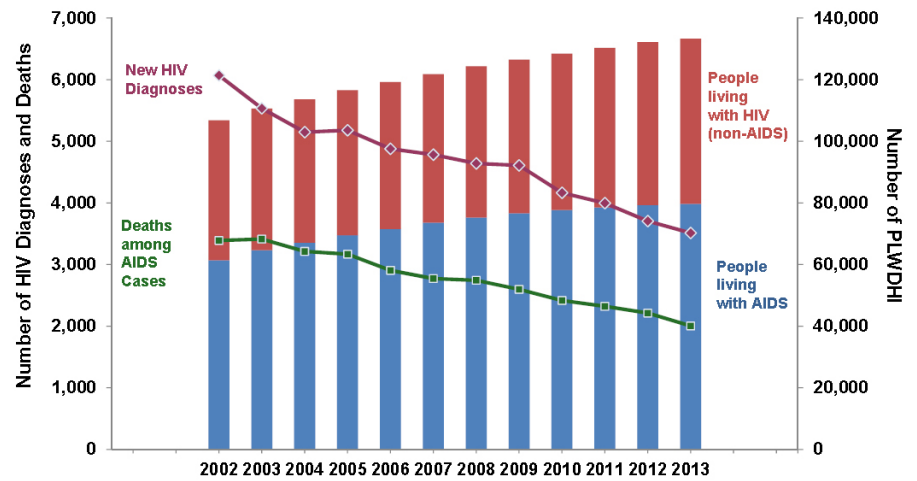# HIV/AIDS: Ending the Epidemic

HIV infection continues to exact a huge toll on individuals in the US, with 879,335 persons living with a diagnosed HIV infection*.

• New York State represents 15% of the total of reported cases in the US, with New York City accounting for 75-80% of those.
• Long Island and the Lower Hudson area represents 8% of New York States cases.

Since the mid-90s, antiretroviral treatment has led to dramatic changes in health outcomes for people living with HIV. Mounting evidence suggests that persons with a suppressed viral load rarely, if ever, transmit HIV to others. Thus, antiretroviral treatment and medical care long-term is essential.

Statistics reference 2010, Source: NYSDOH

*Data as of April 2015. New HIV diagnoses include those diagnosed concurrently with AIDS.
HIV named reporting began in NYS in 2000.

NYSDOH/AI/BHAE

The Collaboration...

Resources:

• Health Resources and Services Administration (HRSA) grant: *Health Information Technology Capacity Building for Monitoring and Improving Health Outcomes along the HIV Care Continuum*
• The AIDS Institute is a unit of NYSDOH that protects and promotes the health of New Yorkers
• Healthix is a publicly funded HIE maintaining data of over 16 Million patients throughout New York City and Long Island

The goal is to enhance the New York State Department of Health's ability to monitor the health and treatment of HIV+ individuals and retain them in care.

Healthix will identify HIV+ persons and the care they are receiving, so NYSDOH can focus public health surveillance efforts to ensure linkage to care, retention in care, antiretroviral therapy, and viral suppression.

Healthix

Healthix is the largest public Health Information Exchange (HIE) in the country, bringing together hundreds of healthcare organizations at more than 1,350 different facilities across New York City and Long Island. Healthix provides secure access to clinical data of more than 16 million patients to improve quality of care, efficiency and effectiveness.

AIDS Institute

The AIDS Institute protects and promotes the health of New York State's diverse population through disease surveillance and the provision of quality prevention, healthcare and support services for those impacted by HIV/AIDS, sexually transmitted diseases, viral hepatitis and related health concerns.

Healthix
Exchanging information to transform patient care.

AIDS Institute
HIV/AIDS STD VIRAL HEPATITIS LGBT HEALTH DRUG USER HEALTH

The Project

Objective	Current NYSDOH Data	Expanded Thru Healthix Reporting
HIV diagnosis	Laboratory (HIV antibody and antigen, CD4 lymphocyte, HIV RNA PCR, genotype resistance testing) and medical provider reporting	Diagnosis codes: all HIV related laboratory data
AIDS diagnosis	Laboratory (HIV antibody and antigen, CD4 lymphocyte, HIV RNA PCR, genotype resistance testing) and medical provider reporting	Diagnosis codes for AIDS associated opportunistic infections: all HIV-related laboratory data
Linkage to Care	Proxy based on laboratory data	Medical visit data and hospital admissions
Retention in care	Proxy based on laboratory data	Medical visit data, inclusive of site and provider type, current address
Antiretroviral therapy	Medical provider report of HIV diagnosis, medical record review confirming HIV diagnosis, intensive reviews of medical records for selected projects or populations (e.g., pregnant women and infants)	Medication list from each medical visit or admission (as available)
Viral suppression	Viral load data from laboratory reporting	Laboratory data

Results Thus Far...

- In March 2015 performed initial patient data export using 12 ICD-9 codes; analyzed variances in diagnoses (e.g., suffixes, text diagnoses); in January 2016 added 4 ICD-10 codes

- 195 healthcare organizations currently contribute data to Healthix, and 73 more are in development

- Initially sent 56,347 CCDs to NYSDOH, with a match of 37,423 (67%)*

- Sending weekly updates to NYSDOH

- Adding new patients on an ongoing basis if criteria are met

* Matched against entire New York State HIV Registry

Healthcare Organizations Contributing Data to Healthix

	Data Elements	Actively Contributing	% of 195
1	Demographics	195	100 %
2	Diagnosis	166	85 %
3	Procedures	105	54 %
4	Encounters	181	93 %
5	Consent	145	74 %
6	Allergies	146	75 %
7	Problem List	103	53 %
8	Medications	115	59 %
9	Lab Results	131	67 %
10	Radiology Results	55	28 %
11	Social/Family History	76	39 %
12	Discharge Summary	25	13 %
13	Advanced Directives	81	42 %
14	Contacts/Next of Kin	69	35 %
15	Clinician Information	149	76 %

Key Activities:

- Obtain agreements/approvals for CCD transfer from Healthix to NYSDOH

- Develop automated processes to identify and transmit CCD data

- Develop automated process to upload/match selected CCD data into HIV Registry

- Incorporate data into the automated sharing of State HIV Registry data with New York City DOHMH, and process feedback

- Expand process to include other data of interest - e.g., housing, sexual orientation, Meaningful Use data elements

What We Learned:

- Existing standards (e.g, ICD and LOINC codes) are not yet uniform across patient data, posing ongoing challenges

- There is a need to develop standards for refreshing and updating the CCD to avoid redundancy

- Flexibility is necessary on the part of vendor-partners for parsing data sent from HIE

NYSDOH's Public Health Node leverages industry standards and protocols to support electronic reporting and data submission. Partners can securely send and receive sensitive data over the internet using widely accepted and supported web technology.

The Healthix project shares data through CCDs today and will use LOINC codes for all labs in the future.