HIV Epidemiology in New York State

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HIV Surveillance in New York State

- HIV Reporting and Partner Services Law implemented June 1, 2000, required reporting to New York State
  - **Laboratories** conducting HIV-related tests required to report results
  - **Medical providers** required to report new diagnoses of HIV, AIDS, and HIV-related illness and known sex or needle-sharing partners

- Other sources of information
  - Medical record review
  - Public health database matches: vital statistics, Medicaid, cancer registry, ADAP, etc.
  - Feedback from data-to-care activities
Trends in HIV and AIDS Cases*
New York State, 1984 – 2013

*Data as of April 2015
^HIV named reporting began in NYS in 2000
Age Distribution of Newly Diagnosed HIV* Cases
New York State, 2013**

N=3,512
Average=36.4 yrs

*Regardless of subsequent or concurrent AIDS diagnosis
**Data as of April 2015
Newly Diagnosed HIV Cases by Year of Diagnosis and Age, New York State, 2002-2013*

*Data as of April 2015
Newly Diagnosed HIV Cases by Year of Diagnosis and Race/Ethnicity, New York State, 2002-2013*

*Data as of April 2015
Newly Diagnosed HIV Cases by Year of Diagnosis and Transmission Risk, New York State, 2002-2013*

*Data as of April 2015
Newly Diagnosed HIV Cases by County of Residence at Diagnosis
New York State, 2013 (Excludes New York City)

EXCLUDING prison inmates

INCLUDING prison inmates

Median Initial* CD4 Count
Persons Newly Diagnosed with HIV  New York State, 2006-2013

*Includes only cases with CD4 count within 3 months of diagnosis.
Cases that developed AIDS with 30 days of HIV diagnosis are included.
HIV case and laboratory data as of April 2015.
Linkage to Care within 3 Months of HIV Diagnosis by Region  New York State, 2013

*Based on less than 20 persons.
New York State Estimated New HIV Infections: 2006-2013

Estimated New HIV Infections (NYS)

Estimated HIV Incidence Rate (NYS)

Produced June 2015 based on January 2015 data
New York State Estimated New HIV Infections by Risk: 2006 - 2013

Produced June 2015 based on January 2015 data
New York State Cascade of HIV Care, 2013
Persons Diagnosed in NYS &† Living at End of 2013

- Estimated HIV Infected Persons: 155,000
- Persons Living w/ Diagnosed HIV Infection: 134,000 (86% of infected)
- Cases w/any HIV Care during the year*: 86,000 (55% of infected)
- Cases w/continuous care during the year**: 74,000 (48% of infected)
- Virally suppressed (n.d. or ≤200/ml) at test closest to end-of-year: 70,000 (45% of infected)

* Any VL or CD4 test during the year
** At least 2 tests, at least 3 months apart
† Persons with residence in NYS at the time of diagnosis alive as of December 31, 2013
Old and new style Cascade populations

Persons diagnosed in NYS and living 12/2013

1. Remove persons with recent non-NYS address

2. Add persons diagnosed in another state with recent NYS address

3. Remove (a) persons with AIDS with no evidence of care for 5 years, and (b) persons with diagnosed HIV (non-AIDS) with no evidence of care for 8 years.

Persons living with diagnosed HIV in NYS, 12/2013
New York State Cascade of HIV Care, 2013
Persons *Residing* in NYS† at End of 2013

<table>
<thead>
<tr>
<th>Category</th>
<th>Estimated Infected Persons</th>
<th>Persons Living w/ Diagnosed HIV Infection</th>
<th>Cases w/any HIV Care during the year*</th>
<th>Cases w/continuous care during the year**</th>
<th>Virally suppressed (n.d. or ≤200/ml) at test closest to end-of-year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>131,000</td>
<td>112,000</td>
<td>87,000</td>
<td>74,000</td>
<td>71,000</td>
</tr>
<tr>
<td><strong>% of infected</strong></td>
<td></td>
<td>86%</td>
<td>66%</td>
<td>57%</td>
<td>54%</td>
</tr>
<tr>
<td><strong>% of PLWDHI</strong></td>
<td></td>
<td></td>
<td>77%</td>
<td>66%</td>
<td>66%</td>
</tr>
<tr>
<td><strong>% of cases w/any care</strong></td>
<td></td>
<td></td>
<td>82%</td>
<td></td>
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</tr>
</tbody>
</table>

* Any VL or CD4 test during the year
** At least 2 tests, at least 3 months apart
† Based on most recent known address, regardless of where diagnosed.
Excludes persons with AIDS with no evidence of care for 5 years and persons with diagnosed HIV (non-AIDS) with no evidence of care for 8 years.
Viral Suppression among Persons Living with Diagnosed HIV Infection by Ryan White Region New York State, 2013

% Viral Suppression

Syracuse
Rochester
New York City
Nassau Suffolk
M. Hudson
L. Hudson
Buffalo
Binghamton
Albany

New York State and region residence based on most recent address known to NYSDOH Bureau of HIV/AIDS Epidemiology.
Viral Suppression among Persons Living with Diagnosed HIV Infection by Risk and Race/Ethnicity: New York State, 2013

% Viral Suppression

**Race/ethnicity**
- White nonHispanic
- Black nonHispanic
- Hispanic
- Asian/PI
- Native Amer.*
- Multirace**

**Risk**
- MSM
- IDU
- MSM-IDU
- Heterosexual
- Female Pres. Het.
- Blood Products
- Pediatric Risk
- Unknown

NYS average 63%

*Based on a small number of persons (n=100).

**Multirace care measures are likely less reliable due to the method used to calculate multirace status.

New York State residence based on most recent address known to NYSDOH Bureau of HIV/AIDS Epidemiology.
Deaths Among Reported HIV and AIDS Cases by Year of Death, New York State, 2002-2013*

*Data as of April 2015
Newly Diagnosed HIV Cases by Year of Diagnosis and Region, New York State, 2002-2013*

*Data as of April 2015
Questions?

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