

Epidemiologic Data from the First Full Year of Named HIV Surveillance New York City, 2001



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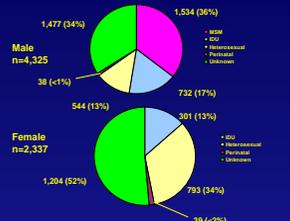
HIV/AIDS in New York City (NYC)

- NYC Population: 8.0 million
- 76,417 (1.0%) persons living with HIV/AIDS
 - 25% of persons living with HIV infection are not yet diagnosed
- 2,494 deaths in 2001 among persons living with HIV/AIDS (1,774 attributable to HIV infection)

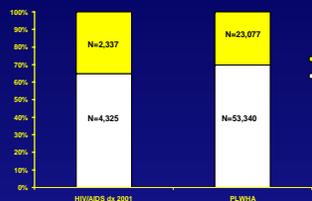
Analysis

- Rates of HIV diagnoses in NYC
- Rate ratios
- Odds ratios
 - Persons diagnosed concurrently with HIV and AIDS (late presenters) vs. HIV (non-AIDS)
- Descriptive comparison
 - Persons diagnosed with HIV in 2001 vs. PLWHA

HIV/AIDS Diagnoses by Sex and Transmission Risk, NYC, 2001



HIV/AIDS Diagnosed in 2001 vs. PLWHA (as of December 31, 2001) by Sex



Summary

- 6,662 diagnoses of HIV were reported in the full first year of HIV reporting in NYC
 - 27% with a concurrent AIDS diagnosis
- Rates higher among males, blacks and Hispanics, and persons aged 30-39 years

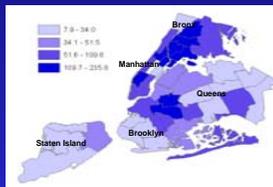
HIV/AIDS Surveillance, NYC: What is Reportable?

Reported HIV/AIDS Diagnoses- NYC, 2001

	N	%
Total	6,662	100
HIV without AIDS	4,846	73
HIV with AIDS*	1,816	27

* AIDS was diagnosed within 31 days of HIV diagnosis

Rate per 100,000 Population of HIV/AIDS Diagnoses by Neighborhood – NYC, 2001



HIV/AIDS Diagnosed in 2001 vs. PLWHA by Race/Ethnicity



Summary

- Persons diagnosed concurrently with HIV and AIDS are more likely to be male, non-Hispanic black, and from boroughs outside of Manhattan
- Compared with PLWHA, persons diagnosed with HIV in 2001 are more likely to be female, non-Hispanic black, and from the Bronx or Brooklyn

Objectives

Rate of HIV/AIDS Diagnoses by Sex and Race/Ethnicity – NYC, 2001

- Describe persons diagnosed with HIV/AIDS in NYC in 2001
- Compare persons concurrently diagnosed with HIV and AIDS (late presenters) with persons diagnosed with HIV non-AIDS
- Compare the population distributions of persons living with HIV/AIDS (PLWHA) with persons diagnosed with HIV in 2001 to better direct NYC HIV prevention resources to those most at risk of acquiring HIV infection

	N (%)	Rate per 100,000	Rate Ratio	95% CI
Sex				
Male	4,325 (65)	114.0	2.1	2.0 - 2.2
Female	2,337 (35)	55.5	1.0	(referent)
Race/Ethnicity				
Black	3,572 (54)	182.0	5.0	4.7 - 5.4
Hispanic	1,954 (29)	90.4	2.5	2.3 - 2.7
White	1,016 (15)	36.3	1.0	(referent)
Asian/PI	89 (1)	11.4	0.3	0.3 - 0.4
Other/Unk.	31 (0.4)	39.8	0.3	0.2 - 0.4

Concurrent HIV/AIDS Diagnose vs. HIV (non-AIDS) Diagnoses by Sex and Race/Ethnicity

	HIV w/ AIDS (n=1,816)	HIV w/out AIDS (n=4,846)	Odds Ratio	95% CI
Sex				
Male	70%	63%	1.3	1.2 - 1.5
Female	30%	37%	referent	-
Race/Ethnicity				
Black	57%	52%	1.3	1.1 - 1.6
Hispanic	28%	30%	1.1	0.9 - 1.3
White	13%	16%	referent	-
Asian/PI	2%	1%	1.5	0.9 - 2.4
Other/Unk.	<1%	<1%	0.5	0.2 - 1.4

HIV/AIDS Diagnosed in 2001 vs. PLWHA by Borough of Residence

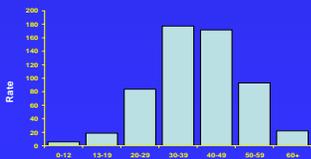


Recommendations

- Incorporate newly available HIV surveillance data into prevention planning in NYC
- Target populations with increased rates of concurrent HIV and AIDS diagnoses for testing and treatment interventions
- Focus prevention efforts in NYC more intensely on women, non-Hispanic blacks, and persons from the Bronx or Brooklyn

Study Population

Distribution of Age Groups, Rate of Reported HIV/AIDS Diagnoses per 100,000 Population - NYC, 2001



- All persons diagnosed with HIV/AIDS as of December 31, 2001 and reported to the NYC DOHMH through September 30, 2003
- Diagnoses from first seven months of named HIV reporting (June - December, 2000) excluded

Concurrent HIV/AIDS Diagnoses vs. HIV (non-AIDS) Diagnoses by Borough of Residence

	HIV w/ AIDS (n=1,816)	HIV w/out AIDS (n=4,846)	Odds Ratio	95% CI
Borough				
Manhattan	24%	29%	Ref.	-
Bronx	22%	26%	1.1	0.9 - 1.2
Brooklyn	31%	27%	1.4	1.2 - 1.6
Queens	17%	12%	1.7	1.4 - 2.0
Staten Island	3%	1%	2.5	1.7 - 3.6
Other/Unk.	4%	5%	0.8	0.6 - 1.1

Limitations of the HIV/AIDS Surveillance System in NYC

- Completeness of HIV reporting is not yet characterized
- Only diagnosed persons are captured by surveillance system
 - 1 in 4 persons with HIV are undiagnosed
- Persons with undetectable viral load and CD4<500 are not reportable

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