

HIV MONITORING QUARTERLY REPORT

FOR NORTHERN 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.

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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. 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

Dr. Rolando Barrios, Chair, BC-CFE

Kate Heath, BC-CFE

Bohdan Nosyk, BC-CFE

Viviane Dias Lima, 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

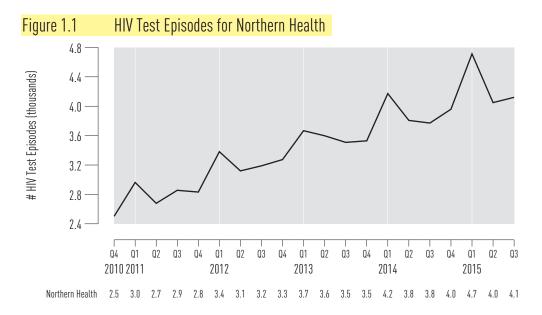


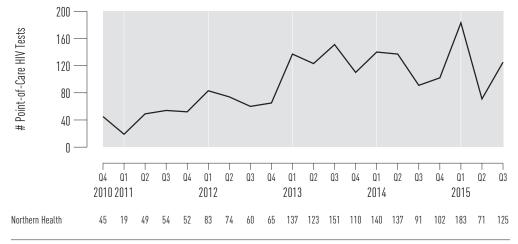
Figure 1.2 HIV Test Episodes by Gender and Prenatal Status for Northern Health ¹ # HIV Test Episodes (thousands) Female Female (Non-prenatal) Female (Prenatal) Male 04 Q3 Q4 Q2 Q3 Q2 Q1 Q2 Q1 Q2 Q1 Q1 Q1 2010 2011 2012 2013 2014 2015 Female 2.0 1.8 1.9 1.9 2.2 2.0 2.1 2.1 2.3 2.3 2.2 2.2 2.6 2.3 0.8 0.8 0.8 1.1 1.0 1.0 1.1 1.2 1.2 1.1 1.2 1.4 1.3 1.3 8.0 1.0 1.0 0.9 1.0 0.9 0.9 1.0 1.0 0.9 0.9 0.9 1.0 8.0 0.9 1.0 Female (Non-prenatal) 0.9 1.0 0.9 1.0 1.0 1.2 1.1 1.2 1.2 1.3 1.4 1.3 1.3 1.6 1.5

10

Figure 1.3 HIV Test Episodes by Age Category for Northern Health 1,2 1.6 -1.5 < 30 1.4 1.3 1.2 -# HIV Test Episodes (thousands) 1.1 -1.0 -0.9 30-39 0.8 0.7 0.6 0.5 0.4

0.3 ≥ 50 0.2 Q1 Q2 Q4 Q2 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q3 Q1 Q3 2010 2011 2012 2013 2014 2015 < 30 1.2 1.3 1.4 1.6 1.5 1.5 1.6 1.5 1.6 1.5 1.6 30-39 0.9 0.8 0.8 1.0 1.0 1.0 0.8 0.9 0.8 0.8 0.9 0.9 0.9 0.8 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.5 0.5 0.5 40-49 0.4 0.5 0.5 ≥ 50 0.5 0.4 0.5 0.5 0.6 0.6 0.6 0.7 0.9 0.8

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



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

Limitations:

- Repeat tests in individuals who test using various identifiers may not be identified and these individuals may be counted more than once.
- Poc testing data are available from the fourth quarter of 2010 forward.
- Testing does not include point of care tests.

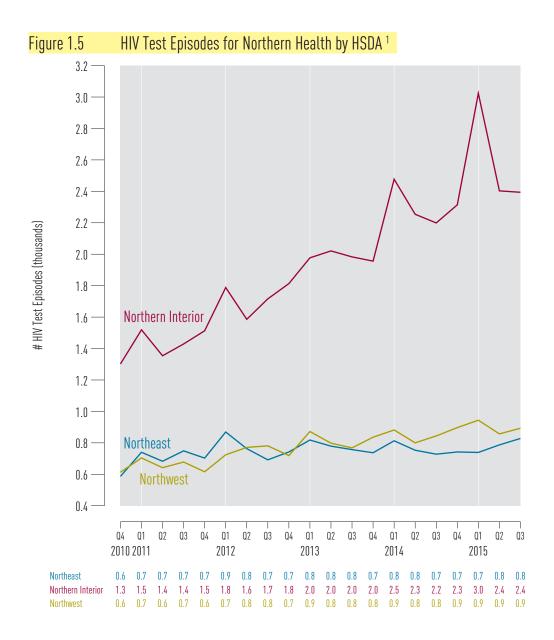
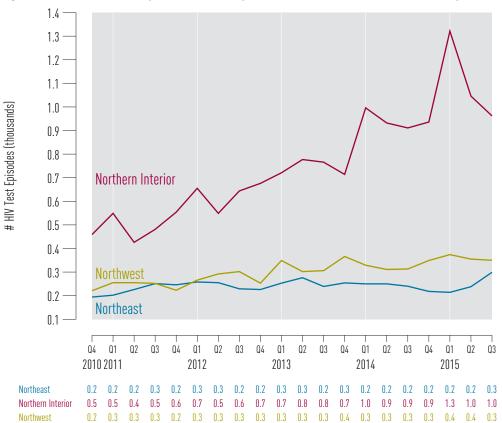
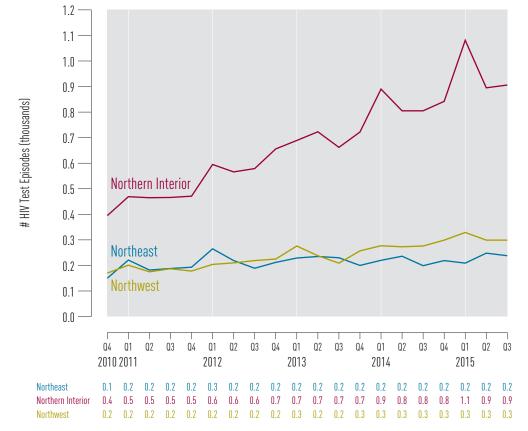


Figure 1.6 HIV Test Episodes for Non-prenatal Females in Northern Health by HSDA ¹







Indicator 2. HIV Testing Rates

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

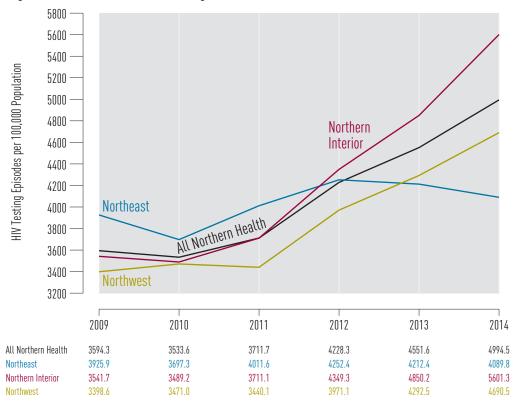
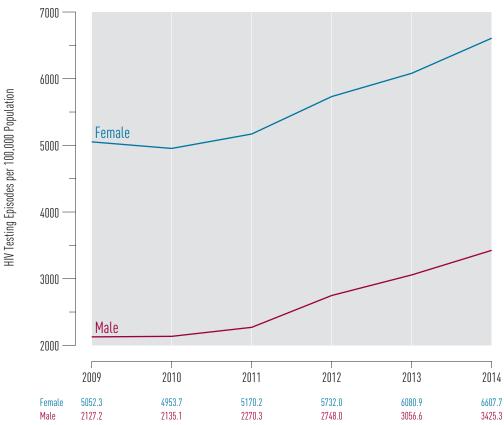


Figure 2.2 Rate of HIV Testing by Gender for Northern Health ²



9000 8000 -30-39 7000 HIV Testing Episodes per 100,000 Population 6000 -5000 -< 30 4000 3000 -40-49 2000 ≥ 50 1000 2009 2010 2011 2012 2013 2014 4330.4 4427.8 4584.9 5031.3 5061.2 4976.7 < 30 30-39 7610.3 7342.4 7927.0 8328.9 8611.4 9163.6 **2741.9** 1246.9 2919.8 1303.5 3418.1 1978.4 3817.3 2728.3 40-49 2647.8 4535.7 3599.3 1201.9

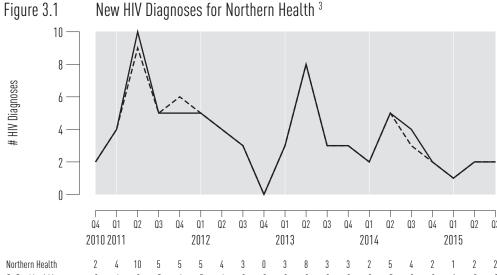
Figure 2.3 Rate of HIV Testing by Age Category for Northern Health ²

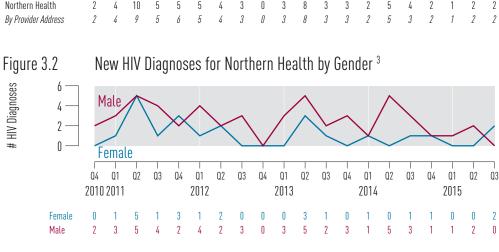
² Testing does not include point of care tests.

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





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

Figure 3.3 New HIV Diagnoses for Northern Health by Age Category ³ # HIV Diagnoses ≥ 50 30 - 3940-49 0 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 2012 2013 2014 2010 2011 2015 < 30 0 0 30-39 0 0 0 2 4 0 0 0 0 5 0 40-49 0 0 0 0 0 Figure 3.4 New HIV Diagnoses for Northern Health by Exposure Category 3,4 # HIV Diagnoses 2 MSM 0 Other NIR/Unknown Q1 Q2 Q3 Q4 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q4 Q4 Q1 Q3 Q1 Q2 Q3 2010 2011 2012 2013 2014 2015 MSM (men who have sex with men) PWID (people who inject drugs) 0 0 HET (heterosexual) 0 0 2 0 Other (other exposure identified) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NIR/Unknown (no identified exposure) Figure 3.5 New HIV Diagnoses for Northern Health by HSDA ³ Northern Interior Northwest Northeast Q4 Q1 Q2 Q3 Q4 Q2 Q3 Q4 Q2 Q3 Q1 Q3 Q4 Q1 Q2 Q3 Q4 Q2 Q1 Q1 2012 2014 2010 2011 2013 2015 Northeast By Provider Address 0 0 2 Northern Interior 3 3 By Provider Address 0 4 0 3 3 0 0 0 0 Northwest

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	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. AIDC								
2a			CD4 350-499	and	No AIDS case report								
2b	N anet2		CD4 200-349		торого								
3	Stage 0 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 Northern Health, 2010–2014 ⁵

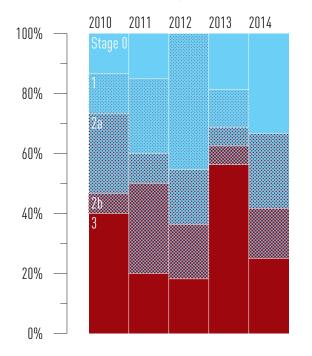
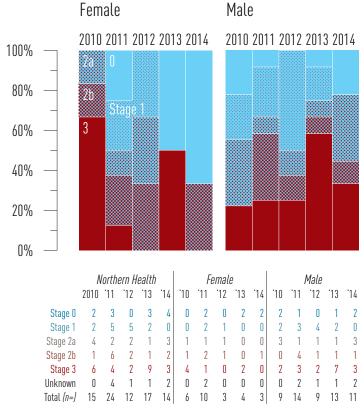


Figure 4.2 Stage of HIV Infection at Diagnosis by Gender for Northern Health, 2010–2014 ⁵



Data Source: BCCDC

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

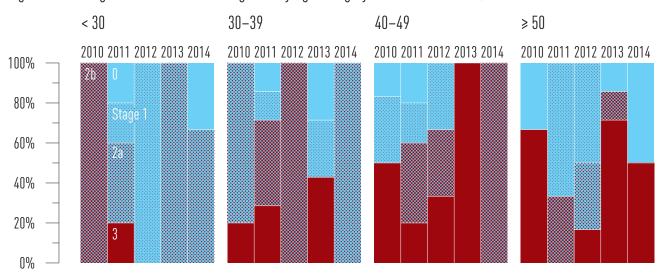
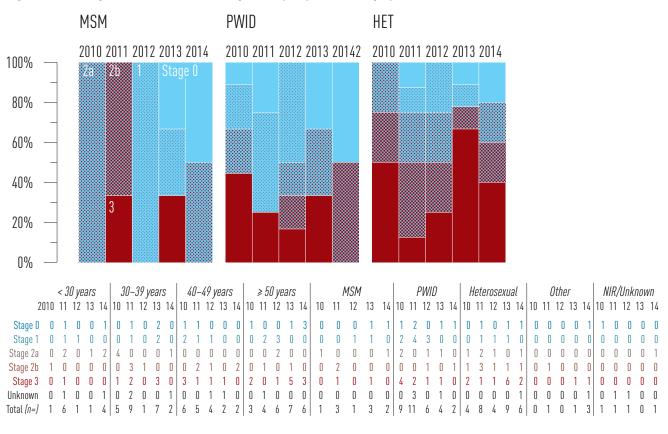


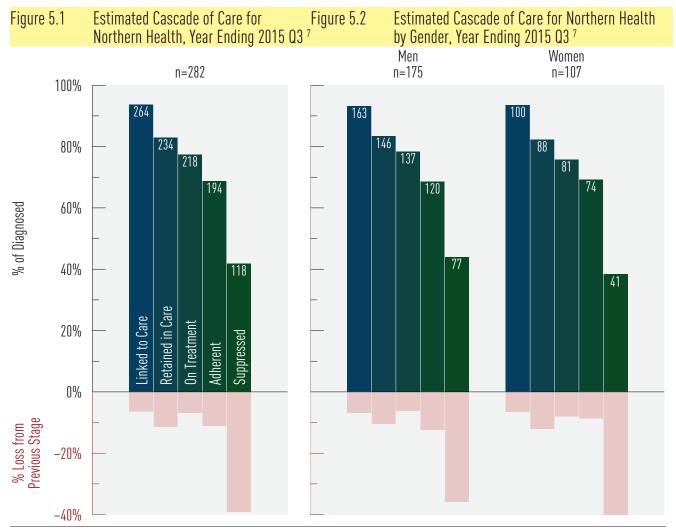
Figure 4.4 Stage of HIV Infection at Diagnosis by Exposure Category for Northern Health, 2010–2014 5.6



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.

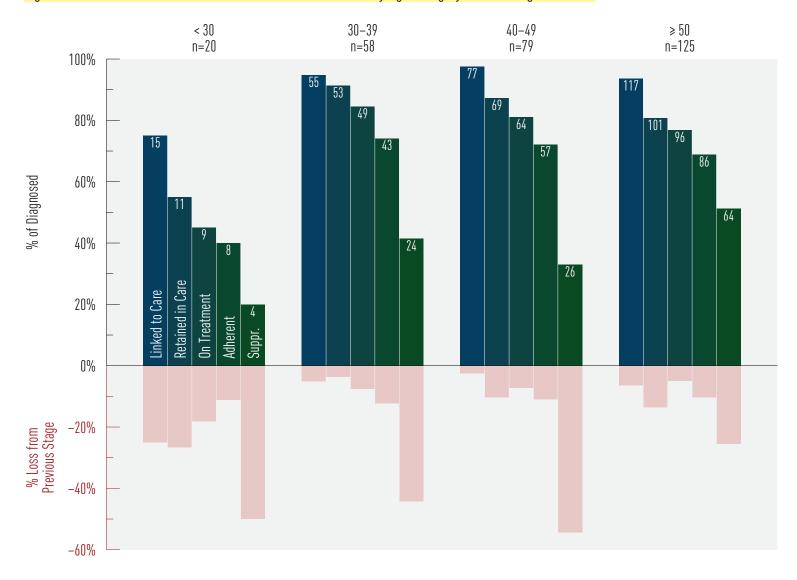


- 7 Data is for the period 2014 Q4-2015 Q3. Data Sources:
 - i British Columbia Centre for Excellence Drug Treatment Program (DTP) Database (ARV use, VL and CD4 count).
 - ii Administrative data (ex. MSP billings; hospitalization data from the Discharge Abstract Database (DAD)).

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 Northern Health by Age Category, Year Ending 2015 Q3 8



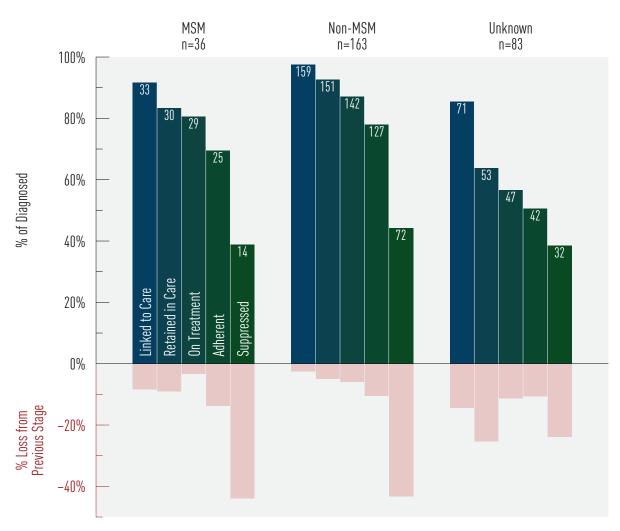
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⁸ Data is for the period 2014 Q4-2015 Q3. Data Sources:

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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.

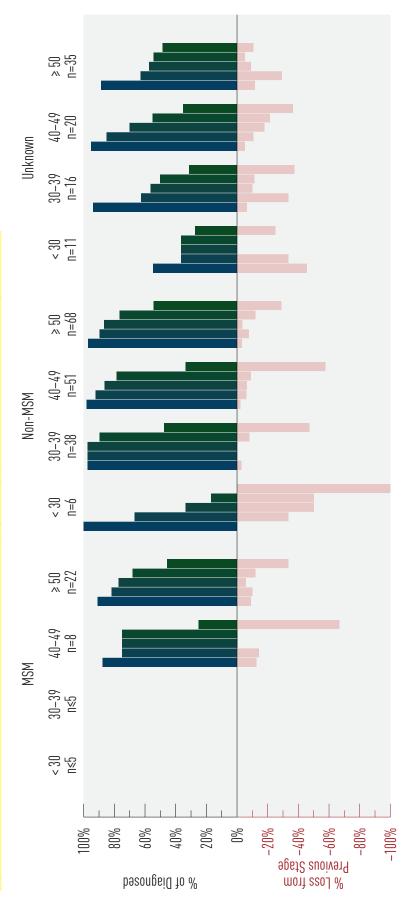
Data is for the period 2014 Q4-2015 Q3.

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 Northern Health by Age Category and MSM Status, Year Ending 2015 Q3 9 Figure 5.5

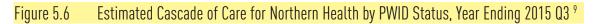


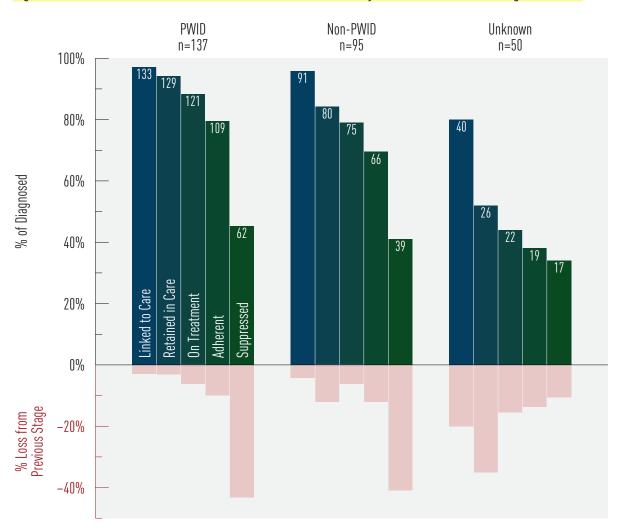
Data is for the period 2014 Q4-2015 Q3. Data Sources:

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)).





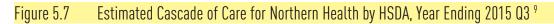
Limitations: HA assignment is based on the most recent HA of residence of the patient, if not available of the HIV-care provider. If the most recent HA of residence is not updated then the designated HA may be incorrect.

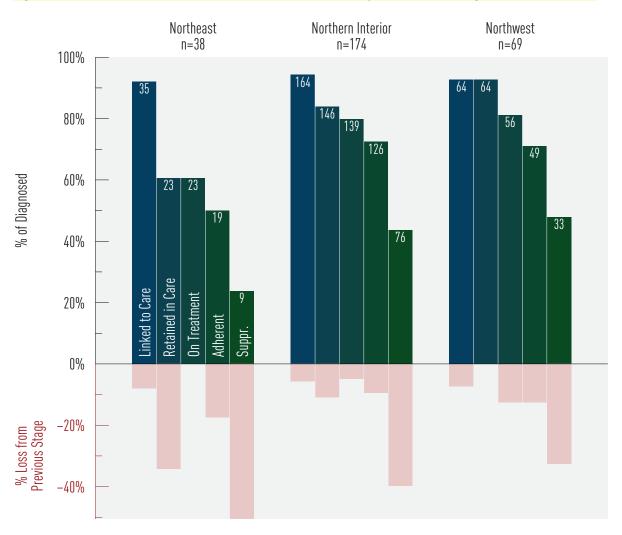
Recent updates to the DTP database have allowed for more comprehensive information on HIV risk group category. As a result, 2014 Q4 data may differ significantly from preceding reports in terms of total numbers ascribed to each risk group.

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

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

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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 Northern Health, 2013 Q4-2015 Q3 10

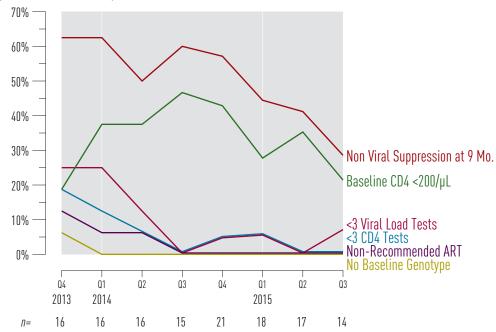
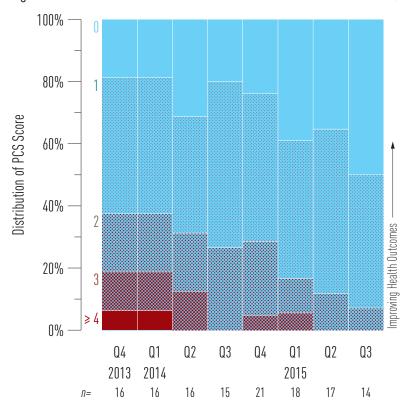


Figure 6.2 Historical Trends for PCS Score for Northern Health, 2013 Q4-2015 Q3 10,11



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

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 0 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 Northern Health

Figure 7 BC-CfE Drug Treatment Program Enrollment: New ART Participants in Northern 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 Northern Health, 2012 Q1-2013 Q4 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.

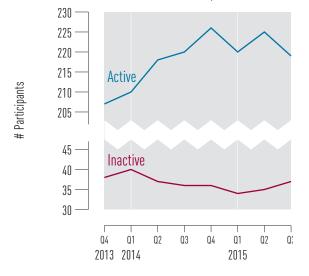
¹³ Data Source: Drug Treatment Program Database Limitations: CD4 cell count data is approximately 80% complete.

Indicator 9. Active and Inactive DTP Participants

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

Age	< 30	13
	30-39	50
	40-49	66
	≥ 50	90
Gender	Male	138
	Female	81
Exposure	MSM	29
	PWID	120
Total		219

Figure 9 Active and Inactive DTP Participants for Northern 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 Northern 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.

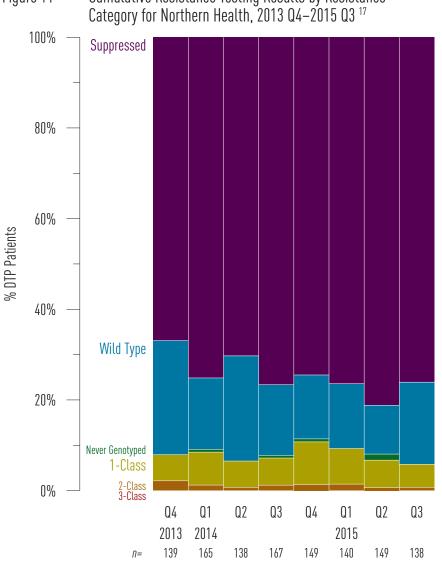


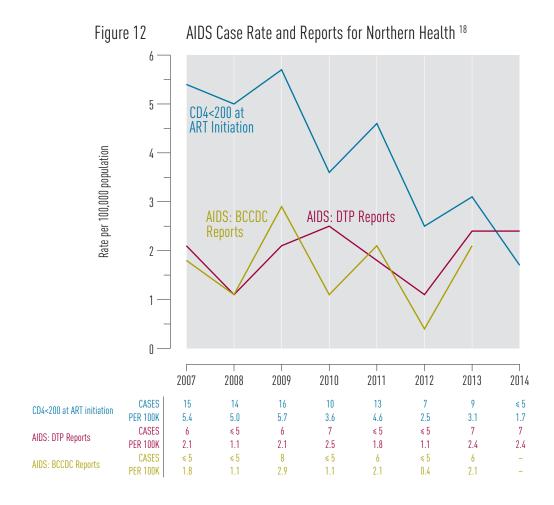
Figure 11 Cumulative Resistance Testing Results by Resistance

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 1 Episodes (l: Test (thousands)	2010 Q4	2011 Q1	Q2	Q3	Q4	2012 Q1	Q2	Q3	Q4	2013 Q1	Q2	Q3	Q4	2014 Q1	Q2	Q3	Q4	2015 Q1	Q2	Q3
Northern H		2.5	3.0	2.7	2.9	2.8	3.4	3.1	3.2	3.3	3.7	3.6	3.5	3.5	4.2	3.8	3.8	4.0	4.7	$\frac{Q^2}{4.0}$	4.1
Gender	Female	1.7	2.0	1.8	1.9	1.9	2.2	2.0	2.1	2.1	2.3	2.3	2.2	2.2	2.6	2.3	2.4	2.5	2.9	2.5	2.5
Gender	Male	0.7	0.9	0.8	0.8	0.8	1.1	1.0	1.0	1.1	1.2	1.2	1.1	1.2	1.4	1.3	1.3	1.4	1.6	1.4	1.4
	Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Female (Pr		0.8	1.0	0.9	1.0	0.9	1.0	0.9	0.9	1.0	1.0	0.9	0.9	0.9	1.0	0.8	0.9	1.0	1.0	0.9	0.9
	on-prenatal)	0.9	1.0	0.9	1.0	1.0	1.2	1.1	1.2	1.2	1.3	1.4	1.3	1.3	1.6	1.5	1.5	1.5	1.9	1.6	1.6
Age	< 30	1.2	1.4	1.3	1.4	1.4	1.6	1.5	1.5	1.5	1.6	1.5	1.6	1.5	1.6	1.4	1.6	1.6	1.6	1.5	1.6
1150	30-39	0.7	0.8	0.7	0.8	0.7	0.9	0.8	0.8	0.8	0.9	0.9	0.8	0.8	1.0	0.9	0.9	1.0	1.0	1.0	1.0
	40–49	0.7	0.3	0.7	0.3	0.7	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.5
	±0−±2 ≥ 50	0.2	0.3	0.3	0.3	0.3	0.5	0.4	0.5	0.4	0.4	0.4	0.6	0.7	0.9	0.8	0.8	0.9	1.3	0.9	0.9
POC HIV		0.2		0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.0	0.0	0.0	0.7	0.5	0.0	0.0	0.7	1.5	0.7	0.5
(not in tho		45	19	49	54	52	83	74	60	65	137	123	151	110	140	137	91	102	183	71	125
Northeast		0.6	0.7	0.7	0.7	0.7	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.8
	Non-prenatal		0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Male (0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Northern I	Interior	1.3	1.5	1.4	1.4	1.5	1.8	1.6	1.7	1.8	2.0	2.0	2.0	2.0	2.5	2.3	2.2	2.3	3.0	2.4	2.4
	(Non-prenatal)		0.5	0.4	0.5	0.6	0.7	0.5	0.6	0.7	0.7	0.8	0.8	0.7	1.0	0.9	0.9	0.9	1.3	1.0	1.0
Male (Tron premium,	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.9	0.8	0.8	0.8	1.1	0.9	0.9
Northwest		0.6	0.7	0.6	0.7	0.6	0.7	0.8	0.8	0.7	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.9	0.9	0.9	0.9
	Non-prenatal)		0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Male (тчон-ртеници,												0.3								
Mate		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator 2	2: Rate of HIV	Testing	per 10	00,00	0																
			200			010		2011		201			13		2014						
All Northe	rn Health		3594.		353			711.7		4228.		455			94.5						
Northeast			3925.		369			011.6		4252.		421			89.8						
Northern I	nterior		3541.		348			711.1		4349.		485			01.3						
Northwest			3398.		347			440.1		3971.		429			90.5						
Gender	Female		5052.		495			170.2		5732.		608			07.7						
	Male		2127.		213			270.3		2748.		305			25.3						
Age	< 30		4427.		433			584.9		5031.		506			76.7						
	30–39		7610.		734			927.0		8328.		861			63.6						
	40-49		2647.		274			919.8		3418.		381			35.7						
	≥ 50		1201.	.9	124	6.9	13	303.5		1978.	4	272	8.3	35	99.3						
					'10 '	11			2012	2		20)13			2014			20	15	
Indicator 3	3: New HIV D	iagnoses					Q2 Q	3 Q4			Q3	Q4 (2 Q3			Q2 (Q3 Ç		1 Q2	Q3
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	j	By Provid	er Ada	dress	2	4	9	5 (5 5	4	3	0	3	8 3	3	2	5	3	2	1 2	2
Gender]	Female			0	1	5	1 3	3 1	2	0	0	0	3 1	0	1	0	1	1	0 0	2
]	Male			2	3	5	4 2	2 4	2	3	0	3	5 2	3	1	5	3	1	1 2	
Age		< 30			0	0	4	1 2	2 1	0	0	0	0	2 0	0	0	1	2	1	0 0	0
-		30-39			0	1	4		2 0		0	0		5 0		1	0	0	1	0 2	
	4	40-49			2	2	1	2 () 1	2	2	0	1	0 0	1	1	0	0	0	1 0	0
		≥ 50			0	1	1	1 1	1 3	1	1	0	2	1 3	1	0	4	2	0	0 0	1
Exposure		MSM			0	0	1		1 0		1	0	1	1 0		0	1	1	0	0 –	_
•		PWID			2	3	5	1 3	3 3	2	1	0	0	2 0	2	1	0	0	1	0 –	_
		HET			0	1	3	3	1 2	2	0	0		5 2		1	3	1	1	0 -	_
		Other			0	0	0		0 0		0	0	0	0 1		0	1	1	0	0 -	_
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NT (I T		,	Provi				0	1) (0	0	0	0	0	0	0	0				0	1	0	0	1
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Indicator 4:	Stage of	HIV	nfect	ion a	at Ba	selir	1e																					
	Northe					emal				N	/ale				< 31	0 yea	ars		2	30-3	9 ve	arc			40-4	49 ye	arc	
	'10 '11			'10				' 14	'10			13	' 14	'10				' 14					' 14				'13	' 14
Stage 0	2 3		3 4	0	2	0	2	2	2	1	0	1	2	0	1	0	0	1	0	1	0	2	0	1	1	0	0	0
Stage 1	2 5		2 0	0	2	1	0	0	2	3	4	2	0	0	1	1	0	0	0	1	0	2	0	2	1	1	0	0
Stage 2a	4 2		1 3	1	1	1	0	0	3	1	1	1	3	0	2	0	1	2	4	0	0	0	1	0	0	0	0	0
Stage 2b	1 6		1 2	1	2	1	0	1	0	4	1	1	1	1	0	0	0	0	0	3	1	0	0	0	2	1	0	2
-								0	2		2	7				0	0	-			0	3	0					
Stage 3				4	1	0	2			3			3	0	1			0	1	2				3	1	1	1	0
Unknown	0 4	_	1 2	0	2	0	0	0	0	2	1	1	2	0	1	0	0	1	0	2	0	0	1	0	0	1	1	0
Total	15 24	12 1	7 14	6	10	3	4	3	9	14	9	13	11	1	6	1	1	4	5	9	1	7	2	6	5	4	2	2
	≥ 5	0 years	6		Ν	ИSМ				P	WID			I	Tete	rose	xual		Ot	her l	Expo	sur	e	N	IR/U	Unkı	nown	1
	' 10 ' 11			'10	' 11	'12	' 13	' 14	'10	' 11	' 12	13	' 14	'10	' 11	'12	' 13	' 14			12 '					'12		' 14
Stage 0	1 0	0	1 3	0	0	0	1	1	1	2	0	1	1	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0
Stage 1	0 2	3	0 0	0	0	1	1	0	2	4	3	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Stage 2a	0 0	2	0 0	1	0	0	0	1	2	0	1	1	0	1	2	1	0	1	0	0	0	0	0	0	0	0	0	1
Stage 2b	0 1		1 0	0	2	0	0	0	0	0	1	0	1	1	3	1	1	1	0	1	0	0	0	0	0	0	0	0
Stage 3	2 0		5 3	0	1	0	1	0	4	2	1	1	0	2	1	1	6	2	0	0	0	1	1	0	0	0	0	0
Unknown	0 1		0 0		0	0	0	0	0	3	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0
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Northern H	Iealth		of Ca	re		DI	AGN	28	32		LIN	264	1	R	ETA	234	1			218		ADI		194	5	SUPP		18
Northern H	lealth ry < 30		of Ca	re		DI	IAGN	28	32 20		LIN	264 15	1 5	R	ETA	234	1 l			218 9		ADI		194 8	5	SUPP	1	18 4
Northern H	lealth ry < 30 30–3	39	of Ca	ire		DI	AGN	28 2 5	32 20 58		LIN	264 15 55	1 5 5	R	ETA	234 11 53	1 1 3			218 9 49		ADI		194 8 43	5	SUPP	1	18 4 24
Northern H	ry < 30 30-2 40-4	39 19	of Ca	re		DI	IAGN	28 2 5	32 20 58 79		LIN	264 15 55 77	1 5 7	R	ETAI	234 11 53 69	1 1 3			218 9 49 64		ADI		194 8 43 57	5	SUPP.	1	18 4 24 26
Northern H Age Categor	Tealth ry < 30 30-3 40-4 ≥ 50	39 19				DI	IAGN	28 2 5 7 12	32 20 58 79 25		LIN	264 15 55 77 117	1 5 7 7	R	ETAI	234 11 53 69 101	1 1 3)			218 9 49 64 96		ADI		194 8 43 57 86	5	SUPP	1	18 4 24 26 64
Northern H Age Categor Age Categor	Tealth ry < 30 30-3 40-4 ≥ 50	39 19	<	< 30		DI	AGN	28 2 5 7 12 ≤	32 20 58 79 25 5		LIN	264 15 55 77 117 ≤ 5	1 5 7 7	R	ETA	234 11 53 69 101 ≤ 5	1 1 3 9			218 9 49 64 96 ≤ 5		ADI	:	194 8 43 57 86 ≤ 5	5	SUPP.	1	18 4 24 26 64 ≤ 5
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Northern H Age Categor Age Categor	Tealth ry < 30 30-3 40-4 ≥ 50	39 19		< 30 30–39 40–49		DI	AGN	28 2 5 7 12 ≤	32 20 58 79 25 5 5		LIN	264 15 55 77 117 ≤ 5	1 5 7 7 7	R	ETAI	234 11 53 69 101 ≤ 5 € 5	1 1 3 3 9 1 5 5			218 9 49 64 96 ≤ 5 ≤ 5 6		ADI	:	194 8 43 57 86 ≤ 5 ≤ 5	5	SUPP	1 \$ \$	18 4 24 26 64 ≤ 5 ≤ 5 2
Northern H Age Categor Age Categor and MSM	ry < 30 30-3 40-4 ≥ 50 ry MSM	39 49 M	4	< 30 30–39 40–49 ≥ 50		DI	IAGN	28 2 5 7 12 ≤	32 20 58 79 25 5 5 8 22		LIN	264 15 55 77 117 ≤ 5 ≤ 5 20	1 5 7 7 5 7 7	R	ЕТА	234 11 53 69 101 ≤ 5 6 18	1 1 3 9 1 5 5 6 3			218 9 49 64 96 ≤ 5 ≤ 5 6 17		ADI	:	194 8 43 57 86 ≤ 5 ≤ 5 6 15	5	SUPP	1 \$ \$	18 4 24 26 64 ≤ 5 ≤ 5 2 10
Northern H Age Categor Age Categor and MSM	ry < 30 30-3 40-4 ≥ 50 ry MSM	39 19	4 2 2	< 30 30-39 40-49 ≥ 50 < 30	9	DI	IAGN	28 22 5 7 12 \$\leq\$	32 20 58 79 25 5 5 8 22 6		LIN	264 15 55 77 117 ≤ 5 20	1 5 7 7 7 7 9	R	ETAI	234 111 533 69 1011 ≤ 5 6 18	1 1 3 3 9 1 5 5 5 6 3 3			218 9 49 64 96 ≤ 5 ≤ 5 6 17 2		ADI	:	194 8 43 57 86 ≤ 5 ≤ 5 6 15	\$	SUPP	1 \$\frac{1}{2}\$	18 4 24 26 64 ≤ 5 ≤ 5 2 10 0
Northern H Age Categor Age Categor and MSM	ry < 30 30-3 40-4 ≥ 50 ry MSM	39 49 M	3 4 2 1	< 30 30-39 40-49 ≥ 50 < 30 30-39	9	DI	AGN	28 2 5 7 12 ≤ ≤	32 20 58 79 25 5 5 8 22 6		LIN	264 15 55 77 117 ≤ 5 20 6 37	14 55 55 77 77 77 77 77 77 77 77 77 77 77	R	ETAI	234 11 53 69 101 ≤ 5 6 18 4 37	1 1 3 3 9 1 5 5 5 8 8 1			218 9 49 64 96 ≤ 5 ≤ 5 6 17 2 37		ADI	:	194 8 43 57 86 ≤ 5 6 15 1 34	Ş	SUPP	1 < <	18 4 24 26 64 ≤ 5 ≤ 5 2 10 0 18
Northern H Age Categor Age Categor and MSM	ry < 30 30-3 40-4 ≥ 50 ry MSM	39 49 M	4 2 2 1	< 30 30-39 40-49 ≥ 50 < 30 30-39 40-49	9	DI	IAGN	288 22 5 7 7 122 ≤ ≤ 22 33 5 5	332 020 558 779 225 5 5 8 8 222 6 6 838		LIN	264 155 777 1177 ≤ 55 77 200 € 637 500	1 5 5 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9	R	ETA	234 111 533 699 1011 ≤ 55 66 188 44 377 47	14 11 13 13 14 14 17 77			218 9 49 64 96 ≤5 6 17 2 37 44		ADF	:	194 8 43 57 86 ≤ 5 6 15 1 34 40	\$	SUPP	1 \$\frac{1}{2}\$	18 4 24 26 64 ≤ 5 ≤ 5 2 10 0 18 17
Northern H Age Categor Age Categor and MSM	Sealth	39 49 M	3 4 2 1	< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50	9	DI	<u>IAGN</u>	288 22 5 7 7 122 ≤ ≤ 22 3 5 6	332 600 588 779 225 5 5 8 8 222 6 6 888 51		LIN	264 155 777 1117 ≤ 55 77 20 66 377 50 666	14 55 55 77 77 77 77 90 90 90 90 90 90 90 90 90 90 90 90 90	R	ETAI	234 111 53 69 101 ≤ 5 6 6 18 4 37 47 61	14 1 1 3 3 3 9 1 1 1 5 5 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59		ADI	:	194 8 43 57 86 ≤ 5 6 15 1 34	S	SUPP	1 \$\frac{1}{2}\$	18 4 24 26 64 65 5 2 10 0 18 17 37
Northern H Age Categor Age Categor and MSM	Sealth	39 49 M		< 30 60-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30	9 9 9	DI	<u>IAGN</u>	288 22 5 7 122 ≤ ≤ 6 6 1	32 20 58 79 225 5 8 8 222 6 88 81		LIM	264 155 777 1177 ≤ 55 77 200 € 637 500	14 55 55 77 77 77 77 90 90 90 90 90 90 90 90 90 90 90 90 90	R	ETAI	2344 111 533 699 1011 ≤ 55 € 68 44 377 611	14 11 13 13 14 14 17 17 17			218 9 49 64 96 ≤5 6 17 2 37 44		ADI	:	194 8 43 57 86 ≤ 5 6 15 1 34 40	\$	SUPP	1 \$\frac{1}{2}\$	18 4 24 26 64 ≤5 ≤5 2 10 0 18 17 37 3
Northern H Age Categor Age Categor and MSM	Sealth	39 49 M	1 3 4 4 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	< 30 80-3: 40-4: ≥ 50 < 30 80-3: ≤ 30 ≤ 30	9 9 9	DI	<u>IAGN</u>	288 22 5 7 122 ≤ ≤ 6 6 11 1	332 200 558 779 225 5 5 8 8 222 6 6 88 88 11 16		LIM	264 155 557 77 117 ≤ 55 20 66 66 66	14 55 55 77 77 77 77 77 90 90 90 90 90 90 90 90 90 90 90 90 90	R	ETAI	234 111 53 69 101 ≤ 5 6 6 18 4 37 47 61	14 11 13 13 14 14 17 17 17			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59		ADI	:	194 8 43 57 86 ≤5 6 15 1 34 40 52	5	SUPP	1 \$\frac{1}{2}\$	18 4 24 26 64 ≤ 5 ≤ 5 2 10 0 18 17 37 5
Northern H Age Categor Age Categor and MSM	Sealth	39 49 M	1 3 4 4 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	< 30 60-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30	9 9 9	DI	IAGN	28 22 5 7 12 ≤ ≤ 6 6 11 12	32 20 58 79 25 5 5 6 8 22 6 6 88 11 16 20		LIN	2644 155 777 1177 ≤ 55 200 666 666	14 55 55 77 77 77 77 77 90 90 90 90 90 90 90 90 90 90 90 90 90	R	ETAI	2344 111 533 69 101 ≤ 5 66 188 44 37 47 61 41 100 17	1			218 9 49 64 96 ≤5 6 17 2 37 44 59 4 9 14		ADF	:	194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11	5	SUPP	1 \$\frac{1}{2}\$	18 4 24 26 64 ≤5 ≤5 2 10 0 18 17 37 3
Northern H Age Categor Age Categor and MSM Status	Verified	39 49 M -MSM		< 30 80-3: 40-4: ≥ 50 < 30 80-3: ≤ 30 ≤ 30	9 9 9	DI	IAGN	28 22 5 7 12 ≤ ≤ 6 6 11 12	332 200 558 779 225 5 5 8 8 222 6 6 88 88 11 16		LIN	264 155 557 77 117 ≤ 55 20 66 66 66	14 55 55 77 77 77 55 56 77 9)	R	ETAI	2344 111 533 69 1011 ≤ 5 66 18 47 47 61 44 10	1			218 9 49 64 96 ≤5 6 17 2 37 44 59 4		ADF		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19	\$	SUPP	1 \$\frac{\sigma}{\sigma}	18 4 24 26 64 ≤ 5 ≤ 5 2 10 0 18 17 37 5
Northern H Age Categor Age Categor and MSM Status	Yealth	39 49 M -MSM		< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	288 22 55 77 122 ≤ ≤ 56 11 12 23 177	32 20 558 79 25 5 5 8 22 6 6 88 51 66 20 35 55 75 75 75 75 75 75 75 75 7		LIN	264 155 777 1177 ≤ 55 50 66 66 66 155 193 31 163	14 55 55 77 77 77 90 90 90 90 90 90 90 90 90 90 90 90 90	R	ETAI	2344 111 533 699 1011 ≤ 5 5 6 6 18 4 37 47 47 61 10 17 22 146	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59 4 9 114 20 1137		ADI		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19 120	\$	SUPP	1	18 4 24 26 64 ≤ 5 ≤ 5 2 10 0 18 17 37 3 5 7
Northern H Age Categor Age Categor and MSM Status	Verified	39 49 M -MSM		< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	288 22 5 5 7 7 122 ≤ ≤ ≤ 6 6 1 1 1 2 2 3 3	32 20 558 79 25 5 5 8 22 6 6 88 51 66 20 35 55 75 75 75 75 75 75 75 75 7		LIN	264 155 777 1177 ≤ 55 20 66 66 66 155 199	14 55 55 77 77 77 90 90 90 90 90 90 90 90 90 90 90 90 90	R	ETAI	2344 111 533 699 1011 ≤ 5 6 6 18 4 37 47 61 4 10 17 22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			218 9 49 64 96 ≤5 6 17 2 37 44 59 4 9 14 20		ADI		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19	S	SUPP	1 \$\frac{5}{2}	18 4 24 26 64 ≤ 5 ≤ 5 2 10 0 18 17 37 3 5 7
Northern H Age Categor Age Categor and MSM Status Gender Injection	Yealth	nown		< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	288 22 55 77 122 ≤ ≤ 56 11 12 23 177	332 000 558 779 225 5 5 8 8 222 6 6 88 51 16 16 16 10 10 10 10 10 10 10 10 10 10		LIN	264 155 777 1177 ≤ 55 50 66 66 66 155 193 31 163	14 55 55 57 77 77 77 90 10 10 10 10 10 10 10 10 10 10 10 10 10	R	ETAI	2344 111 533 699 1011 ≤ 5 68 44 377 47 47 41 10 177 222 1466	1			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59 4 9 114 20 1137		ADI		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19 120	S	SUPP	1	18 4 24 26 64 ≤ 5
Age Categor and MSM Status Gender Injection	Yealth	nown		< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	28 22 5 7 12 ≤ ≤ 6 6 11 12 23 33 17 10 13	332 000 558 779 225 5 5 8 8 222 6 6 88 51 16 16 16 10 10 10 10 10 10 10 10 10 10		LIN	264 15 55 77 117 ≤ 55 20 66 66 66 15 19 31 163 100	14 55 55 77 77 77 55 56 77 90 10 10 10 10 10 10 10 10 10 10 10 10 10	R	ETA	2344 111 533 699 1011 ≤ 55 66 188 44 377 477 611 146 177 222 1466 88	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			218 9 49 64 96 ≤5 6 17 2 37 44 59 4 9 14 20 137 81		ADI		194 8 43 57 86 ≤5 ≤5 6 15 1 34 40 52 4 8 11 19 120 74	S	SUPP	1	18 4 24 26 64 ≤5 2 10 0 18 17 37 3 5 7 17 77 41
Northern H Age Categor Age Categor and MSM Status Gender Injection	ry < 30 30-: 40-4 ≥ 50 ry MSN Non Unk Male Fem PW: Non	nown e ale		< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	28 22 5 7 12 ≤ ≤ ≤ 6 6 11 12 23 17 10 13 9	32 00 58 79 25 5 8 22 6 88 51 16 60 75 77 77 77 77 77 77 77 77 77		LIN	264 155 77 117 ≤ 55 77 20 66 66 66 151 163 100 133	14 55 57 77 77 55 56 77 90 10 10 10 10 10 10 10 10 10 10 10 10 10	R	ETA	234 111 53 69 101 ≤ 5 6 6 18 4 47 61 10 17 22 146 88 129	1			218 9 49 64 96 ≤5 6 17 2 37 44 59 4 9 14 20 137 81		ADI		194 8 43 57 86 ≤ 5 ≤ 5 6 15 1 34 40 52 4 8 11 19 120 74 109	\$	SUPP	1	18 4 24 26 64 ≤5 ≤5 2 10 0 18 17 37 77 41 62
Age Categorand MSM Status Gender Injection Drug Use	ry < 30 30-3 40-4 ≥ 50 ry MSI Non Unk Male Fem PWI Non Unk	nown e ale ID nown		< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	288 22 55 77 122 ≤≤ ≤ 22 33 55 66 11 12 23 37 17 10 13 99 55	32 20 58 79 25 5 8 22 6 88 51 66 20 35 77 77 77 77 77 77 77 77 77 7		LIN	264 155 777 1177 ≤ 55 5 577 200 666 666 155 199 311 163 1000 133 91	1 5 5 7 7 7 7 7 7 9 1 1 8 8 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1	R	ETA	2344 111 533 69 101 ≤ 55 66 188 44 377 611 100 177 222 1466 888 129 80	4 1 1 1 3 3 3 3 3 3 1 1 7 7 7 7 7 7 7 7 7			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59 14 20 137 81 121 75		ADI		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19 120 74 109 66	\$	SUPP	1	18 4 24 26 64 ≤ 5 2 10 0 18 17 37 3 5 7 17 77 41 62 39
Age Categor and MSM Status Gender Injection Drug Use	Yealth	nown e ale ID nown	3 3 4 4 2 2 2 DD	< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	288 22 55 77 122 ≤≤ ≤ 22 33 55 66 11 12 23 37 17 10 13 99 55	32 20 58 79 25 5 8 22 6 8 8 11 16 20 35 75 75 77 75 75 76 77 77 77 77 77 77 77 77 77		LIN	264 155 77 117 ≤ 55 77 20 66 66 155 19 31 163 100 133 91 40	1 5 5 7 7 7 7 9 1 1 8 8 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1	R	ETA	234 111 533 699 101 ≤ 5 66 188 44 47 61 44 100 17 22 146 88 80 26 26 26 26 26 26 26 26 26 26	14 1 1 1 3 3 3 3 3 1 1 1 7 7 7 7 7 1 1 1 1			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59 14 20 137 81 121 75 22		ADI		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19 120 74 109 66 19	S	SUPP	1	18 4 24 26 64 ≤ 5 2 10 0 18 17 37 3 5 7 17 77 41 62 39 17
Age Categor and MSM Status Gender Injection Drug Use	Variable Variable	nown e ale ID nown	3 3 4 4 2 2 2 DD	< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	28 22 5 7 7 12 ≤ ≤ 6 6 11 12 23 33 17 10 13 16 16 16 16 16 16 16 16 16 16	32 20 58 79 25 5 8 22 6 8 8 11 16 20 35 75 75 77 75 75 76 77 77 77 77 77 77 77 77 77		LIN	264 155 777 1177 ≤ 55 77 200 66 66 66 155 193 31 103 103 103 103 103 103 103 103 103	14 55 55 77 77 55 55 77 77 90 10 10 10 10 10 10 10 10 10 10 10 10 10	R	ETA	234 111 533 69 101 ≤ 5 66 188 47 61 10 17 22 146 88 80 26 30	14 1 1 1 3 3 3 3 9 1 1 1 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59 14 20 137 81 121 75 22		ADI		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19 120 74 109 66 19 25	S	SUPP	1	18 4 24 26 64 ≤5 2 10 0 18 17 37 3 5 7 17 77 41 62 39 17 14
Age Categor and MSM Status Gender Injection	Variable Variable	nown ale ale ID -PWII nown M -MSM	3 3 4 4 2 2 2 DD	< 30 80-39 40-49 ≥ 50 < 30 80-39 40-49 ≥ 50 < 30 40-49 40-49	9 9 9	DI	IAGN	28 22 5 7 7 12 ≤ ≤ 6 6 11 12 23 33 17 10 13 16 16 16 16 16 16 16 16 16 16	32 20 558 79 225 5 5 8 222 6 6 88 11 16 16 20 35 37 75 50 66 63 33 33		LIN	264 155 777 1177 ≤ 55 77 200 66 66 66 155 199 31 163 3100 133 911 40 33 159	14 55 55 77 77 75 55 55 77 90 10 10 10 10 10 10 10 10 10 10 10 10 10	R	ETA	234 111 533 699 101 ≤ 5 66 188 47 61 41 100 177 222 1466 888 1299 800 266 301 151 533 547 547 547 547 547 547 547 547	14 1 1 1 3 3 3 3 9 1 1 5 5 5 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59 4 9 14 20 137 81 121 75 22 29 142 47		ADI		194 8 43 57 86 ≤5 6 15 1 34 40 52 4 8 11 19 120 74 109 66 19 25 127	ę	SUPP	1	18 4 24 26 64 ≤5 2 10 0 18 17 37 3 5 7 17 77 41 62 39 17 14 17 17
Age Categor and MSM Status Gender Injection Drug Use MSM Status	Variable Variable	nown ale ale ID -PWII nown M -MSM nown		< 30 40-4! ≥ 50 < 30 60-3! 40-4! ≥ 50 < 30 60-3! 40-4! ≥ 50 ≥ 50 ⇒ 50 ⇒ 50 ⇒ 60 ⇒ 60	9 9 9	DI	IAGN	28 22 5 7 7 12 ≤ ≤ 6 6 11 12 23 33 17 10 13 16 16 16 16 16 16 16 16 16 16	32 20 558 79 25 5 5 8 8 22 6 6 88 51 16 6 20 35 77 77 97 97 97 97 97 97 97 97		LIN	264 155 777 1177 ≤ 55 7720 666 661 1593 1163 1100 1333 911 40 331 159 71	14 55 57 77 77 55 55 57 77 90 10 10 10 10 10 10 10 10 10 10 10 10 10	R	ETAI	234 111 533 69 101 ≤ 5 66 188 47 61 47 22 146 88 129 80 26 30 151	14 15 15 15 15 15 15 15 15 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17			218 9 49 64 96 ≤5 ≤5 6 17 2 37 44 59 14 20 137 81 121 75 22 29 142		ADI		194 8 43 57 86 ≤5 ≤5 6 15 1 34 40 52 4 8 11 19 120 74 109 66 19 25 127 42	ę	SUPP	1	18 4 24 26 64 65 5 5 2 10 0 18 17 37 7 77 41 62 39 17 14 72 32

Northwest

Indicator 6: Program	ımatic Comp	oliance Scor	e (PCS)							
		2013 Q4	2014 Q1	Q2	Q3		Q4	2015 Q1	Q2	Q3
< 3 CD4 Tests		18.8%	12.5%	6.2%	0.0%		4.8%	5.6%	0.0%	0.0%
< 3 Viral Load Tests		25.0%	25.0%	12.5%	0.0%		4.8%	5.6%	0.0%	7.1%
No Baseline Genotyp	ne	6.2%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
Baseline CD4 < 200 c		18.8%	37.5%	37.5%	46.7%	4	2.9%	27.8%	35.3%	21.4%
Non-Recommended	•	12.5%	6.2%	6.2%	0.0%		0.0%	0.0%	0.0%	0.0%
Non Viral suppression		62.5%	62.5%	50.0%	60.0%		57.1%	44.4%	41.2%	28.6%
PCS Score: 0	71 at 7 1410.	3	3	50.070	3		5	7	6	20.070
PCS Score: 1		7	7	6	8		10	8	9	6
PCS Score: 2		3	3	3	4		5	2	2	1
PCS Score: 3		2	2	2	0		1	1	0	0
PCS Score: 4 or more		1	1	0	0		0	0	0	0
Total (n=)		16	16	16	15		21	18	17	14
	D ADV Dorti		10	10	10			10	1,	
Indicator 7: New DT First Starts	P AKV Parti	6	5	2	4		5	3	4	4
Experienced Starts		5	4	8	6		2	3	5	4
•	10		C ADVA	I " DED I						
Indicator 8: CD4 Cel	II Count at A		on tor ARV-N	Naïve DTP I	articipants					
$CD4 \ge 500$ $CD4 \ 350-499$		1 1	_	_	_		-	-	_	_
			_	_	-		-	-	_	-
CD4 200-349		2	_	_	_		_	_	_	_
CD4 50-199		2	_	_	-		_	_	_	_
CD4 < 50	r)	0	_	_	-		_	-	-	_
CD4 Median (cells/µl	۵)	280	_ 	_ 	- / E		- -	- - 5	- -	-
Total (n=)		6	≤ 5	≤ 5	≤ 5		≤ 5	≤ 5	≤ 5	≤ 5
Indicator 9: Active as			pants							
Active DTP Participa		207	210	218	220		226	220	225	219
Inactive DTP Particip	pants	38	40	37	36		36	34	35	37
Indicator 10: Antiret	roviral Adhe	erence								
≥ 95%		_	_	_	5		5	-	_	_
80% to < 95%		_	_	_	2		2	_	_	_
40% to < 80%		_	_	_	0		0	_	_	_
< 40%		_	-	_	0		0	_	-	-
Total (n=)		≤ 5	≤ 5	≤ 5	7		7	≤ 5	≤ 5	≤ 5
Indicator 11: Resista	nce Testing a	nd Results								
Suppressed		93	124	97	128		111	107	121	105
Wild Type		35	26	32	26		21	20	16	25
Never Genotyped		0	1	0	1		1	0	2	0
1-Class		8	12	8	10		14	11	9	7
2-Class		3	2	1	2		2	2	1	1
3-Class		0	0	0	0		0	0	0	0
Total (n=)		139	165	138	167		149	140	149	138
Indicator 12: AIDS-I	Defining Illn	ess	2007	2008	2009	2010	2011	2012	2013	2014
CD4 < 200 at	Cases		15	14	16	10	13	7	9	<u>≤</u> 5
ART initiation	Rate per 1	00,000	5.4	5.0	5.7	3.6	4.6	2.5	3.1	1.7
AIDS Cases	Cases		6	≤ 5	6	7	≤ 5	≤ 5	7	7
(DTP Reports)	Rate per 1	00,000	2.1	1.1	2.1	2.5	1.8	1.1	2.4	2.4
AIDS Cases	Cases		≤ 5	≤ 5	8	≤ 5	6	≤ 5	6	
(BCCDC Reports)	Rate per 1	00,000	1.8	1.1	2.9	1.1	2.1	0.4	2.1	_
Indicator 13: HIV-Re	elated Morta	litv	2004	2005	2006	2007	2008	2009	2010	2011
Northern Health		;	7	6	7	8	6	<u>2009</u> ≤5	<u>2010</u> ≤5	<u>2011</u> ≤5
Per 100 HIV+ Popula	ation		2.28	1.92	2.21	2.47	1.81	0.89	1.45	1.42
Per 100,000 Populati			2.30	1.95	2.42	2.75	2.11	1.05	1.73	1.72
	-					, 0	1	1.00	1., 0	=