Medical Monitoring Project (MMP) Results from the MMP survey of people receiving HIV care in 2009-2010 in NYC

HIV Epidemiology and Field Services Program, Bureau of HIV/AIDS Prevention and Control, New York City Department of Health and Mental Hygiene



Background Medical Monitoring Project (MMP)

- The Centers for Disease Control and Prevention (CDC) estimates that 1.2m persons aged 13 years and older are living with HIV infection, including 207,600 who are unaware of their infection(CDC, HIV Surveillance Supplemental Report 2012)
- In NYC, at the end of 2011 113,319 persons were reported & presumed living with HIV (NYC DOHMH, 2011)
- MMP is a national study of PLWHA receiving outpatient medical care for HIV
- Conducted by CDC with local partners



Objectives Medical Monitoring Project (MMP)

- Develop greater understanding of the health status and health-related needs of PLWHA, and their HIV transmission risk and prevention
- Conduct analysis on locally and nationally representative samples of HIV infected adults in care
- Inform the development and planning of policy and programs for PLWHA, e.g. Ryan White CARE Act planning councils and consortia

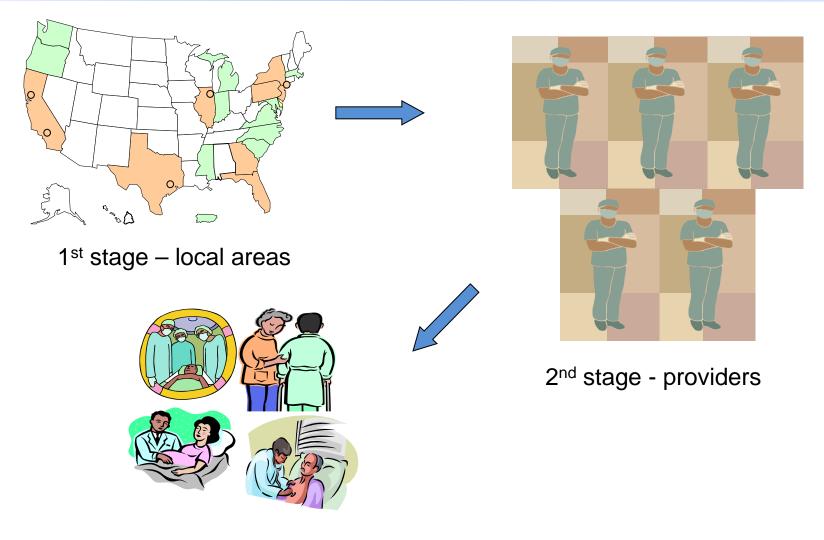


Methods Medical Monitoring Project (MMP)

- Multi-year (2005-open) project of US adults in outpatient care for HIV
- Cross-sectional design
- Annual multi-stage probability sample



Methods Medical Monitoring Project (MMP): 3-stage Sample Design





Methods

Medical Monitoring Project (MMP): Sample Selection

- Stage 1 Local Areas:
 - -26 areas selected (20 states and 6 cities)
 - Probability of selection is proportional to size (PPS) (# of reported living AIDS cases in 2002)
 - Includes >80% of US AIDS cases in 2002



Methods Medical Monitoring Project (MMP): Sample Selection

• Stage 2 – Medical Providers (facilities or private providers):

- Providers who deliver HIV medical care
 - -Monitor CD4 count, viral load
 - -Prescribe ART
- Probability of selection is proportional to size (facilities with higher patient loads are more likely to be selected)



Methods

Medical Monitoring Project (MMP): Sample Selection

- Stage 3 Patients seen by a Selected Provider
 - Randomly sampled
 - Eligibility
 - HIV-infected
 - ≥ 18 years of age
 - received HIV medical care at facility 1/1 4/30 in a given cycle year
 - Participation voluntary; \$40 incentive (MetroCard or cash)



Methods

Medical Monitoring Project (MMP)

- Data collection using 2 sources:
 - Computer-based structured face-to-face interview or phone interview (few) by trained interviewer, conducted in private
 - Medical record abstractions
- Data collected:
 - Clinical status
 - Treatment adherence
 - Service utilization
 - HIV-related service needs
 - Health behaviors (health care utilization, sexual, drug use, prevention)

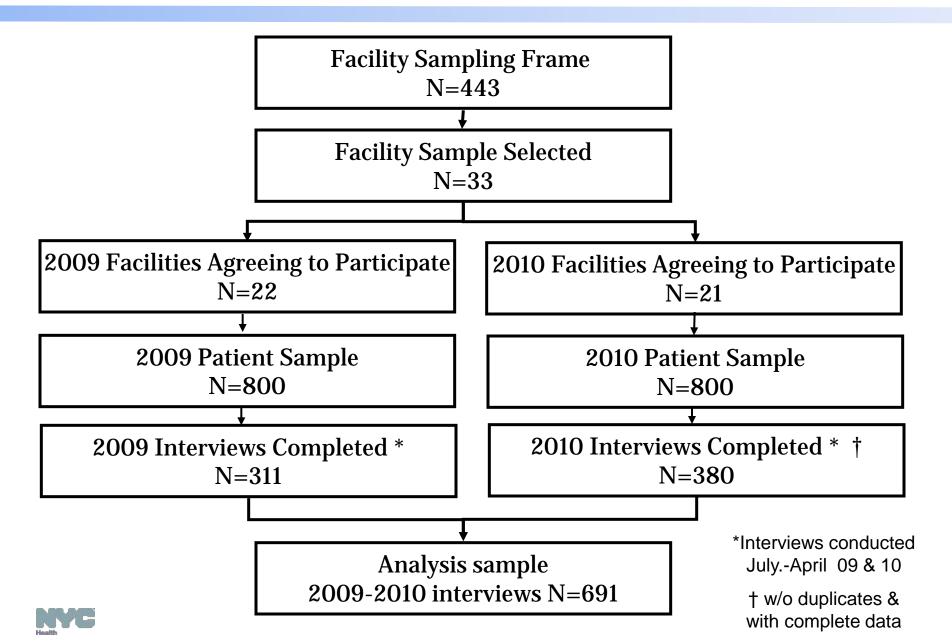


Methods Medical Monitoring Project (MMP)

- Analysis:
 - Frequency and percentage distributions
 - Pearson Chi-Square test
 - Statistical significance for race/ethnic differences is for black, Hispanic, and white



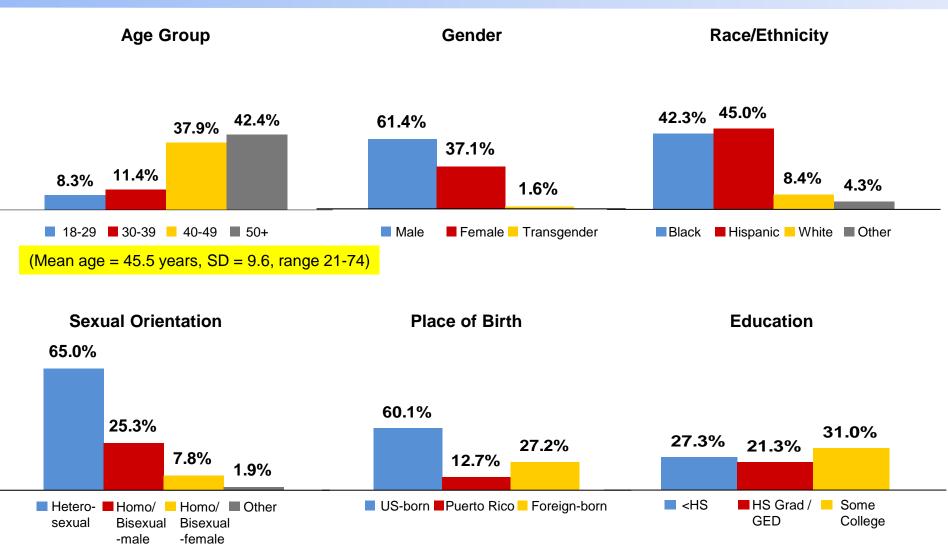
NYC 2009 and 2010 MMP Sample



MMP Participants' Social Demographics



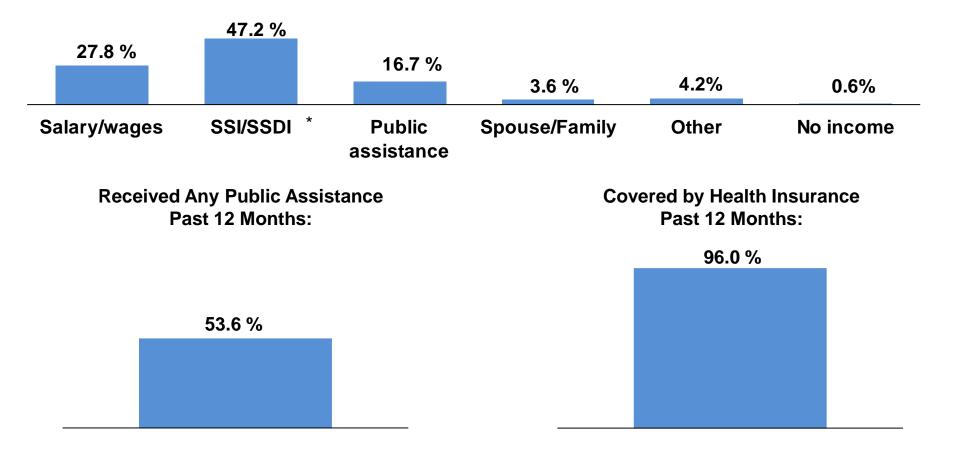
Participants' Social Demographics (N=691)



NYC

Participants' Social Demographics (N=691) MMP, NYC, 2009/2010 (cont'd)

Main Source of Income Past 12 Months:

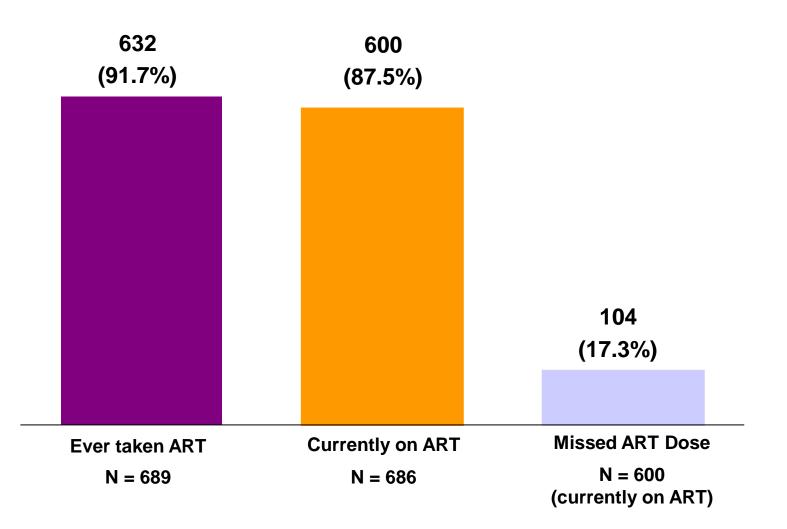




MMP Participants' Clinical Characteristics

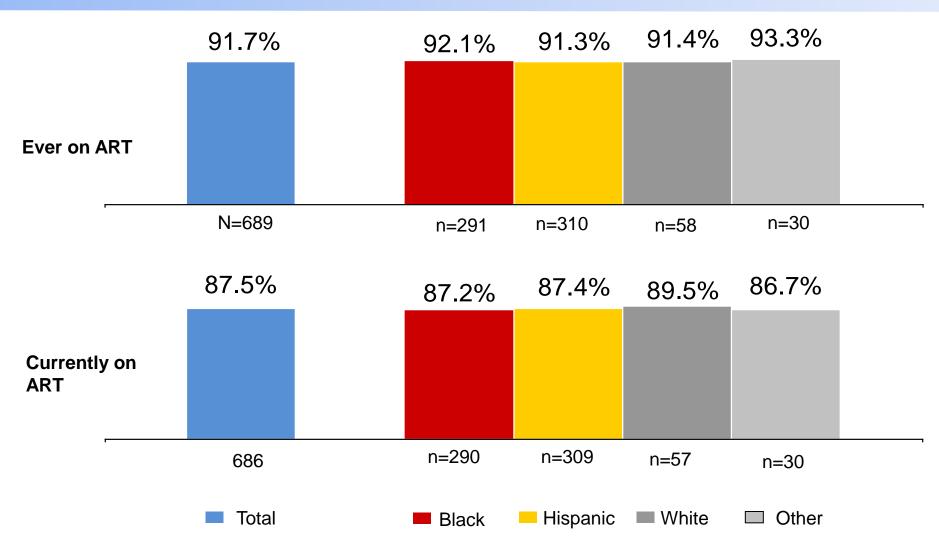


Antiretroviral Treatment and Adherence





HIV Treatment by Race/Ethnicity



Health

N based on non-missing responses

Non-Adherence by Race/Ethnicity Among Those Currently on ART MMP, NYC, 2009/2010

	Dosing * Non-Adherence		Timing ** Non-Adherence		Food *** Non-Adherence	
	NS		P = .009		p = .05	
Race/Ethnicity	N = 691	%	N = 595	%	N = 401	%
Black	292	16.4 %	251	61.8 %	173	60.1 %
Hispanic	311	12.2 %	268	75.0 %	180	72.2 %
White	58	20.7 %	50	74.0 %	29	79.3 %
Other	30	20.0 %	26	73.1 %	19	63.2 %

* Missed any dose in the past three consecutive days; ** Did not adhere to specific medication schedule (timing);

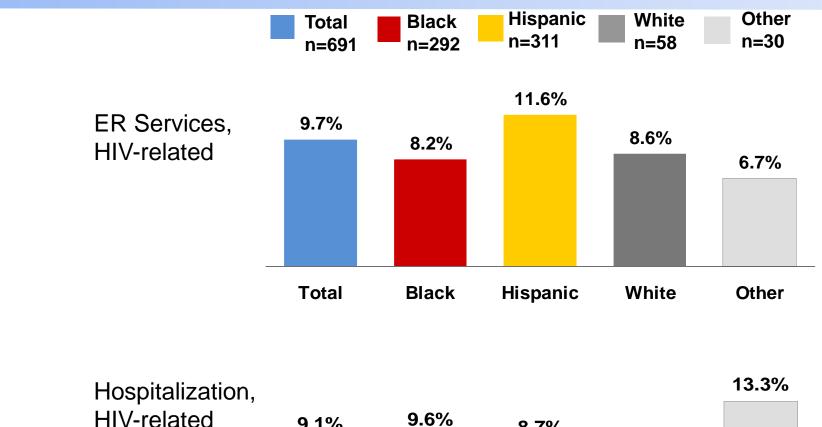
*** Did not adhere to specific food instructions; NS = Not significant

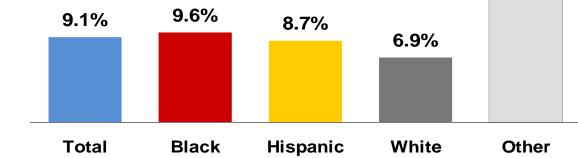


MMP Participants' Service Utilization



Healthcare Service Utilization by Race/Ethnicity in Last 12 Months MMP, NYC, 2009/2010

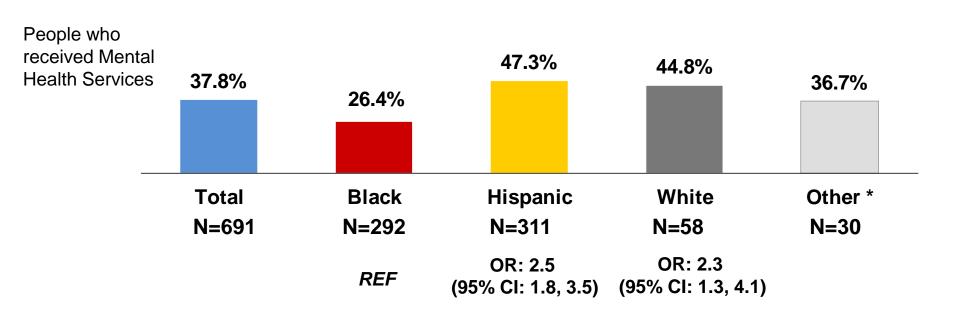






Mental Health Services Provision by Race/Ethnicity

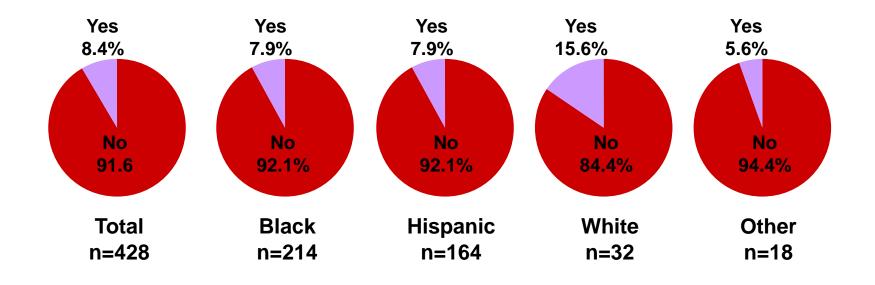
N = 691





Unmet Need for Mental Health Services Among Those Not Receiving the Service by Race/Ethnicity

N = 428

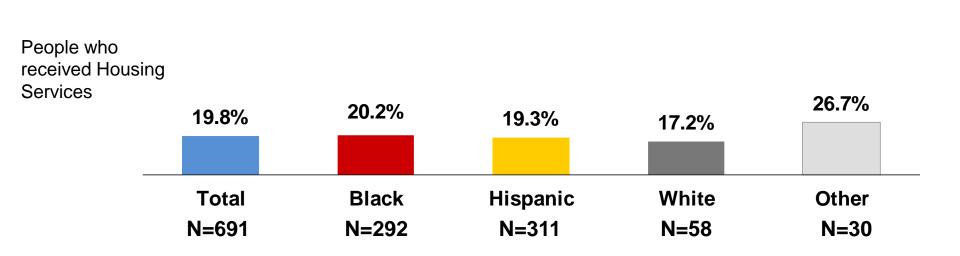


Yes = Unmet Need No = Service Not Needed



Housing Services Provision by Race/Ethnicity

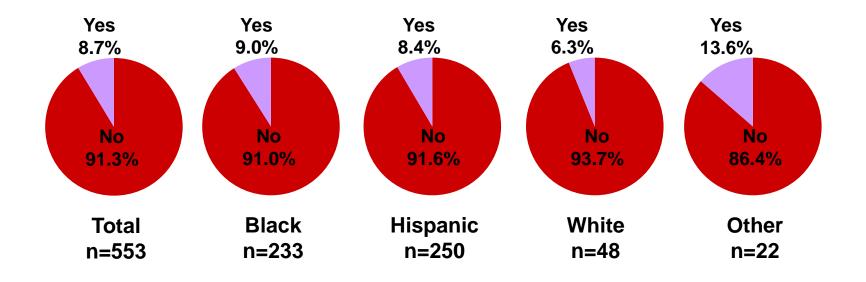
N = 691





Unmet Need for Housing Services Among Those Not Receiving the Service by Race/Ethnicity

N = 553



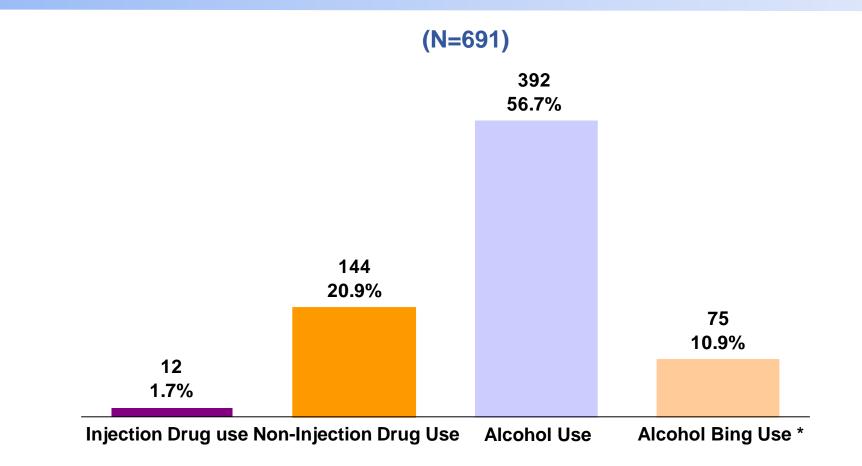
Yes = Unmet Need No = Service Not Needed



MMP Participants' Drug Use Profile



Drug and Alcohol Use MMP, NYC, 2009/2010

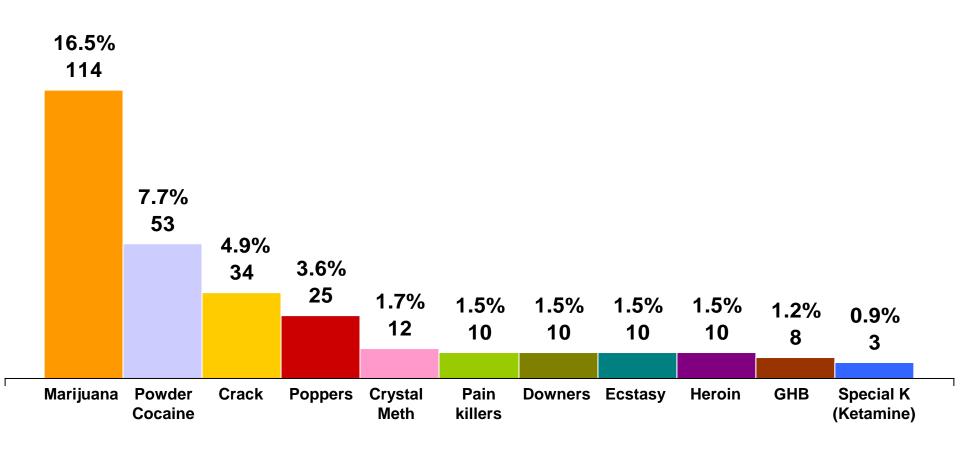




* For men, binge drinking was defined as 5 or more drinks in one sitting in the past 30 days. For women, binge drinking was defined as 4 or more drinks in one sitting in the past 30 days.

Non-Injection Drug Use MMP, NYC, 2009/2010

(N=691)

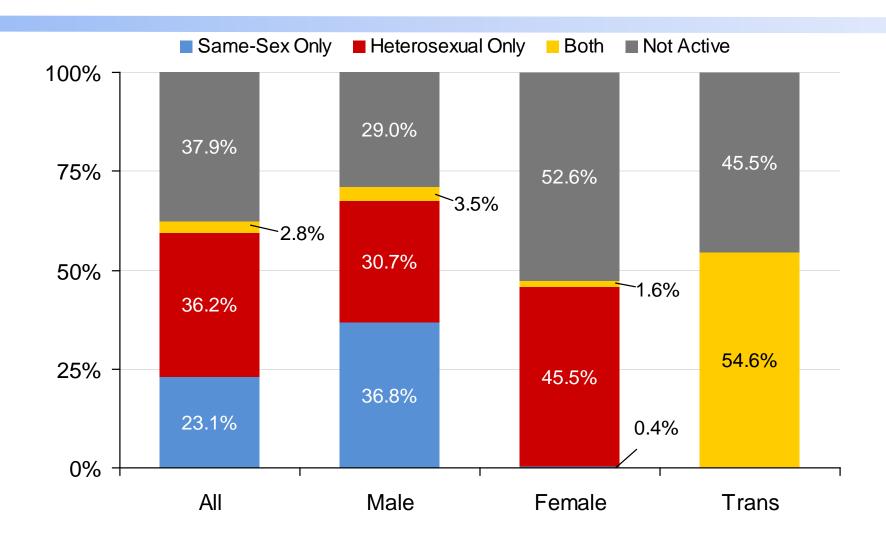




Sexual Activity and Sexual Risk Behaviors



Sexually Activity in Last 12 months by Gender MMP, NYC, 2009/2010





Among the Sexually Active, Number of Sex Partners by Partnership, Past12 months MMP, NYC, 2009/2010

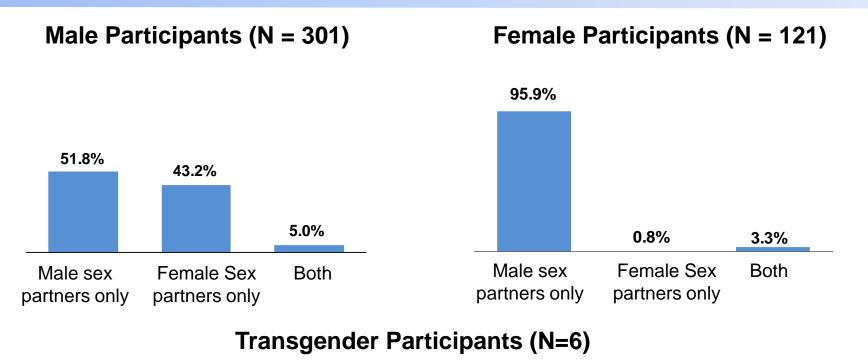
Male w/ Female 145 1 (1, 2) Male w/ Male 170 2 (1, 5)	Partnership Type	Ν	Median	IQR *
Male w/ Male 170 2 (1, 5)	Male w/ Female	145	1	(1, 2)
	Male w/ Male	170	2	(1, 5)
Female w/ Male 120 1 (1, 1)	Female w/ Male	120	1	(1, 1)

* Interquartile Range



Partner Gender Among Participants Reporting Sexual Activity, Past 12 Months

MMP, NYC, 2009/2010



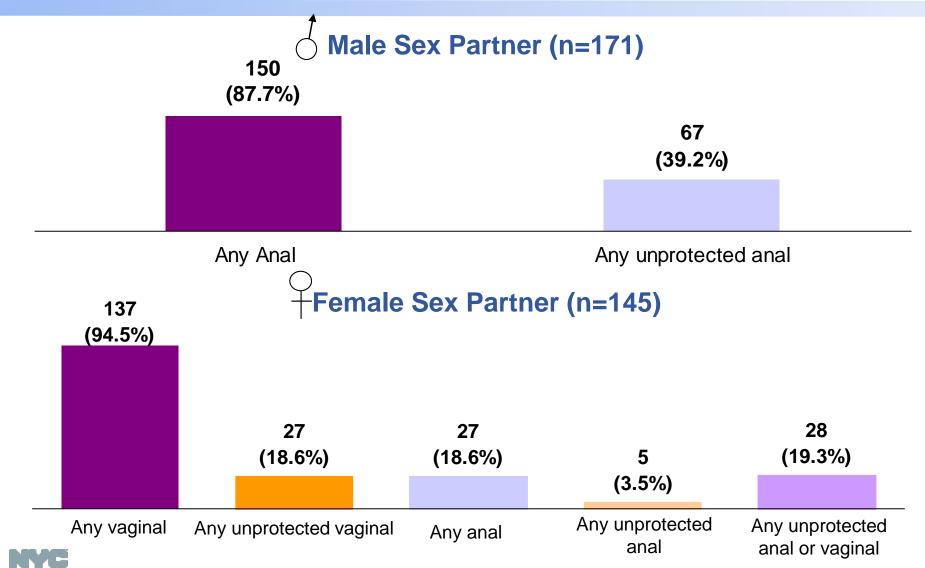
100%



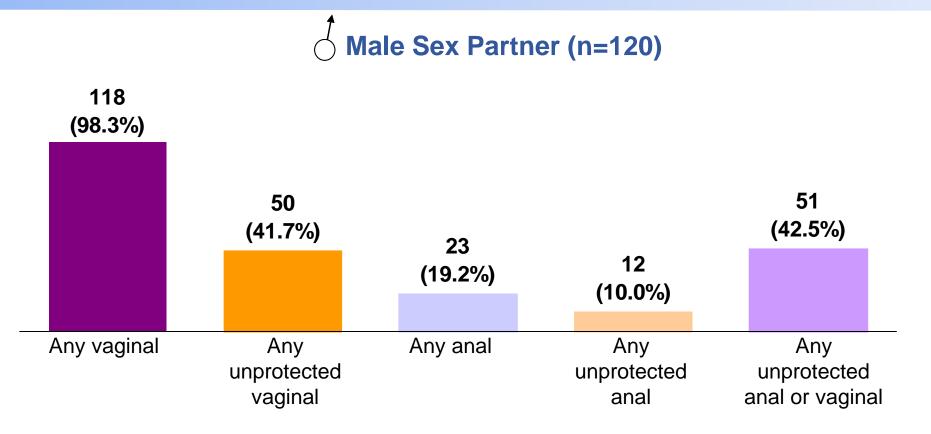


Any gender partner

Sexual Behaviors by Partnership Gender Among Sexually Active Male Participants, Past 12 months MMP, NYC, 2009/2010



Sexual Behaviors by Partnership Gender among Sexually Active Female Participants, Past12 months MMP, NYC, 2009/2010

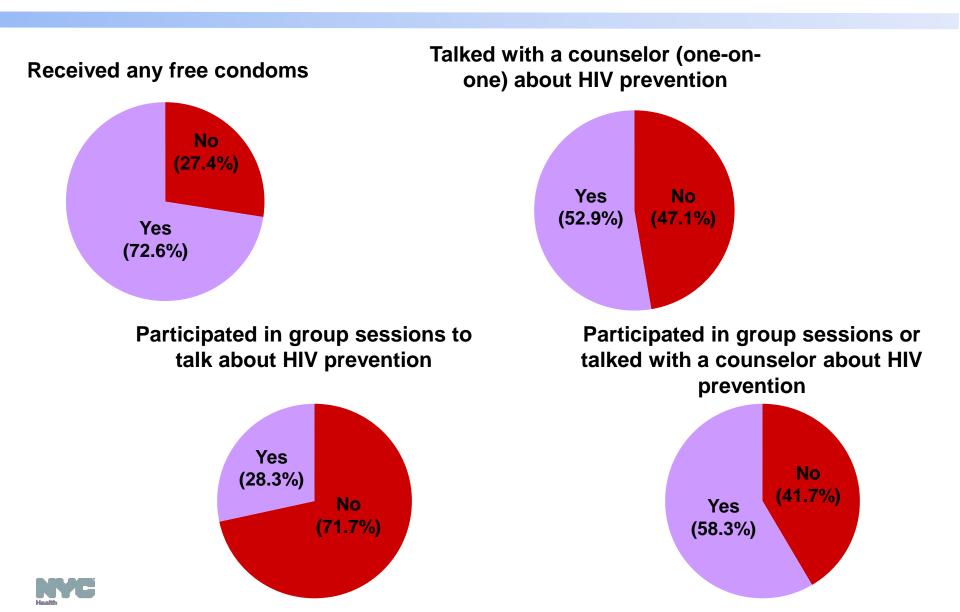


Health

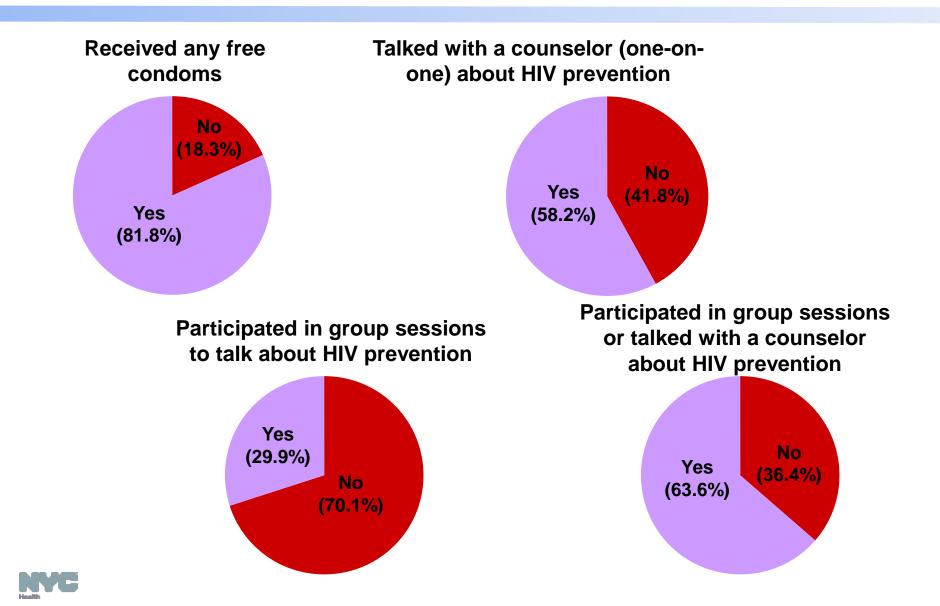
Exposure to Individual Counseling or Group Prevention



Exposure to Prevention in the Past 12 Months (N=691) MMP, NYC, 2009/2010



Exposure to Prevention in the Past 12 Months Among Sexually Active Participants (N=434) MMP, NYC, 2009/2010



Limitations

- Data are based on self-report
- Stigmatized behaviors (e.g., sex and drug risk behaviors) may be underreported
- Cross-sectional design, therefore cannot determine causal relationships
- Caution is required in making generalizations to all NYC HIV-infected patients receiving care for HIV:
 - Some facilities did not participate
 - Low response rate in patient sample
 - Unweighted data are from a complex survey design



CDC. HIV prevalence estimates—United States, 2006. *MMWR*. 2008;57(39):1073-1076.

New York City HIV/AIDS Annual Surveillance Statistics. New York: New York City Department of Health and Mental Hygiene, 2010. Update December 31, 2010. Accessed at http://www.nyc.gov/html/doh/html/ah/hivtables.shtml



The MMP Research Team

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Project Coordinator Julie Lulek, MPH

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