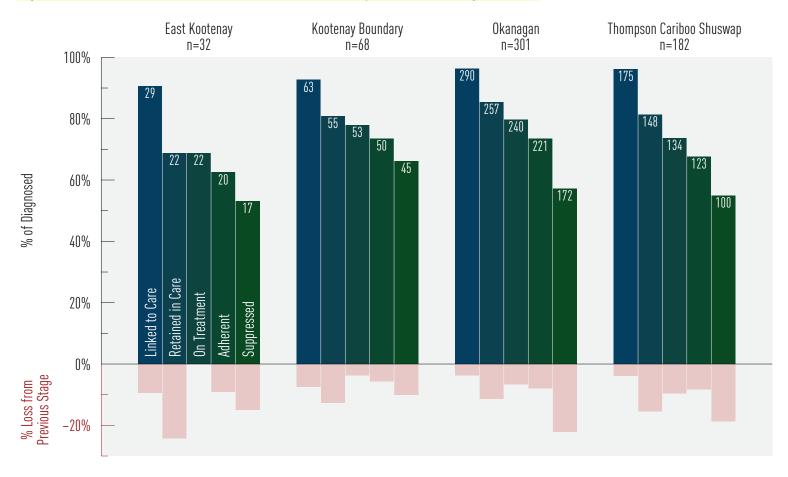
Data is for the period 2014 Q4-2015 Q3.

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 2015 Q3 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.

Recent updates to the DTP database have allowed for more comprehensive information on HIV risk group category. As a result, 2014 Q4 data may differ significantly from preceding reports in terms of total numbers ascribed to each risk group.

⁹ Data is for the period 2014 Q4-2015 Q3.

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)).

Indicator 6. The 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;
- 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. The Probability of Mortality, Immunologic Failure and Virologic Failure based on the Programmatic Compliance Score

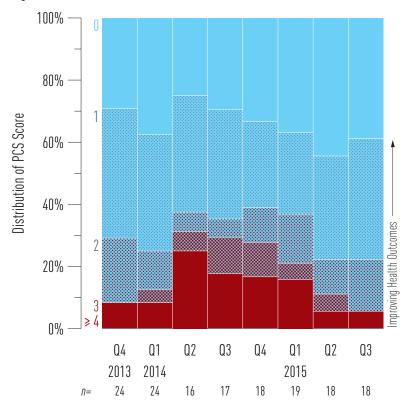
Programmatic	Mortality Risk Ratio (95% Confidence Interval)	Immunologic Failure Risk Ratio (95% CI)	Virologic Failure Risk Ratio
Compliance Score	(95% Confidence interval)	Katio (40% CI)	(95% CI)
0 (Best score)	1 (-)	1 (-)	1 (-)
1	3.81 (1.73-8.42)	1.39 (1.04–1.85)	1.32 (1.05–1.67)
2	7.97 (3.70–17.18)	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, 2013 Q4-2015 Q3 10



Figure 6.2 Historical Trends for PCS Score for Interior Health, 2013 Q4–2015 Q3 10,11



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

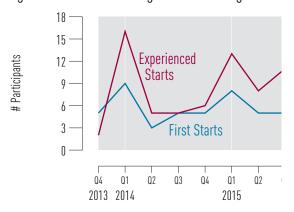
¹¹ Each quarter's data is calculated as the sum of the 4 quarters leading up to it. e.g. 2013 Q1 is calculated from 2012 Q2 – 2013 Q1. NB: A score of o is the best score and a score of 4 or more is the worst score.

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, 2013 Q4-2015 Q3 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, 2013 Q4–2015 Q3 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.

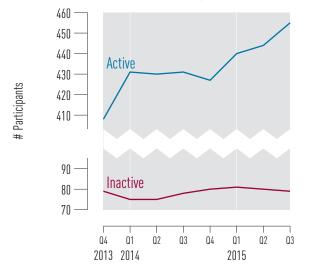
¹³ Data Source: Drug Treatment Program Database Limitations: CD4 cell count data is approximately 80% complete.

Indicator 9. Active and Inactive DTP Participants

Table 3. Distribution of People on ART for Interior Health, 2015 Q3 14

Age	< 30	16
	30-39	55
	40-49	107
	≥ 50	277
Gender	Male	360
	Female	95
Exposure	MSM	135
	PWID	146
Total		455

Figure 9 Active and Inactive DTP Participants for Interior Health, 2013 Q4-2015 Q3 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.

Recent updates to the DTP database provides for improved classification allowing some individuals previously classified as 'unknown' to be reclassified into specific risk groups. This update is in effect from 2014Q4 and may result in noticeable changes of numbers in each risk group category compared to previous reports.

Definitions:

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

'Unknown/not stated' defined as being on treatment in the current quarter, and city of residence unknown

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, 2013 Q4–2015 Q3 ¹⁶

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.

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

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 or three 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.

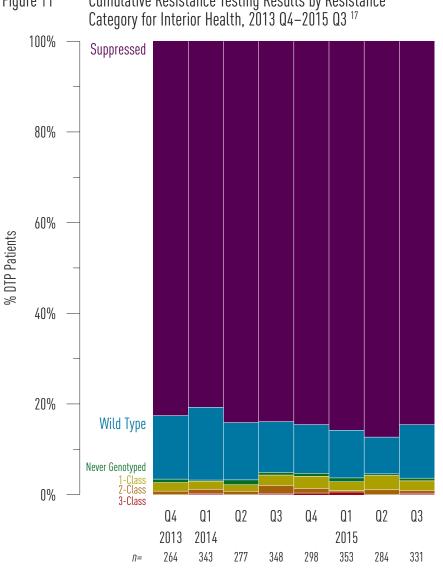


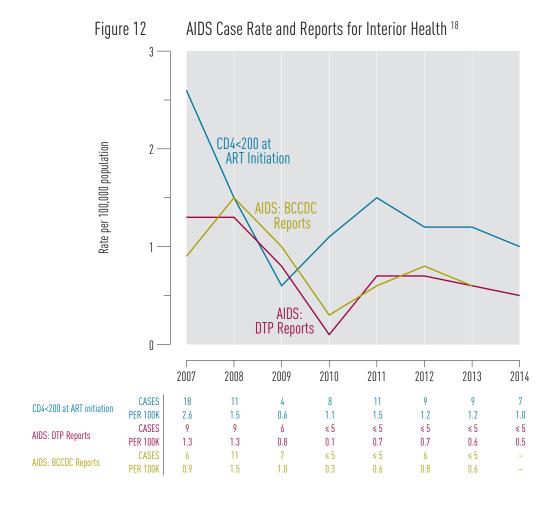
Figure 11 Cumulative Resistance Testing Results by Resistance

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

¹⁷ Data Source: Drug Treatment Program Database

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.

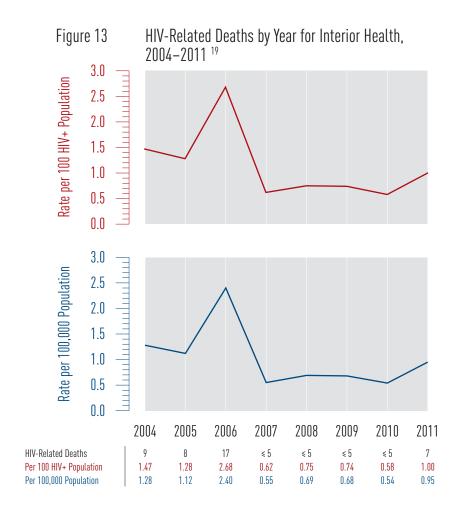


Data Source: DTP AIDS cases are obtained from the Drug Treatment Program Database; BCCDC AIDS cases are obtained from the BCCDC; CD4<200 at ART initiation data came from the DTP database.

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.

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		2010	2011				2012				2013				2014				2015		
Episodes	(thousands)	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Interior H	ealth	5.9	6.0	5.5	5.6	5.9	5.9	5.7	5.9	5.9	6.1	6.4	6.3	6.6	7.2	7.1	7.4	7.6	8.5	8.6	9.7
Gender	Female	3.8	3.9	3.6	3.6	3.8	3.8	3.6	3.8	3.7	3.9	4.0	3.9	4.1	4.5	4.2	4.5	4.5	5.1	5.0	5.7
	Male	1.9	2.0	1.8	1.8	2.0	2.0	1.9	2.1	2.1	2.2	2.3	2.3	2.4	2.6	2.8	2.7	2.9	3.2	3.4	3.7
	Other	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1
Female (Pr	renatal)	1.8	1.9	1.6	1.7	1.7	1.8	1.6	1.7	1.7	1.7	1.6	1.6	1.7	1.9	1.6	1.8	1.7	1.9	1.6	1.8
Female (N	on-prenatal)	2.1	2.0	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	3.4	3.9
Age	< 30	2.3	2.5	2.2	2.3	2.5	2.3	2.2	2.4	2.3	2.2	2.3	2.4	2.5	2.6	2.5	2.6	2.7	2.8	2.7	3.0
	30-39	1.6	1.8	1.6	1.6	1.6	1.8	1.6	1.7	1.6	1.8	1.8	1.8	1.8	2.0	1.9	2.1	2.0	2.3	2.2	2.4
	40-49	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2
	≥ 50	1.2	1.0	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.4	1.3	1.5	1.5	1.7	1.7	1.8	2.2	2.5	2.8
POC HIV (not in the		0	0	10	34	21	26	28	20	27	38	38	40	37	93	86	163	202	180	130	167
East Koote	enay	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.8	1.0
Female	(Non-prenatal)	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	0.2	0.2	0.3	0.3	0.4
Male		0.2	0.2	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
Kootenay	Boundary	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0
Female	(Non-prenatal)	0.3	0.2	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
Male		0.3	0.2	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
Okanagan		2.9	3.1	2.8	3.0	3.1	3.2	3.1	3.2	3.0	3.1	3.3	3.2	3.4	3.6	3.6	3.7	3.8	4.3	4.2	4.9
Female ((Non-prenatal)	1.0	1.1	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	1.6	1.9
Male		1.0	1.0	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
Thompson Shuswap	ı Cariboo	1.6	1.7	1.6	1.6	1.5	1.6	1.5	1.6	1.7	1.8	1.9	1.8	1.9	2.1	2.1	2.3	2.3	2.6	2.7	2.8
Female	(Non-prenatal)	0.5	0.6	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
Male		0.5	0.6	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

Indicator 2: Rate of HIV Testing per 100,000

AH Y		2009	2010	2011	2012	2013	2014
All Interior	All Interior Health		2986.8	3003.1	3083.5	3447.4	3876.7
East Kootenay		2732.4	2889.4	2761.1	2843.8	2998.1	3461.4
Kootenay Boundary		3130.3	3165.3	3061.6	3009.8	3474.2	3957.2
Okanagan		3070.3	3038.5	3077.3	3227.8	3547.4	3903.2
Thompson	Cariboo Shuswap	2730.2	2875.3	2948.7	2963.6	3435.5	3951.5
Gender	Female	3743.1	3775.6	3794.6	3891.3	4282.7	4714.8
	Male	1940.6	2014.3	2068.6	2197.5	2543.1	2979.0
Age	< 30	3910.1	3834.6	3893.7	3771.1	4059.8	4370.3
	30-39	7131.8	7555.3	7806.6	8069.9	8721.2	9392.9
	40-49	2696.8	2760.1	2856.5	3050.0	3404.3	3995.1
	≥ 50	1111.4	1176.5	1177.3	1348.1	1757.2	2139.5

Indicator 3	: Nev	v Hl	IV D	iagr	1086	es			'10 Q4	'11 Q1	Q2	Q3	Q4	201 Q1		2 Ç)3		2013 Q1		Q3		2014 Q1		Q3	Q4	201 Q1		Q3
Interior He	alth		I	Ву С	lien	t Res	siden	ce	3	1	4	3	3	į	5	5	0	2	1	4	4	4	3	4	4	6	5	1	5
			1	Ву Р1	rovi	der A	Addre	ess	3	1	3	2	3		5	5	0	2	1	5	4	4	3	2	4	5	5	1	6
Gender			I	ema	ale				1	0	2	1	0	1	1	1	0	0	0	1	1	1	1	0	1	0	0	0	0
			1	Male	:				2	1	2	2	. 3	4	4	4	0	2	1	3	3	3	2	4	3	6	5	1	5
Age			<	< 30					1	0	1	0	0	1	1	1	0	1	0	0	2	2	0	1	1	2	2	0	3
			3	30-3	9				0	1	0	3	1		1	1	0	0	0	0	2	1	0	1	3	2	0	0	0
			4	10-4	9				2	0	3	0	1	2	2	1	0	1	0	1	0	1	1	1	0	1	1	1	2
			2	≥ 50					0	0	0	0	1		1	2	0	0	1	3	0	0	2	1	0	1	2	0	0
Exposure			1	MSN	1				1	0	0	1	2		1	2	0	1	0	0	2	1	0	2	2	5	3	-	_
			I	PWI	D				1	0	0	1	0	1	2	1	0	1	0	0	0	0	2	1	1	0	0	-	_
			I	НЕТ	,				1	1	2	1	1	2	2	2	0	0	1	2	2	3	1	1	1	1	2	_	_
			(Othe	er				0	0	1	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	_	_
			1	NIR/	/Un	knov	vn		0	0	1	0	0	(0	0	0	0	0	2	0	0	0	0	0	0	0	-	_
East Kooter	nay		I	Зу С	lien	t Res	siden	ce	0	0	0	C	0	1	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0
			1	By P1	rovi	der A	Addre	ess	0	0	0	0	0		2	0	0	0	0	1	0	0	0	0	0	0	1	0	1
Kootenay B	Bound	lary	I	Зу С	lien	t Res	siden	ce	0	0	0	1	0		1	2	0	0	0	1	0	0	0	1	0	0	1	0	0
			1	By Pi	rovi	der A	Addre	ess	0	0	0	0	0		1	1	0	0	0	1	0	0	0	1	0	0	1	0	0
Okanagan			I	Зу С	lien	t Res	siden	ce	0	1	3	0	3		1	3	0	1	1	0	3	2	2	1	2	2	1	0	4
			I	3y P1	rovi	der A	Addre	ess	0	1	2	1	3	1	1	4	0	1	1	1	3	2	2	0	2	3	0	0	4
Thompson	Carib	000	I	Зу С	lien	t Res	siden	ce	3	0	1	2	0	1	1	0	0	1	0	2	1	2	1	2	2	4	2	1	1
Shuswap							Addre		3	0	1	1	0		1	0	0	1	0	2	1	2	1	1	2	2	3	1	1
Indicator 4:	Stag	e of	ні	7 Inf	fect	ion a	ıt Ba	selin	ıe																				
Indicator 4:	In	iteri	or H	ealtŀ	ı		Fe	male	2		(Iale	(0 yea				0-39						years	
	In '10	teri	or H '12	ealth '13	n '14	'10	Fe '11	male '12 '	e '13			' 11	'12 '			'10 '	'11	'12	' 13		'10 '	11 '	12 '1	13 '1		0 '1	1 '1	· 13	' 14
Stage 0	10 1	iteri '11 2	or H '12 0	ealth '13 1	14 5	'10 1	Fe '11	male 12 0	°13 0	1	0	^{'11} 2	12 '	1	4	0	11 0	0	'13 1	3	0	2	0	0	1	0 '1 1	0 (2 '13 0 0	'14 0
Stage 0 Stage 1	In '10 1 2	1 teri	or H '12 0 1	ealth '13 1 3	14 5 3	'10 1 1	Fe '11 0 0	male '12 ' 0 0	°13 0 1	1 1	0	11 2 1	12 ° 0 1	1 2	4 2	10 ° 0 1	0 0	°12 0 1	1 2	3	10 ° 0 0	11 ° 2 0	12 '1 0 0	0 0	1	0 '1 1 1	1 '12 0 0	2 '13 0 0 0 1	14 0 0
Stage 0 Stage 1 Stage 2a	In '10 1 2 1	terio '11 2 1 0	or H '12 0 1	ealth '13 1 3 1	1 '14 5 3 2	'10 1 1 0	Fe '11 0 0 0 0	male '12 ' 0 0 0	6 1 1	1 1 0	0 1 1	'11 2 1 0	1 1 1	1 2 0	4 2 2	10 ° 0 1 0	0 0 0	°12 0 1 0	1 2 1	3 0 0	10 ° 0 0 0	2 0 0	0 0 0	0 0 0	1 1 1	0 '1 1 1 1	1 '1: 0 (0 (0	2 '13 0 0 0 1 1 0	14 0 0 0
Stage 0 Stage 1 Stage 2a Stage 2b	In '10 1 2	1 1 0 1	or H '12 0 1 1 2	ealth '13 1 3 1 2	1 14 5 3 2 1	'10 1 1 0 1	Fe '11 0 0 0 0 0	male 12 0 0 0 0	0 1 1 0	1 1 0 0	0 1 1 0	'11 2 1 0 1	1 1 1 1	1 2 0 2	4 2 2 1	0 1 0 0	0 0 0 0	1 0 1 0 1	'13 1 2 1 1	3 0 0 0	0 0 0 0	111 ' 2 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	0 '1 1 1 1 0	1 '12 0 (0 0 (0 0	2 '13 0 0 0 1 1 0	'14 0 0 0 0
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3	In '10 1 2 1 1 4	terio '11 2 1 0	or H '12 0 1 1 2 8	ealth '13 1 3 1 2 7	1 5 3 2 1 4	'10 1 1 0 1 0	Fe '11 0 0 0 0 0 1	male 12 0 0 0 0 1	0 1 1 0 1	1 1 0 0	0 1 1 0 4	'11 2 1 0	1 1 1 7	1 2 0 2 6	4 2 2 1 3	1 0 1 0 0 0	0 0 0 0 0	0 1 0 1 1	'13 1 2 1 1 0	3 0 0 0	0 0 0 0 0	111 ' 2 0 0 0 0 2	12 '1 0 0 0 0 0	0 0 0 0 1 2	1 1 1 1 2	0 '1 1 1 1 0 3	1 '12 0 0 0 0 0 0 2	2 '13 0 0 0 1 1 0 1 0 3 1	'14 0 0 0 0 0
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown	In '10	1 0 1 4 1	or H '12 0 1 1 2 8 0	ealth '13 1 3 1 2 7 0	1 5 3 2 1 4	'10 1 1 0 1 0 1 0	Fe '11 0 0 0 0 1 0 0	male 12 0 0 0 0 1 1	0 1 1 0 1 0	1 0 0 0 0	0 1 1 0 4 1	'11 2 1 0 1 3 1	'12 ' 0 1 1 1 7 0	1 2 0 2 6 0	4 2 2 1 3 0	0 1 0 0 0 0	0 0 0 0 0 0	'12 0 1 0 1 1 0	'13 1 2 1 1 0 0	3 0 0 0 0	10 0 0 0 0 0 0 0	11 ' 2 0 0 0 2 0	12 '1 0 0 0 0 0 1 0	13 '1 0 0 0 1 2 0	1 1 1 1 2 0	0 '1 1 1 0 3 1	1 '11' 0 0 0 0 0 0 2 1	2 '13 0 0 0 1 1 0 1 0 3 1 0 0	0 0 0 0 0 1
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3	In '10 1 2 1 1 4	1 0 1 4 1	or H '12 0 1 1 2 8	ealth '13 1 3 1 2 7 0	1 5 3 2 1 4	'10 1 1 0 1 0 1 0	Fe '11 0 0 0 0 0 1	male 12 0 0 0 0 1	0 1 1 0 1	1 1 0 0	0 1 1 0 4	'11 2 1 0 1 3 1	'12 ' 0 1 1 1 7 0	1 2 0 2 6	4 2 2 1 3 0	1 0 1 0 0 0	0 0 0 0 0	0 1 0 1 1	'13 1 2 1 1 0	3 0 0 0	0 0 0 0 0	111 ' 2 0 0 0 0 2	12 '1 0 0 0 0 0	0 0 0 0 1 2	1 1 1 1 2	0 '1 1 1 1 0 3	1 '11' 0 0 0 0 0 0 2 1	2 '13 0 0 0 1 1 0 1 0 3 1	0 0 0 0 0 1
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown	In '10	tteric '11	or H '12 0 1 1 2 8 0 12 0 yea	ealth '13 1 3 1 2 7 0 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	'10 1 1 0 1 0 3	Fe '11 0 0 0 0 1 0 1 M	male (12 ° 0 0 0 1 1 0 2 1 SM	613 0 1 1 0 1 0 3	1 0 0 0 0 0 2	0 1 1 0 4 1 7	'11 2 1 0 1 3 1 8	'12 ' 0 1 1 1 7 0 10 WID	1 2 0 2 6 0 11	4 2 2 1 3 0 12	10 0 1 0 0 0 0 1 H	611 0 0 0 0 0 0	0 1 0 1 1 0 3	1 2 1 1 0 0 5 xual	3 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0	11 ' 2 0 0 0 0 2 0 4 her E	0 0 0 0 0 1 0 1	0 0 0 0 1 2 0 3	1 1 1 2 0 6	0 '1 1 1 0 3 1 7	1 '12 0 0 0 0 0 2 1 3	2 '13 0 0 0 1 1 0 1 0 3 1 0 0 5 2	14 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown	In '10	tteric '11	or H '12 0 1 1 2 8 0 12 0 yea	ealth '13 1 3 1 2 7 0 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	'10 1 1 0 1 0 3	Fe '11 0 0 0 0 1 0 1 M	male (12 ° 0 0 0 1 1 0 2 1 SM	613 0 1 1 0 1 0 3	1 0 0 0 0 0 2	0 1 1 0 4 1 7	'11 2 1 0 1 3 1 8	'12 ' 0 1 1 1 7 0 10 WID	1 2 0 2 6 0 11	4 2 2 1 3 0 12	10 0 1 0 0 0 0 1 H	611 0 0 0 0 0 0	0 1 0 1 1 0 3	1 2 1 1 0 0 5 xual	3 0 0 0 0 0 0 3	0 0 0 0 0 0 0	11 ' 2 0 0 0 0 2 0 4 her E	0 0 0 0 0 1 0 1	0 0 0 0 1 2 0 3	1 1 1 2 0 6	0 '1 1 1 0 3 1 7	1 '12 0 0 0 0 0 2 1 3	2 '13 0 0 0 1 1 0 1 0 3 1 0 0 5 2	14 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown	In '10	tteric '11	or H '12 0 1 1 2 8 0 12 0 yea	ealth '13 1 3 1 2 7 0 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	'10 1 1 0 1 0 3	Fe '11 0 0 0 0 1 0 1 M	male (12 ° 0 0 0 1 1 0 2 1 SM	613 0 1 1 0 1 0 1 0 3	1 0 0 0 0 0 2	0 1 1 0 4 1 7	'11 2 1 0 1 3 1 8	'12 ' 0 1 1 1 7 0 10 WID	1 2 0 2 6 0 11	4 2 2 1 3 0 12	10 0 1 0 0 0 0 1 H	611 0 0 0 0 0 0	0 1 0 1 1 0 3	1 2 1 1 0 0 5 xual	3 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0	11 ' 2 0 0 0 0 2 0 4 her E	0 0 0 0 0 1 0 1	0 0 0 0 1 2 0 3	1 1 1 2 0 6	0 '1 1 1 0 3 1 7 NIF 0 '1	1 '12 0 0 0 0 0 2 1 3 2/Un 1 '12	2 '13 0 0 0 1 1 0 1 0 3 1 0 0 5 2	'14 0 0 0 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown Total Stage 0 Stage 1	In '10	therical state of the state of	or H '12 0 1 1 2 8 0 12 0 year '12	ealth '13 1 3 1 2 7 0 14 ars '13	1 14 5 3 2 1 4 0 15 15 14 14 14 14 14 14 14 14 14 14 14 14 14	'10 1 1 0 1 0 3 '10	Fe '11' 0 0 0 0 0 1 0 1 M '11'	male (12 ° 0 0 0 0 1 1 0 2 1 1 1 1 2 1 1 1 1 1 1 1	613 0 1 1 0 1 0 1 0 3	1 0 0 0 0 2	0 1 1 0 4 1 7	'11 2 1 0 1 3 1 8	1 1 1 7 0 10 VID 12 1	1 2 0 2 6 0 11	4 2 2 1 3 0 12	0 1 0 0 0 0 0 0 1	0 0 0 0 0 0 0	'12 0 1 0 1 1 0 3 rose:	'13 1 2 1 1 0 0 5 xual	3 0 0 0 0 0 3	0 0 0 0 0 0 Otl	11 ' 2 0 0 0 2 0 4 her E	12 °1 0 0 0 0 1 0 1 Expos	13 '1 0 0 0 1 2 0 3 sure 13 '1	1 1 1 2 0 6	0 '1 1 1 0 3 1 7 NIF 0 '1	1 '12' 0 0 0 0 0 2 1 1 '12' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 '13 0 0 0 1 1 0 1 0 3 1 0 0 5 2 know 2 '13	14 0 0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown Total Stage 0	1 1 2 1 1 4 1 10 10 0	tteric '11 2 1 0 1 4 1 9 ≥ 5 '11 0	or H '12 0 1 1 2 8 0 12 0 year '12 0	ealth '13 1 3 1 2 7 0 14 arrs '13 0	1 14 5 3 2 1 4 0 15 15 14 1	'10 1 1 0 1 0 3 '10 0 3	Fe '11 '0 0 0 0 0 1 0 1 M '11 '11 1	male (12) 0 0 0 1 1 0 2 ISM (12) 0 0	0 1 1 0 1 0 1 0 3	1 1 0 0 0 0 0 2	0 1 1 0 4 1 7 '10	'11 2 1 0 1 3 1 8 PV	1 1 1 7 0 10 WID 0 112 0	1 2 0 2 6 0 111	4 2 2 1 3 0 12	0 1 0 0 0 0 0 0 1 1 H-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	611 0 0 0 0 0 0 0 0 1 Etee 611 1	12 0 1 0 1 1 0 3 rrose:	'13 1 2 1 1 0 0 5 xual '13 0	3 0 0 0 0 0 3 '14	10 0 0 0 0 0 0 Otl 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 0 4 4 her F	112 '1 0 0 0 0 0 1 0 1 Expos	13 '1 0 0 0 0 1 2 0 3 sure 113 '1 0	1 1 1 2 0 6	0 '1 1 1 0 3 1 7 NIF 0 '1 0 0	1 '11' 11' 11' 11' 11' 11' 11' 11' 11'	2 '13 0 0 0 1 1 0 1 0 3 1 0 0 5 2 know 2 '13	14 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0
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Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown Total Stage 0 Stage 1 Stage 2a	In '10	therical state of the state of	or H '12 0 1 1 2 8 0 12 0 yea '12 0 0	ealth '13 1 3 1 2 7 0 14 arrs '13 0 0	1 14 5 3 2 1 4 0 15 15 14 1 2 1	'10 1 1 0 1 0 3 '10 0 1 1 1 1 1 1 1 1 1 1 1	Fe '11 '0 0 0 0 1 0 1 1 M '11 1 0 0 0	male male (12 ° 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	6 13 0 1 1 0 1 0 3 1 1 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 2 '14 4 0	0 1 1 0 4 1 7 '10 0 1 0	'11 2 1 0 1 3 1 8 PV '11 0 0	612 ° 0 1 1 1 7 0 10 WID 612 ° 0 1 1 1	1 2 0 2 6 0 111 13 0 0	4 2 2 1 3 0 12 12 0 2 0 2	610 ° 0 1 0 0 0 0 0 1 H 1 1 0 0 0 0 0 0 0 0 0	611 0 0 0 0 0 0 0 0 4 14te 611 1 0	12 0 1 0 1 1 0 3 roses '12 0 0	'13 1 2 1 1 0 0 5 xuall '13 0 2 1	3 0 0 0 0 0 3 '14 1 1	'10 ' 0 0 0 0 0 0 0 0 Otl	11 ' 2 0 0 0 0 2 0 4 her F 11 ' 0 0 0 0	112 '1 0 0 0 0 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	13 '1 0 0 0 0 1 2 0 3 sure 13 '1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 2 0 6 6	0 '1 1 1 0 3 1 7 NIF 0 '1 0 0 0	1 '11' 0 0 0 0 0 0 0 0 22 11 11' 11' 0	2 '13' (13' (13' (13' (13' (13' (13' (13'	14 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0
Stage 0 Stage 1 Stage 2a Stage 2b Stage 3 Unknown Total Stage 0 Stage 1 Stage 2a Stage 2b	In '10	therical state of the state of	or H '12 0 1 1 2 8 0 12 0 year '12 0 0 0	ealth '13 1 3 1 2 7 0 14 arrs '13 0 0 0	1 14 5 3 2 1 4 0 15 15 1 1 0 1 0 1 1 1 1 0 1 1 1 1 1 1	'10 1 1 0 1 0 3 '10 0 1 0 0 1 0 0 0 1 0	Fe '11 '0 0 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0	male (12) 0 0 0 1 1 0 2 ISM (12) 0 0 0 1 1	0 1 1 0 1 0 1 0 3 1 0 0 3 1 0 0 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 2 '14 4 0 1 1	0 1 1 0 4 1 7 '10 0 1 0	'11 2 1 0 1 3 1 8 PV '11 0 0 0 0	(12 () 0 1 1 1 7 0 10 10 WID (12 () 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 0 2 6 0 111 13 0 0 0	4 2 2 1 3 0 12 12 0 2 0 0	610 ° 0 0 0 0 0 1 1 1 1 0 1 1 1 1 0 1 1	611 0 0 0 0 0 0 0 0 0 4 11 1 0 1	12 0 1 0 1 1 0 3 rose: 12 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	'13 1 2 1 1 0 0 5 xual '13 0 2 1 0	3 0 0 0 0 0 3 '14 1 1 1	'10 ' 0 0 0 0 0 0 0 0 Otl	111 ° 2 0 0 0 0 2 0 4 4 her F 111 ° 0 0 0 0	12 10 0 0 0 0 1 0 1 Expos 12 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 '1 0 0 0 0 1 2 0 3 suree 13 '1 0 0 0	1 1 1 1 2 0 6 6	0 '1 1 1 1 0 3 1 7 NIF 0 '1 0 0 0 0 0	1 '11' 0 0 0 0 0 0 0 1 1 '12' 3 3 X/Un 1 '12' 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 '13 (13 (13 (13 (13 (13 (13 (13 (13 (13 (14 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0

Indicator 5: HI	IV Cascade of	Care	DIAGNOSED	LINKED	RETAINED	O.	N ART A	DHERENT	SUPPRESSED
Interior Health		Care	584	559	482	- OI	449	414	334
Age Category			27	20	16		12	10	6
0 0 7	30-39		65	62	54		51	47	38
	40-49		133	130	113		103	93	69
	≥ 50		359	347	299		283	264	221
Age Category	MSM	< 30	8	6	6		5	5	2
and MSM		30-39	12	11	9		9	8	6
Status		40-49	24	24	24		21	18	15
		≥ 50	110	108	101		96	92	78
	Non-MSM	< 30	≤ 5	≤ 5	≤ 5		≤ 5	≤ 5	≤ 5
		30-39	20	18	18		17	16	13
		40-49	53	52	48		45	39	27
		≥ 50	138	135	117		109	97	76
	Unknown	< 30	16	12	7		7	5	4
		30-39	34	33	26		25	23	19
		40-49	56	54	42		37	36	27
		≥ 50	110	104	81		78	75	67
Gender	Male		455	436	380		353	326	266
	Female		129	122	102		96	88	68
Injection	PWID		180	175	156		144	130	104
Drug Use	Non-PWID		278	269	250		233	216	172
	Unknown		126	115	76		72	68	58
MSM Status	MSM		154	148	140		131	123	101
	Non-MSM		214	208	186		171	152	116
	Unknown		216	202	156		147	139	117
Health	East Kootenay	У	32	29	22		22	20	17
Authority	Kootenay Bou	ındary	68	63	55		53	50	45
	Okanagan		301	290	257		240	221	172
	Thompson Ca Shuswap	ariboo	182	175	148		134	123	100
Indicator 6: Dr	ogrammatic C	omnliance S	core (DCS)						
mulcator 0.11	ogrammatic C	2013					2015		
		Q4	Q1	Q2	Q3	Q4	Q1	Q2	
< 3 CD4 Tests		12.5%		31.2%	35.3%	33.3%	31.6%	22.2%	
< 3 Viral Load		12.5%		25.0%	23.5%	22.2%	21.1%	11.1%	
No Baseline Go	7.1	4.2%		0.0%	5.9%	5.6%	5.3%	5.6%	
Baseline CD4	•	33.3%		43.8%	29.4%	38.9%	36.8%	27.8%	
Non-Recommo		8.3%		12.5%	11.8%	5.6%	5.3%	5.6%	
Non Viral supp PCS Score: 0	pression at 9 M			56.2%	47.1%	44.4%	36.8%	22.2%	
PCS Score: 0 PCS Score: 1		7 10	9	4 6	5 6	6 5	7 5	8	
PCS Score: 1 PCS Score: 2		5	3	1	1	2	3	2	
PCS Score: 2 PCS Score: 3		0	1	1	2	2	1	1	
PCS Score: 4 or	r more	2	2	4	3	3	3	1	
Total (n=)	1 111010	24		16	17	18	19	18	

Indicator 7: New DT	P ARV Participants								
	2013 Q4	2014 Q1	Q2	Q3	3	Q4	2015 Q1	Q2	Q3
First Starts	5	9	3		5	5	8	5	5
Experienced Starts	2	16	5	5	5	6	13	8	11
Indicator 8: CD4 Ce	ll Count at ART Initiatio	on for ARV-l	Naïve DTP I	Participants	s				
CD4 ≥ 500	-	2	-	-	-	-	1	-	-
CD4 350-499	_	0	_	-	-	-	2	-	-
CD4 200-349	_	4	_	-	-	-	2	-	_
CD4 50-199	_	3	_	-	-	-	0	-	_
CD4 < 50	_	0	_	-	-	-	2	-	_
CD4 Median (cells/µ)	L) –	270	-	-	-	-	310	-	_
Total (n=)	≤ 5	9	≤ 5	≤ 5	5	≤ 5	7	≤ 5	≤ 5
Indicator 9: Active a	nd Inactive DTP Partici	pants							
Active DTP Participa	ants 408	431	430	431	1	427	440	444	455
Inactive DTP Partici	pants 79	75	75	78	3	80	81	80	79
Indicator 10: Antiret	troviral Adherence								
≥ 95%	-	6	-	4	1	-	7	-	3
80% to < 95%	_	0	_	2	2	-	1	-	2
40% to < 80%	_	1	_	1	l	-	2	-	2
< 40%	_	1	_	()	-	0	-	1
Total (n=)	≤ 5	8	≤ 5	7	7	≤ 5	10	≤ 5	8
Indicator 11: Resista	nce Testing and Results								
Suppressed	218	277	233	292	2	252	303	248	280
Wild Type	37	55	35	39)	32	37	23	39
Never Genotyped	2	1	3	2	2	2	3	1	2
1-Class	5	6	4	8	3	8	7	9	7
2-Class	2	3	2	ϵ	5	3	1	3	2
3-Class	0	1	0	1	l	1	2	0	1
Total (n=)	264	343	277	348	3	298	353	284	331
Indicator 12: AIDS-l	Defining Illness	2007	2008	2009	2010	2011	2012	2013	2014
CD4 < 200 at	Cases	18	11	≤ 5	8	11	9	9	7
ART initiation	Rate per 100,000	2.6	1.5	0.6	1.1	1.5	1.2	1.2	1.0
AIDS Cases	Cases	9	9	6	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
(DTP Reports)	Rate per 100,000	1.3	1.3	0.8	0.1	0.7	0.7	0.6	0.5
AIDS Cases	Cases	6	11	7	≤ 5	≤ 5	6	≤ 5	-
(BCCDC Reports)	Rate per 100,000	0.9	1.5	1.0	0.3	0.6	0.8	0.6	-
Indicator 13: HIV-R	elated Mortality	2004	2005	2006	2007	2008	2009	2010	2011
Interior Health		9	8	17	≤ 5	≤ 5	≤ 5	≤ 5	7
Per 100 HIV+ Popul		1.47	1.28	2.68	0.62	0.75	0.74	0.58	1.00
Per 100,000 Populati	ion	1.28	1.12	2.40	0.55	0.69	0.68	0.54	0.95