

Seek and Treat to Optimally Prevent HIV/AIDS (STOP HIV/AIDS)

Evaluation and Monitoring



BRITISH COLUMBIA
CENTRE *for* EXCELLENCE
in HIV/AIDS

 *Providence*
HEALTH CARE
How you want to be treated.



Collaborative

- A partnership between BC Ministry of Health and other agencies with the British Columbia Centre for Excellence in HIV/AIDS given the broad evaluation mandate
- Data collaborators include: BCCDC, First Nations Health Authority, MoH datasets, PharmaNet, BCCfE and Vital Statistics.

Database

- Created a cohort of all persons living with HIV in BC via data on testing, HIV treatment/labs and HIV-related care provision
- Data includes:
 - HIV testing and diagnostic data from BC CDC.
 - Treatment and laboratory monitoring data from BC CfE
 - Detailed health records from administrative databases: medical services plan, discharge abstract database, pharmacare, home and community care via MoH
 - Vital statistics (mortality data)
 - First Nations Client File (First Nations status)
- Anonymized, comprehensive, population-based, real world dataset of all interactions between those living with HIV and the care system.

Database (2): Data Lag

- Some datasets/elements are almost real-time (BC CfE 1 month), others lag substantially (DAD 1 year).
- Data refresh (re-linkage) is annual but time consuming and analyses adds yet more time.
- Current data is from 2011

Deliverables

- Broad array of analyses conducted, reported and published including:
 - Cohort building and profile
 - Cascade of HIV Care in BC including stratification by patient demographic, risk or treatment characteristics
 - Treatment outcomes, morbidity and mortality
 - Cost-effectiveness analyses to optimize HIV care
 - Treatment retention and characterization of those not retained in HIV care
 - Estimating HIV incidence
- Quarterly Monitoring Report

QMR Indicators

Testing Episodes

HIV Testing Rate

New HIV Diagnoses

Stage of HIV Infection at Diagnosis

HIV Cascade of Care

Programmatic Compliance Score (PCS)

New Antiretroviral Starts

CD4 Cell Count at ART Initiation

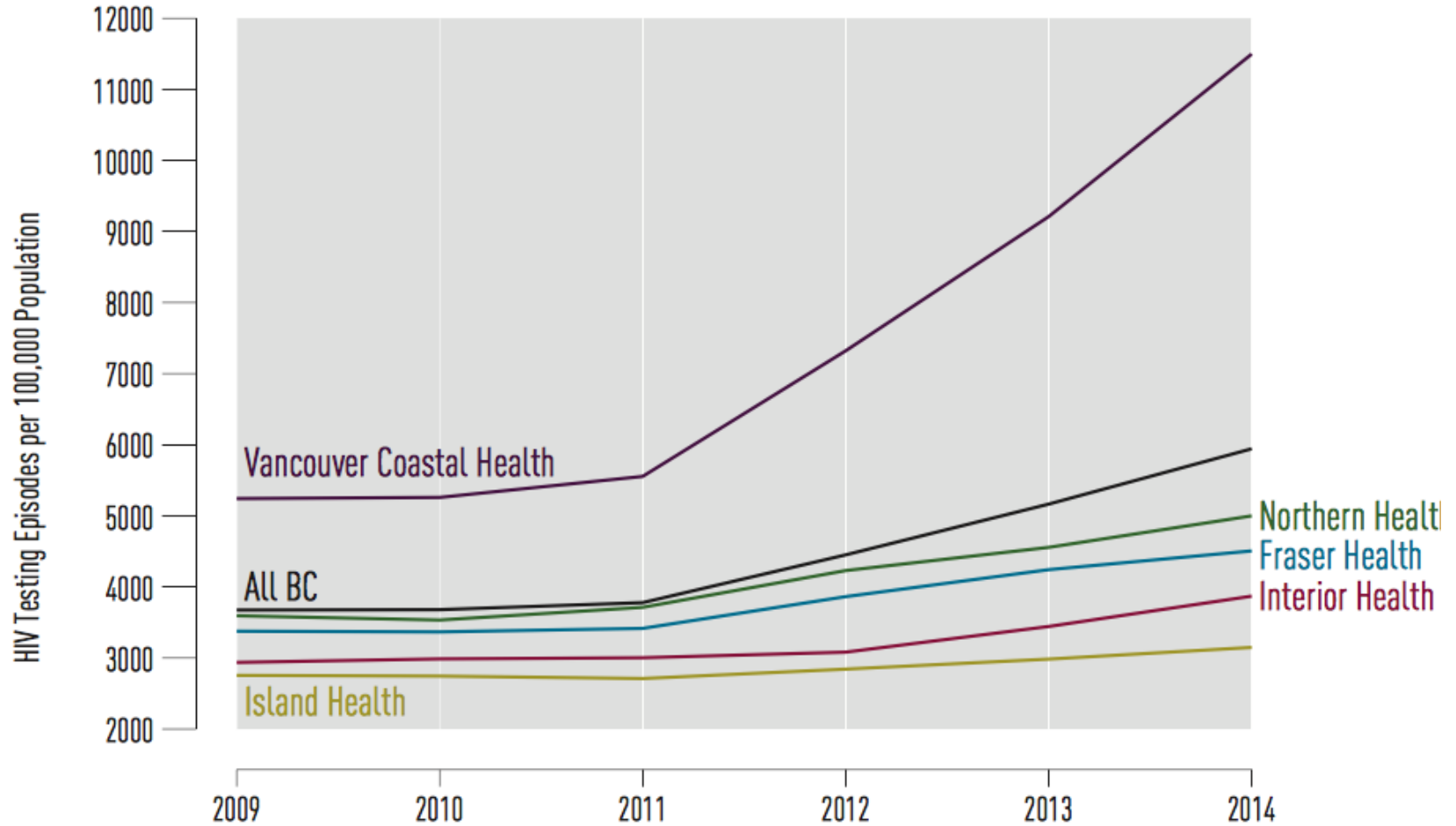
Active and Inactive Drug Treatment Program Participants Antiretroviral Adherence Level

Resistance Testing Results by Resistance Category

AIDS-Defining Illness

HIV-Related Mortality

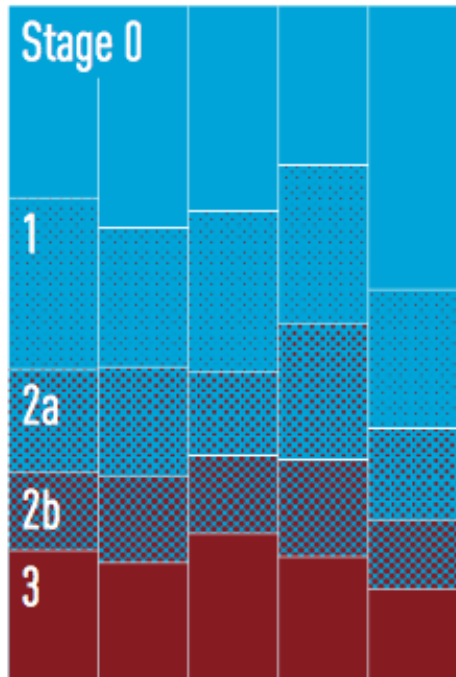
Rate of HIV testing by HA



Stage of HIV Infection at Diagnosis by Exposure Category for BC, 2010–2014

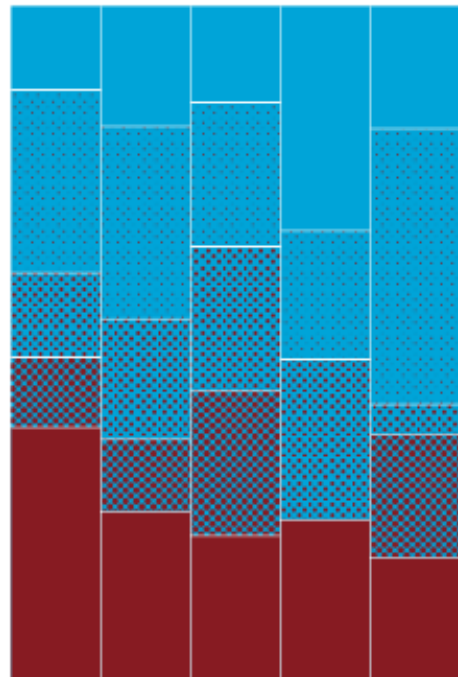
MSM

2010 2011 2012 2013 2014



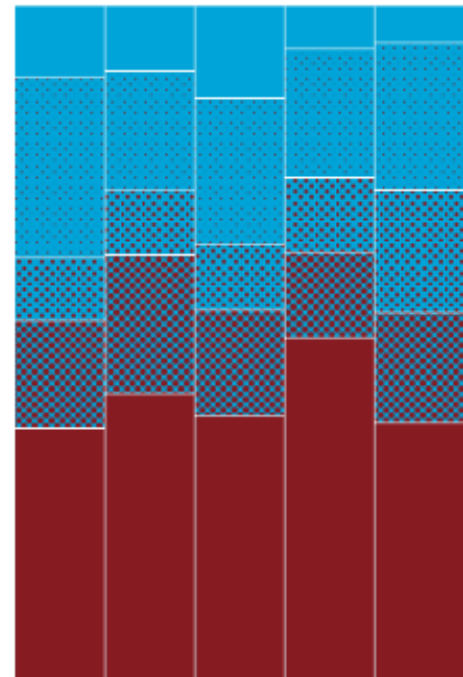
IDU

2010 2011 2012 2013 2014



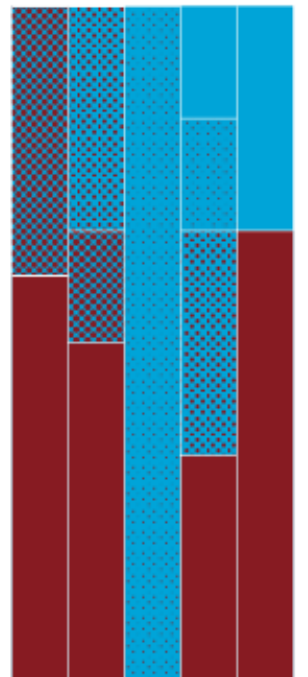
HET

2010 2011 2012 2013 2014

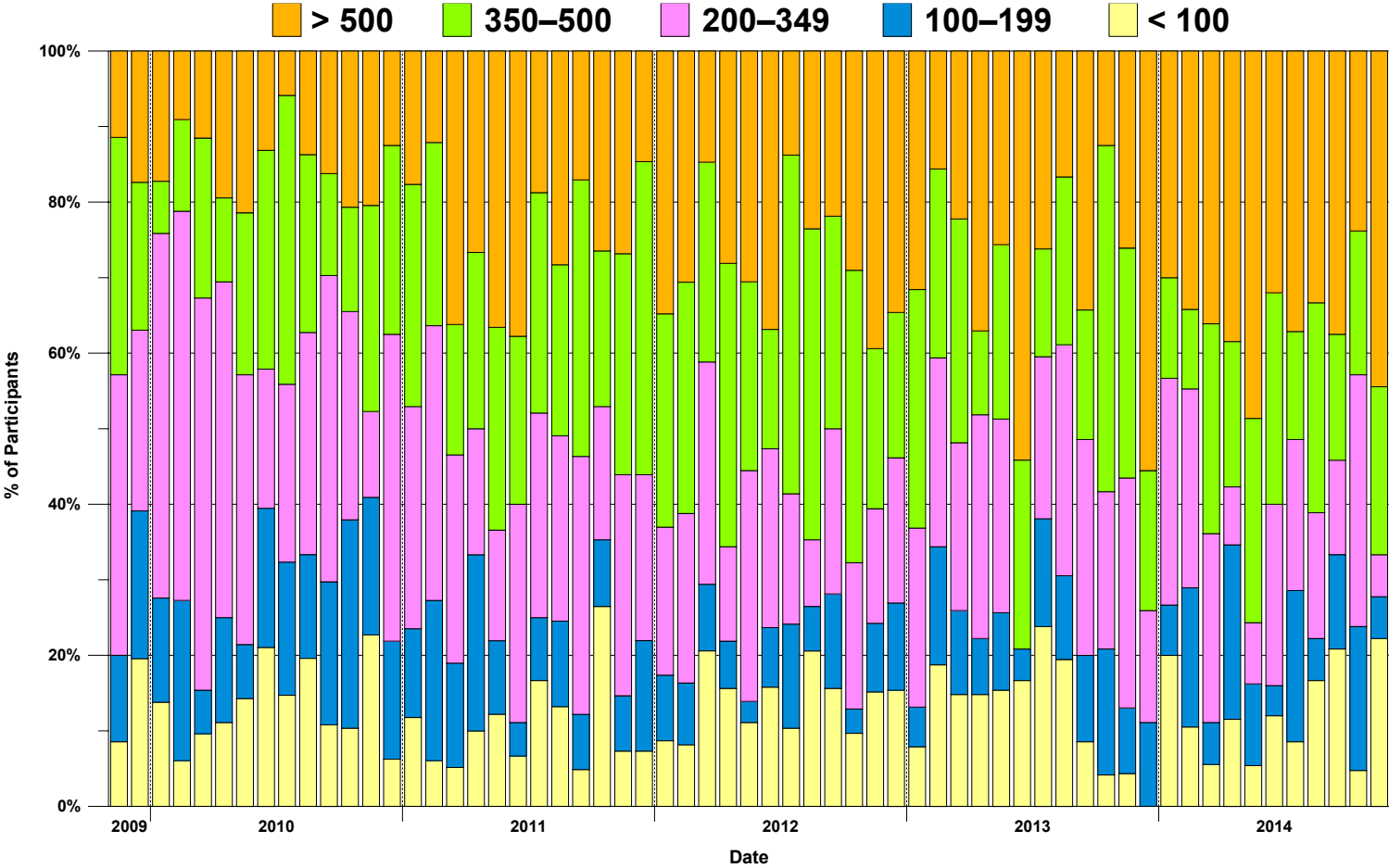


Other

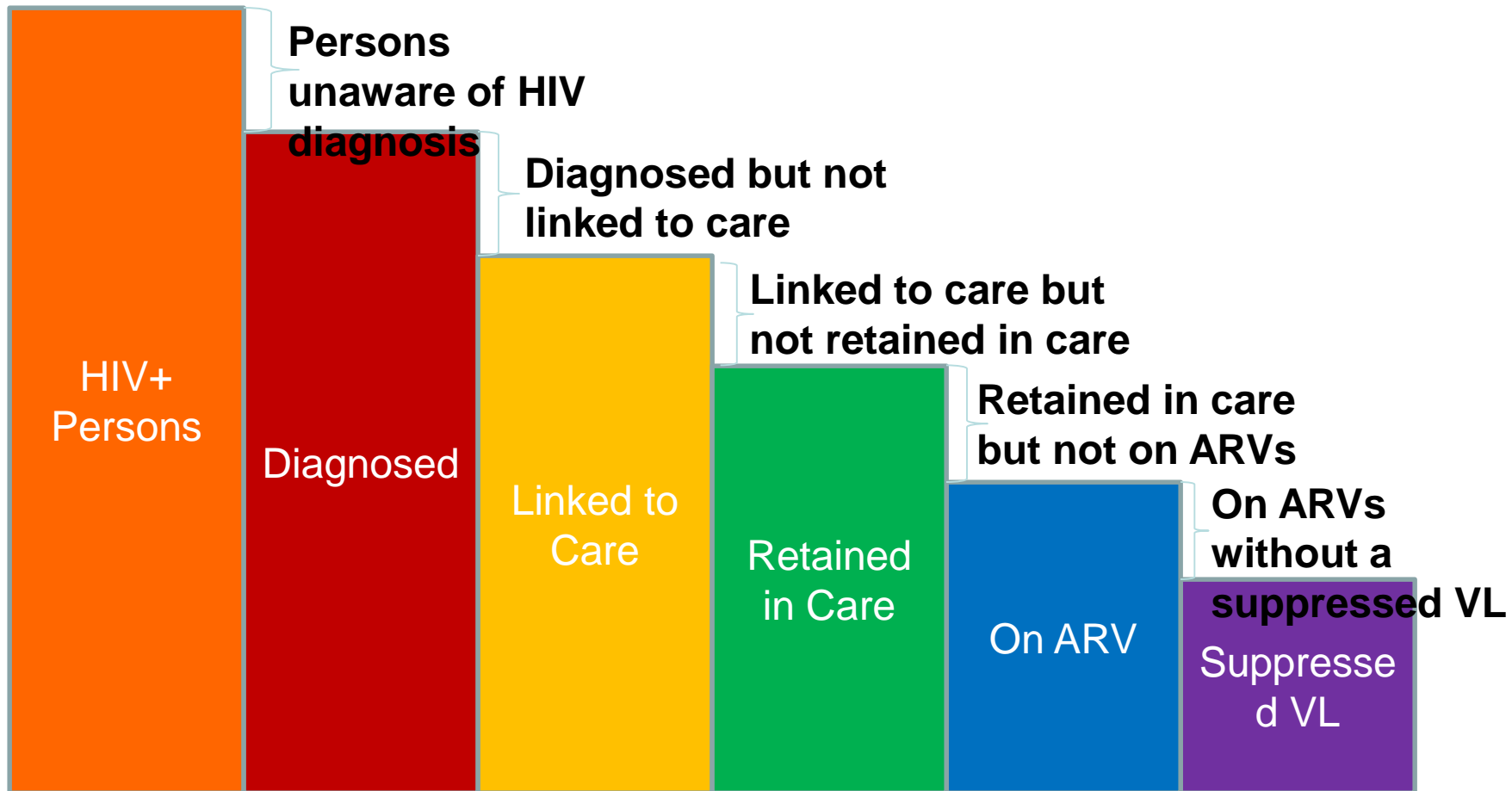
'10 '11 '12 '13 '14



Baseline CD4 Among ARV First Starts



The Cascade of Care



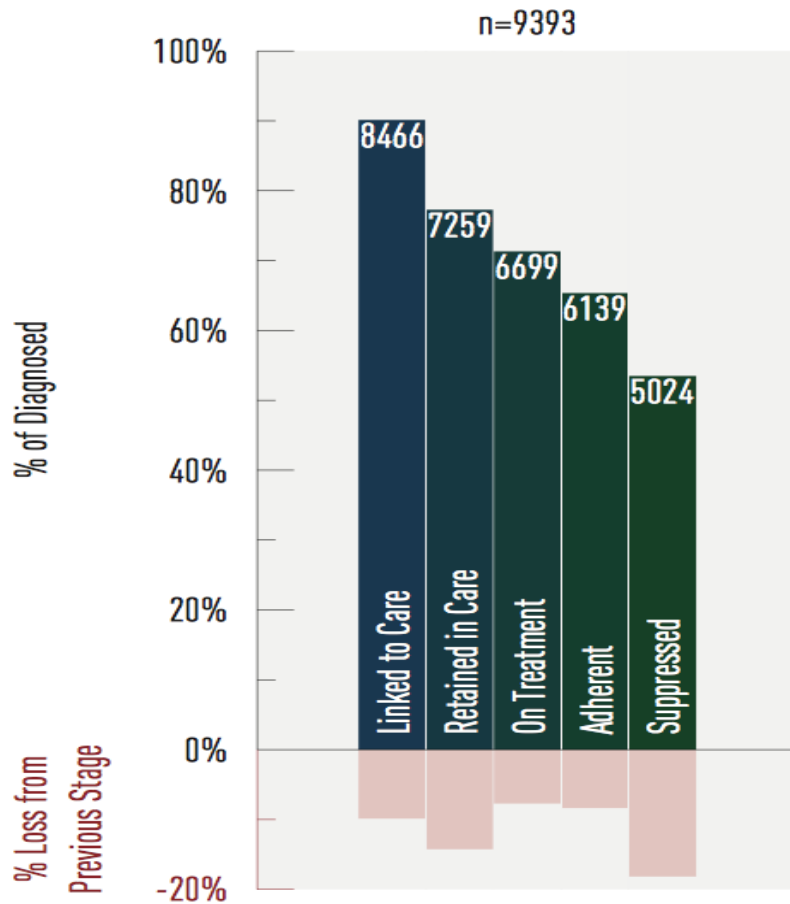
Model based on Gardner et al., 2011 Clinical Infectious Diseases

Cascade Estimation

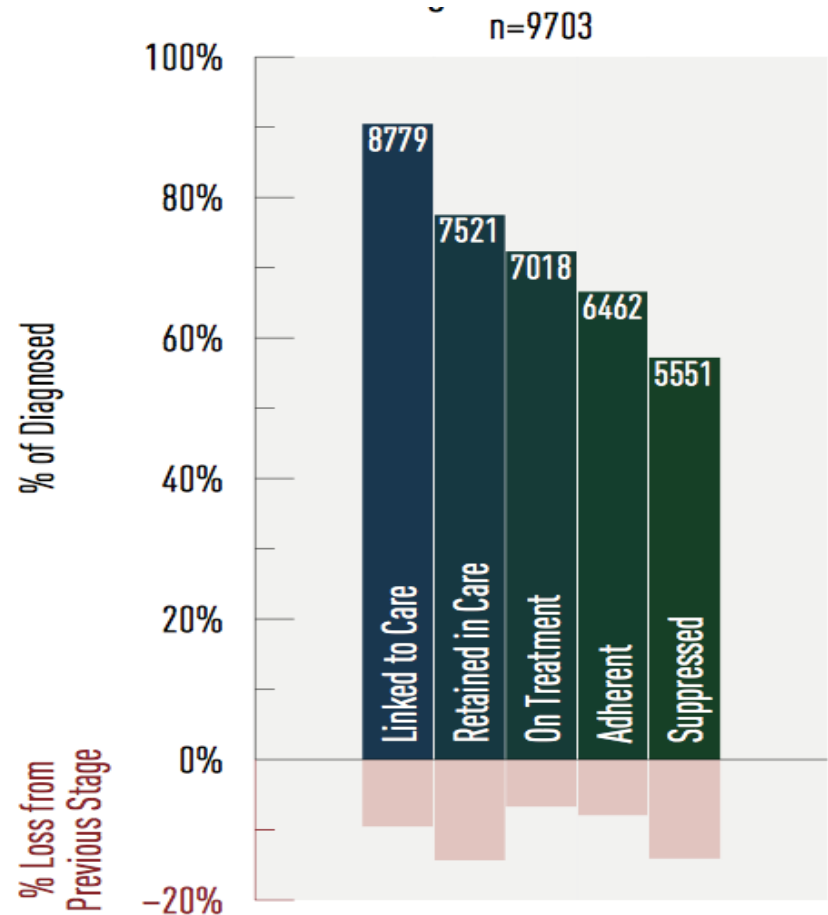
- Cascade must be estimated forward using cascade data from 2011 until data refresh is complete (i.e., projected)
- See technical report for full description
- Complete up-to-date data for all cascade steps is only known for those in the DTP at the CfE- diagnosis to suppression.
- Data refresh complete- 2014 data available in a few months

Cascade of Care BC

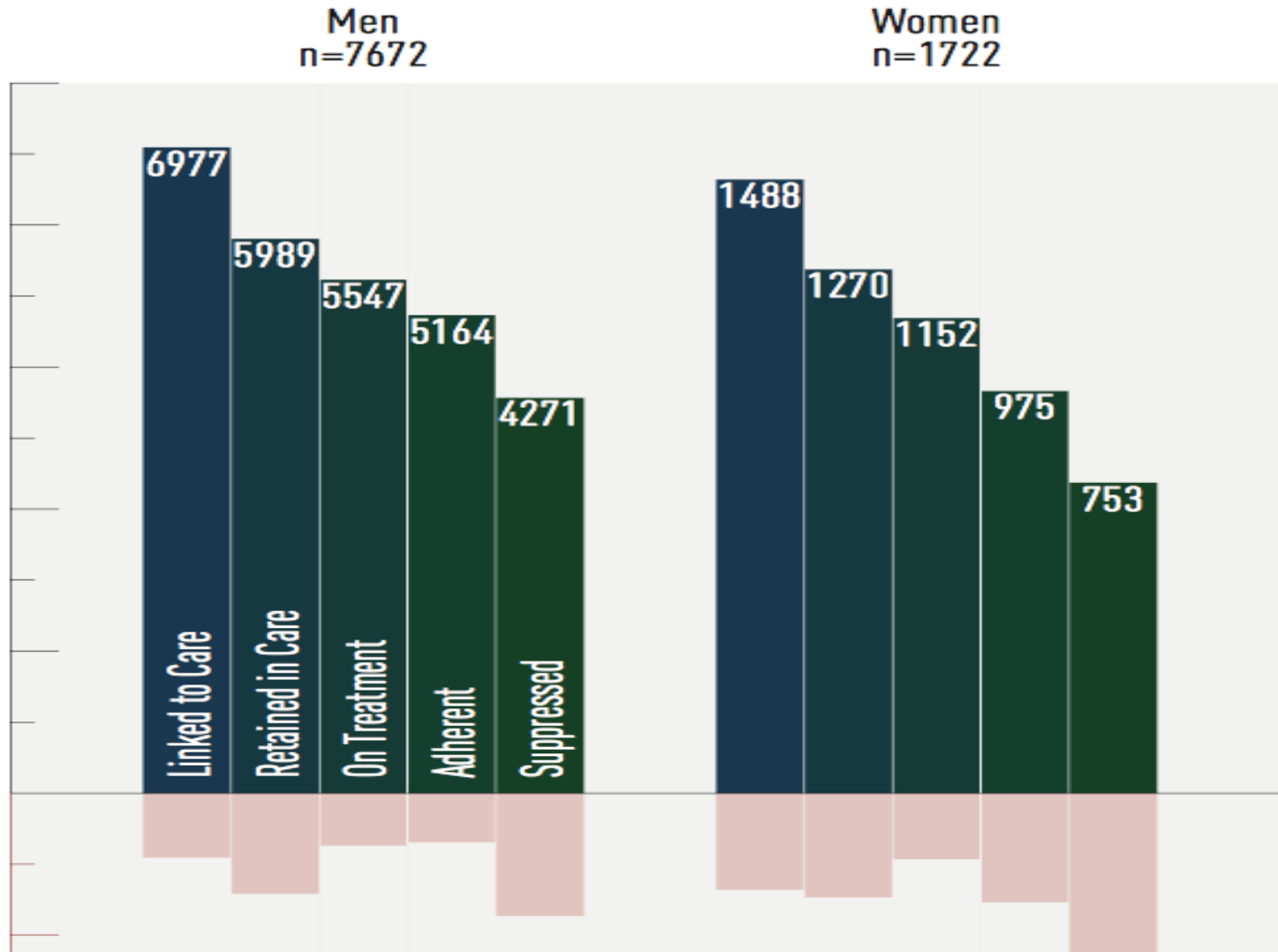
Q2 2013 to Q1 2014



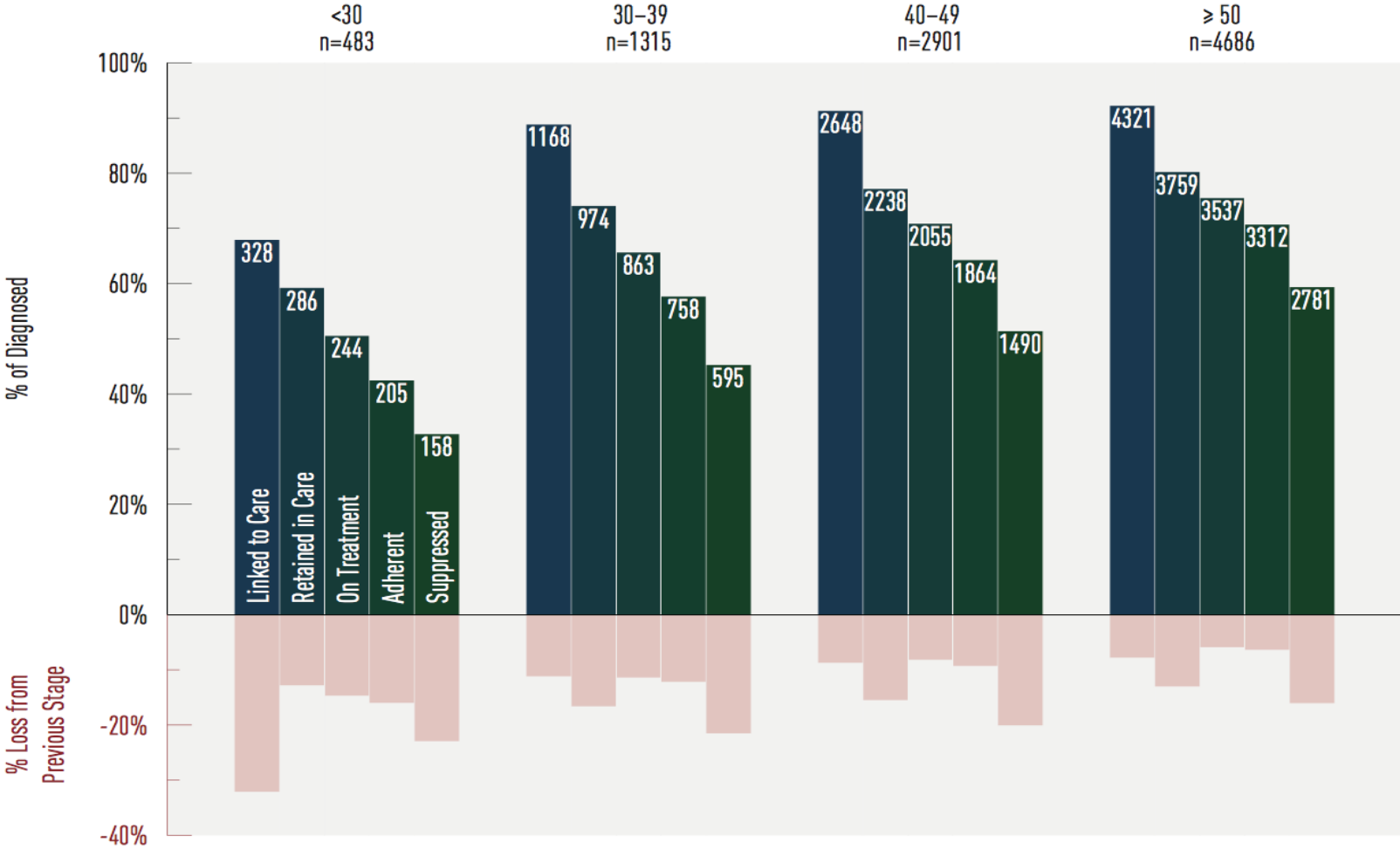
Q3 2014 to Q2 2015



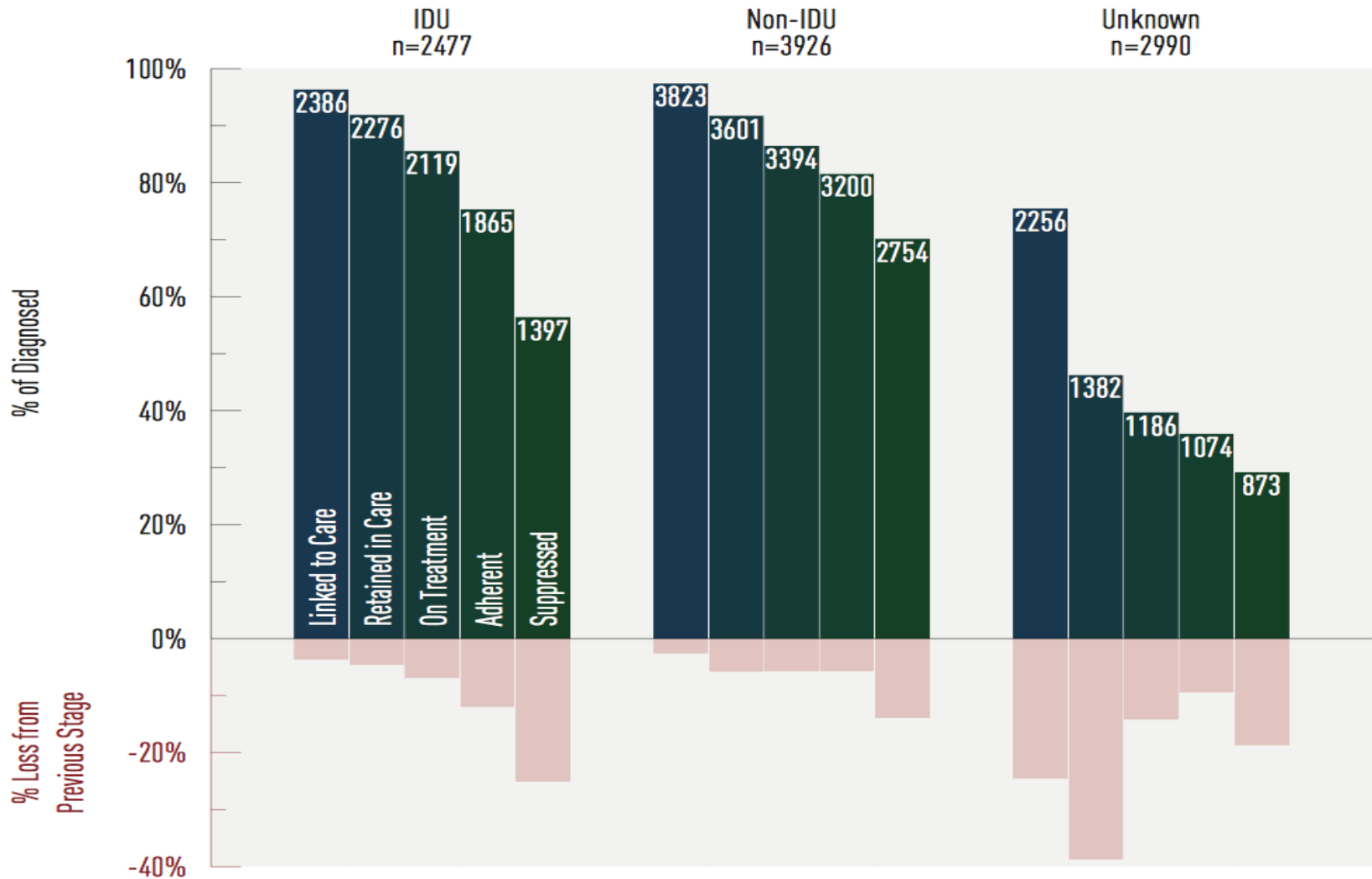
Cascade by Gender BC



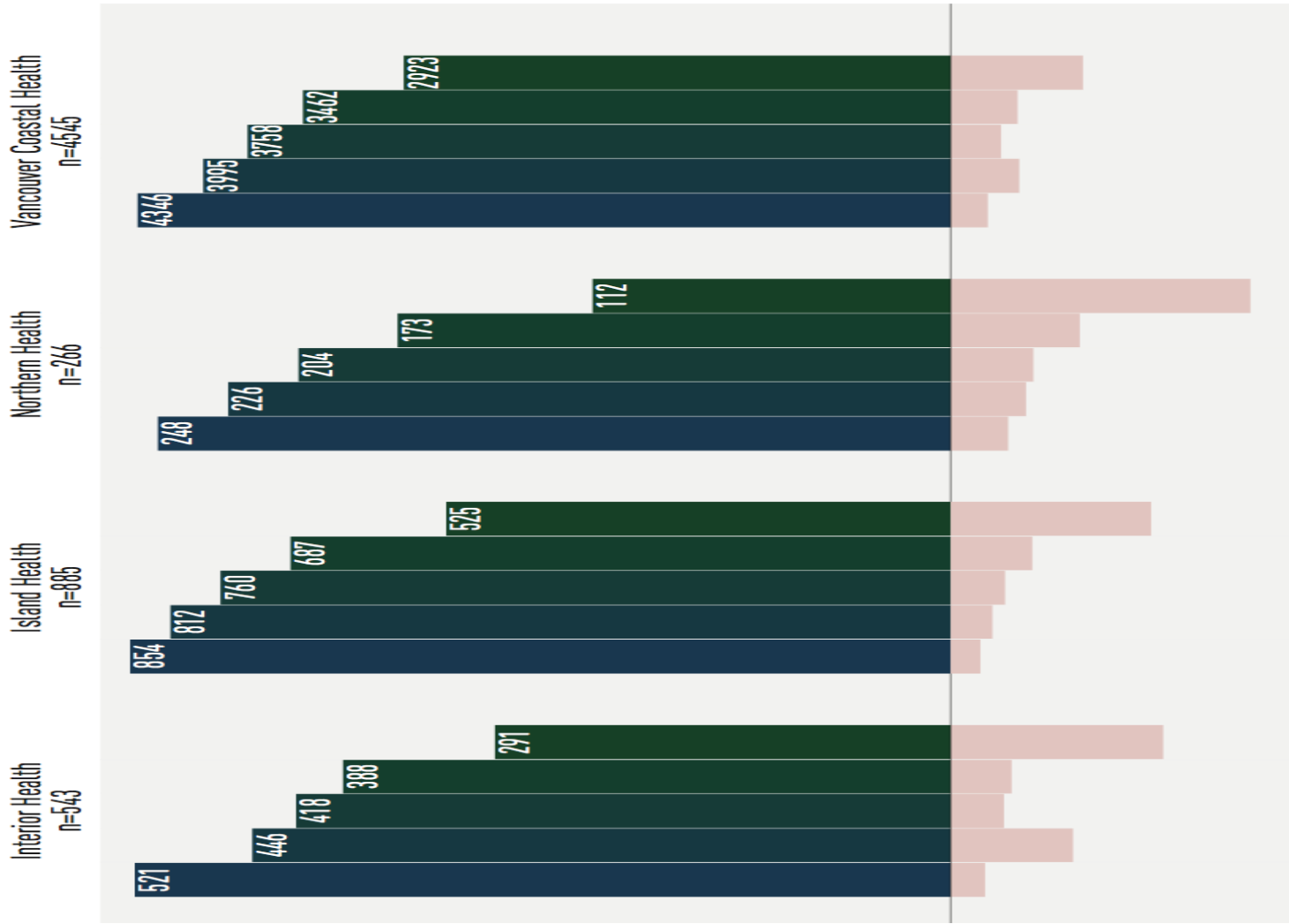
Cascade by Age- BC



Cascade by Risk IDU



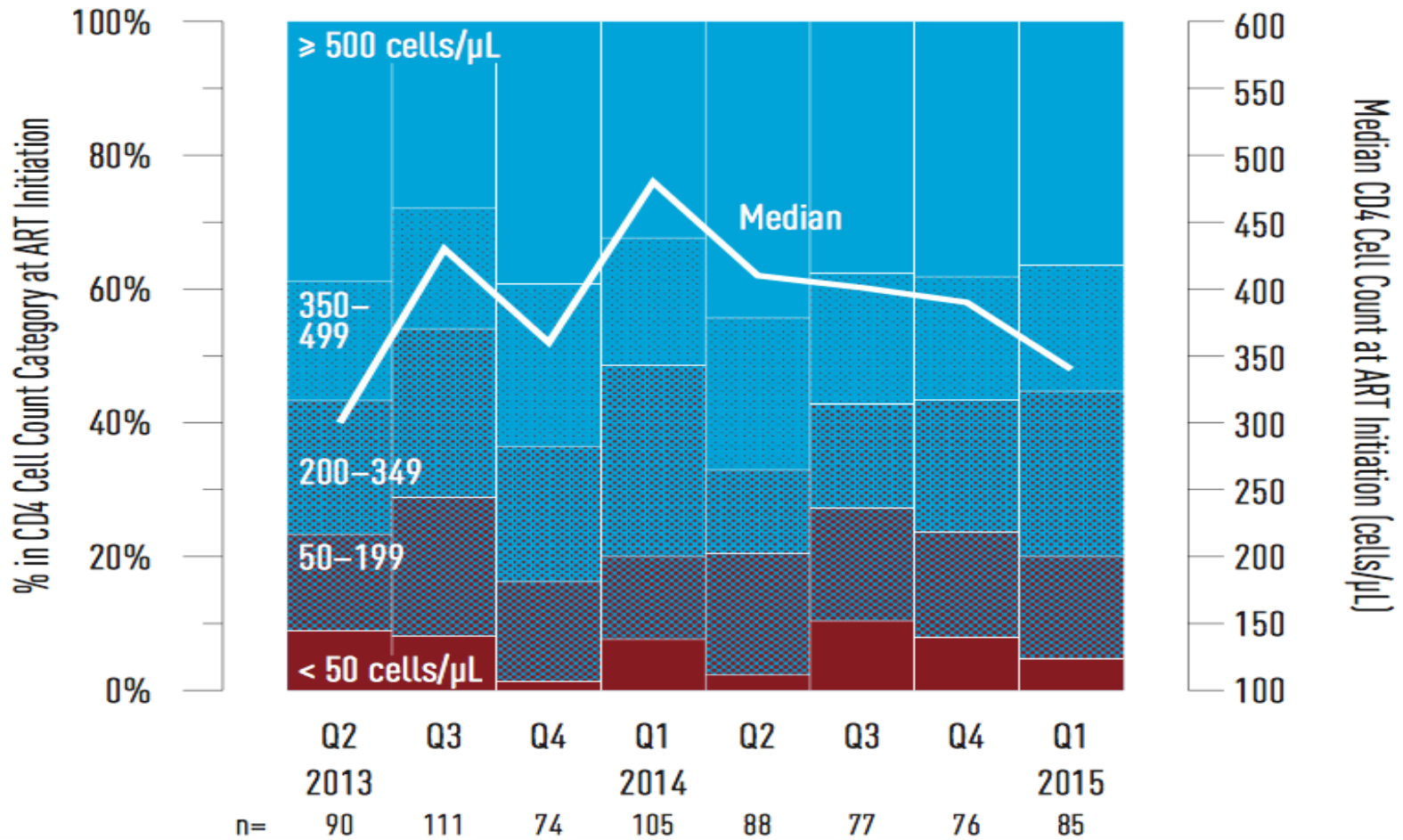
Cascade by Health Authority



Distribution of People on ART for BC by HA

		Fraser	Interior	Island	Northern	Vancouver Coastal	Total BC
Age	< 30	89	15	26	13	143	286
	30–39	257	54	88	53	524	977
	40–49	534	104	229	68	1129	2065
	≥ 50	839	272	479	92	2131	3814
Gender	Male	1322	350	663	143	3459	5940
	Female	397	95	159	83	468	1202
Exposure	MSM	535	128	217	30	1853	2765
	IDU	456	147	276	124	1137	2141
Total		1719	445	822	226	3927	7142

CD4 Cell Count at ART Initiation of ART-Naïve DTP Participants in BC, 2013 Q3–2015 Q2



Current Projects

- Updating the cohort profile via data update
- Effect of Opioid Substitution Treatment on HAART
- Stratification of the Cascade of Care
- Cost-effectiveness analysis to optimize the cascade of HIV care
- HAART retention as a recurrent event process- CHURN
- Characterizing unconfirmed HIV positive cases from STOP cohort
- Characterizing persons not retained in HIV care

Thank you



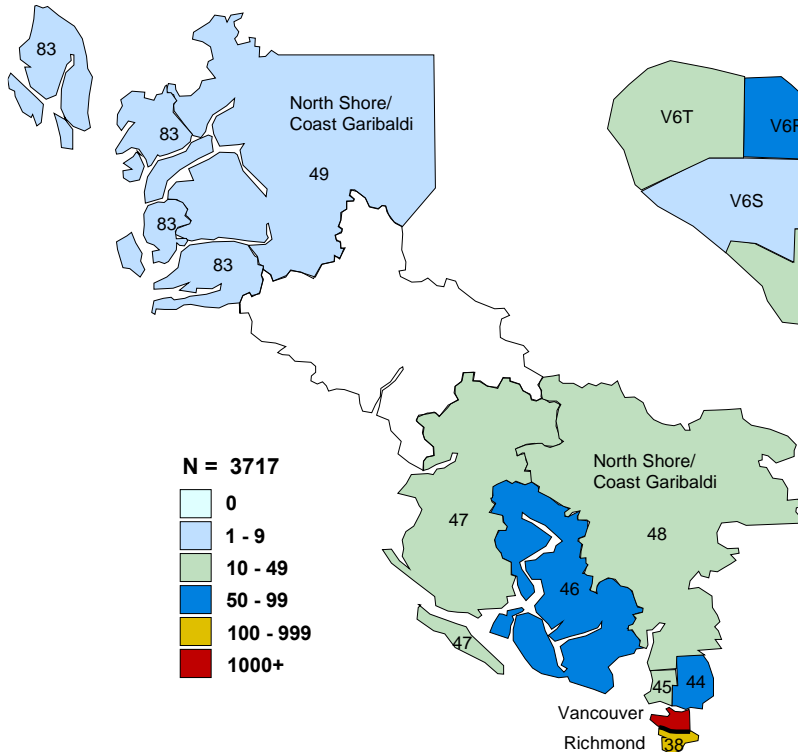
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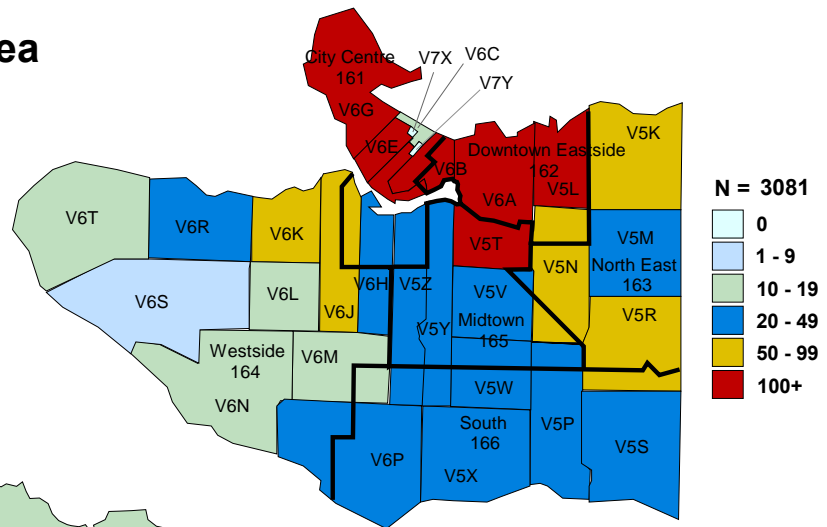


Example: Distribution of Active DTP Participants

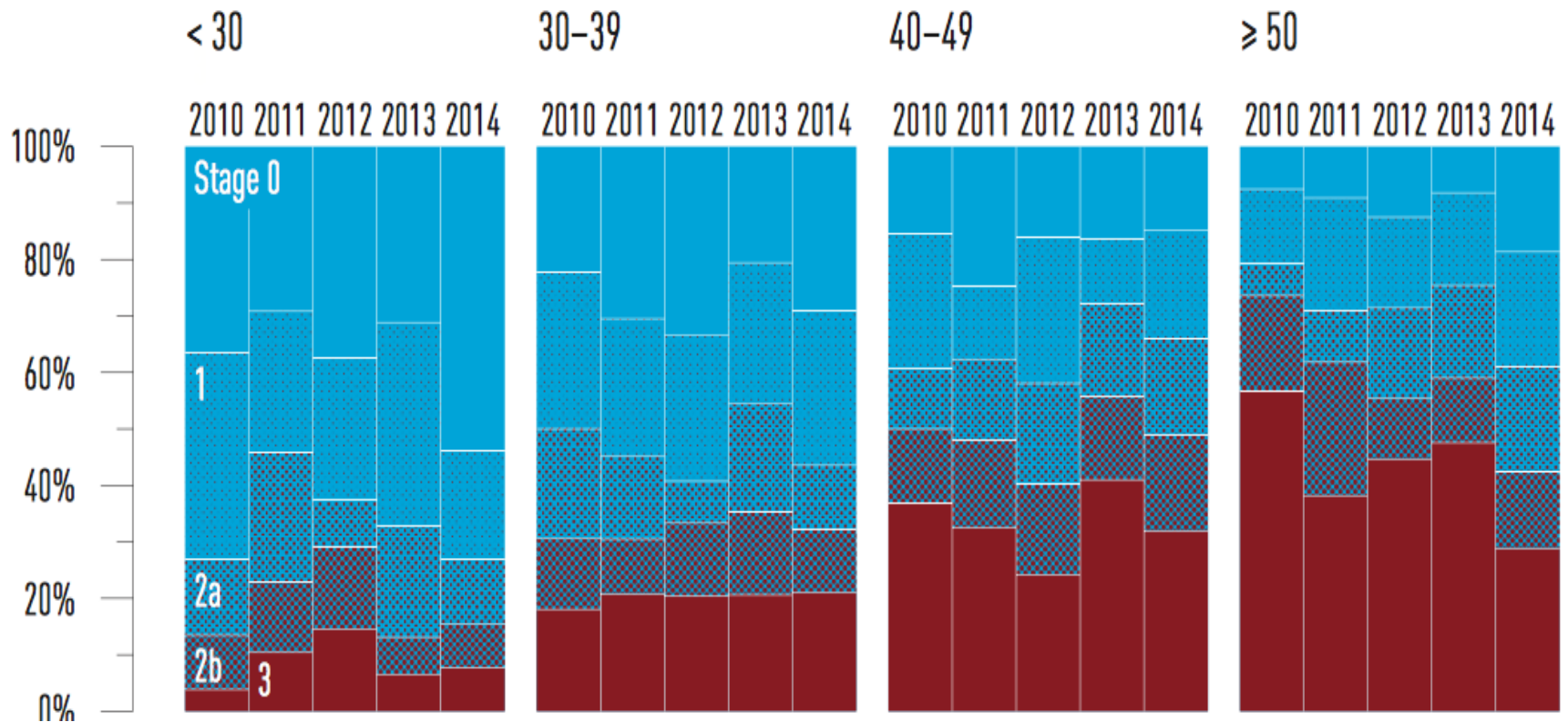
**Vancouver Coastal Health
Authority by Health Services
Delivery Area/Local Health Area**



Vancouver by Postal Code



Stage of HIV Infection at Diagnosis by Age Category for BC, 2010–2014



**GIPA = Greater Involvement
of People with HIV/AIDS**

**MIPA = Meaningful
Involvement of People with
HIV/AIDS**

GIPA/MIPA

GIPA empowers people living with HIV/AIDS to take a leading role in the work that most affects them, acknowledging the valuable contribution they make in advancing the HIV/AIDS movement.

From CAS Website