

Migration information from core HIV Surveillance

POPULATION-based data available (in flat file person view format)

- Residence at HIV diagnosis
- Residence at AIDS diagnosis
- Current residence
- Residence at death
- In reality a new residence could be entered at any point (with every new lab, for example) but lab data do not typically come with residence data
- Recently we've experienced labs without full address data overwriting good address data

Issues (1)

- Residence is dynamic
- Residence may be unconfirmed or unconfirmable
- Residence changes may be made between, after, and before each point it is collected in surveillance (HIV/AIDS/Current/Death)
- For states with local jurisdictions, labs with addresses may go to the state and not the local or vice-versa

Issues (2)

- Laboratory tracking systems are in flux and incomplete
- Locally we are still working with:
 - Lab tracking (King County ?& State)
 - Lab Tracker (State)
 - eHARS labs (State & local)

Supplementary data available

- LOOC & CAPP investigations started 2012
- NOTICE: investigated people who appeared to be out of care (investigations 2007-2011)
 - 5 years of increasingly comprehensive investigations
 - Nearly 3,000 people with no care > 12 months investigates
- State Lab tracking
- State Lab tracker

Findings from Notice (1)

- 8,586 people presumed living at end of 2010
 - Not known to have died/left at serial points 2007-2010
- 2,898 (34%) with >= 1 year no labs 2006-2010
 - 1,563 (54%) relocations among the 2,948
 - 1,333 out of state (85%)
 - 230 out of the county, within the state (15%)
 - 200 (7%) deaths
 - 963 (33%) remained in King County
 - 82 -- or 9% of 963-- without evidence of care
 - 172 (6%) unknown location & care status

Findings from Notice (2)

- Can provide snapshot of PLWHA December 2010
- Period prevalent cohort of people in King County Surveillance system and no care 12 mo+ 2006-2010
- What about people in King County briefly (not at HIV, AIDS, or "current address"?



Recent Care Status (2011 & first half 2012)





Half with gaps (48%) may have relocated

8% continuous residents and 5% in-migrants may have out-migrated



Problems in NOTICE analyses

- Outmigration may have been detected by other means attributed to NOTICE
- Not fully using document-based addresses available in eHARS
- Individuals without KC residence at HIV, AIDS, or currently should probably not have been eligible

Migration by year of HIV diagnosis

Fig. 3: Number of people living with HIV/AIDS as of 12/31/2010 by diagnosis year and in & out-migration status, King County, Washington State, 2006 - 2010



Back to core surveillance

- Examine period prevalent HIV cases 2006-2010
- This period selected due to NOTICE investigations likely capturing outmigration
- Require a lab in lab tracking 2006-2010 OR an HIV diagnosis 2006-2010 to get a 5 year prevalent cohort
- Lab in 2010 overwrote outmigration

Continuous residence, in migration & out migration as of 12/2010 core HIV King County By Transmission category



Continuous residence, in migration & out migration as of 12/2010 core HIV King County By Gender



Continuous residence, in migration & out migration as of 12/2010 core HIV King County By Age



Birthplace

In migrants





Area of country (states of residence) for in- and out- migrants



Figure 2: Number of people living with HIV/AIDS (PLWHA) as of 12/31/2010 using different surveillance definitions and the proportion without reported HIV monitoring laboratory results in 2011; King County, Washington State, USA



2a. People diagnosed with HIV/AIDS

2b. Percent with no laboratory monitoring in 2011



'*'NOTICE = Not In Care Evaluation where individuals with no reported CD4+lymphocyte or plasma viral load tests for 12 months or longer between 2006 and 2010 were investigated.

Impact on Care Cascade?

- If in-migration or out-migration much larger than the other
- If residence at time of HIV alone is used and out-migrants (and deaths) still in the denominators of care, arv, and VL suppression
- Exclude transiently in jurisdiction?
- Can we estimate dates of out-migration (last lab)?