

# Using cross-matched HIV and sexually transmitted disease registry data to estimate adherence to dual screening recommendations in New York City

Laura Stadelmann, MPH<sup>1,2</sup>; Sarah Braunstein, PhD, MPH<sup>2</sup>; Preeti Pathela, DrPH<sup>2</sup>; Colin Shepard, MD<sup>2</sup>  
<sup>1</sup>CDC/CSTE Applied Epidemiology Fellowship, <sup>2</sup>New York City Department of Health and Mental Hygiene

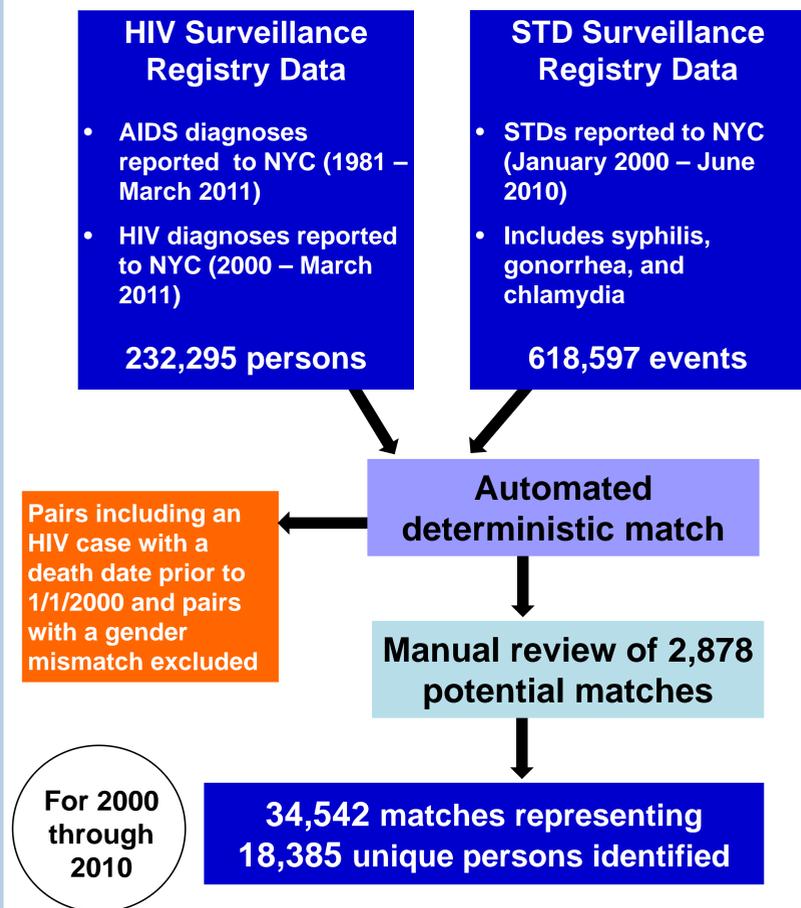
## Background

- Persons diagnosed with both HIV and sexually transmitted diseases (STD) in temporal proximity likely contribute disproportionately to overall transmission of STD and HIV.
- HIV and STD infections have common risk factors and usually occur in similar populations.
- Coinfections can increase HIV viral load and persons with STDs have increased susceptibility to HIV.
  - Treatment can reverse these effects.
  - Treatment of STDs among HIV/STD coinfecting persons has been estimated to provide a 27% reduction in HIV transmission (Rothenberg RB, et al. Sex Transm Dis, 2000).
- CDC testing guidelines recommend dual HIV/STD screening.

**Objective:** To estimate adherence to dual screening recommendations in New York City based on a recent HIV/STD surveillance registry match.

## Methods

### Match Flow Chart

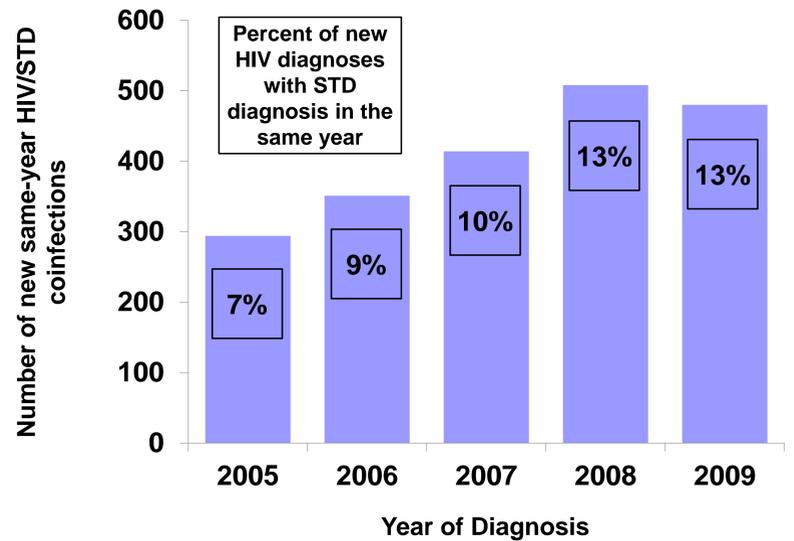


### Analysis Definitions

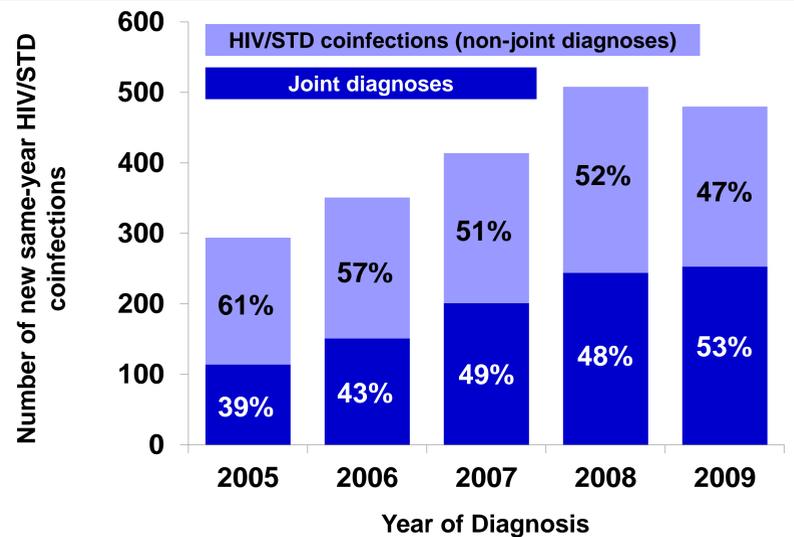
- Descriptive analyses were used to explore coinfections occurring from 2005 – 2009. The following definitions were used:
  - HIV/STD Coinfections** - persons diagnosed with HIV and STD during same calendar year.
  - HIV/STD Joint Diagnoses** - persons diagnosed with HIV and STD during same calendar month. This group was used as a way to examine trends in coinfection diagnoses likely made in the same clinical encounter.

## Results

The percentage of persons newly diagnosed with HIV who also had an STD diagnosis in the same year increased from 7% in 2005 to 13% in 2009.



The proportion of joint diagnoses among all same-year coinfection diagnoses increased from 39% in 2005 to 53% in 2009.



## Conclusions

- Much of the increase in the number of same-year HIV/STD coinfection diagnoses can be accounted for by joint diagnoses.
- This suggests greater dual HIV/STD screening in NYC from 2005-2009.
- This may reflect better adherence to national screening recommendations over time.
- Recommendation:** Continued promotion of dual screening practices in NYC to ensure diagnosis of dually infected individuals.
- Limitations:**
  - Negative results of HIV/STD tests not included → conservative estimate of dual screening practices
  - If a person had multiple STD diagnoses in one year, only the first diagnosis in that year was analyzed → underestimation of joint diagnoses

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