



# Epi Data Tables

New York City Department of Health and Mental

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## Unprotected Anal Intercourse (UAI) among young MSM in New York City

### Data Tables

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### Data Sources

**High Risk Behavioral Surveillance 2009-2011:** The High Risk Behavioral Surveillance (HRBS) project is an anonymous survey conducted among young MSM in NYC. By recruiting respondents from both online and in-person venues, DOHMH intends to minimize any potential sampling bias that may occur by using a singular approach. Respondents must be between 18 and 40 years of age and a resident of NYC. Sexual orientation is not included as an eligibility criterion, although respondents must have engaged in anal sex (insertive, receptive or both) in the six months prior to being surveyed. Additionally, respondents must be born male, although reported gender is not considered an eligibility requirement.

To access the related Epi Data Brief, go to [www.nyc.gov/html/doh/downloads/pdf/epi/datatabrief13.pdf](http://www.nyc.gov/html/doh/downloads/pdf/epi/datatabrief13.pdf)

**Table 1. Sample Characteristic, 2009-2011.**

Source: High Risk Behavioral Surveillance (HRBS) 2009-11.

Characteristic	n	%
<i>Overall</i>	1622	100.0
<i>Age</i>		
18-20	217	13.4
21-30	952	58.7
31-40	453	27.9
<i>Race/ethnicity</i>		
White, non-Hispanic	894	55.1
Black, non-Hispanic	393	24.2
Hispanic	335	20.7
<i>Education</i>		
High school or less	211	13.0
Some college or more	384	23.7
4-Year Degree	668	41.2
Graduate Degree	347	21.4
<i>Country of Birth</i>		
US born	1347	83.1
Foreign born	262	16.2
<i>Borough</i>		
Bronx	143	8.8
Brooklyn	390	24.0
Manhattan	880	54.3
Queens	184	11.3
Staten Island	25	1.5
<i>HIV status</i>		
HIV-negative	1267	78.1
HIV-positive	140	8.6
Unsure/Refusal	41	2.5
Never Tested	162	10.1

For the purposes of reporting, data have been restricted to include white, black and Hispanic respondents.

**Table 2. Unprotected Anal Intercourse (UAI) at last sex by sample characteristics, 2009-2011.**

Source: High Risk Behavioral Surveillance (HRBS) 2009-11.

Characteristic	n	%	p value
<i>Overall</i>	696	42.9	
<i>Age</i>			
18-20	82	37.8	Referent
21-30	401	42.1	0.899
31-40	213	47.0	0.023
<i>Race/ethnicity</i>			
White, non-Hispanic	381	42.6	Referent
Black, non-Hispanic	157	40.0	0.077
Hispanic	158	47.2	0.035
<i>Education</i>			
High school or less	89	42.2	Referent
Some college or more	179	46.6	0.942
4-Year Degree	265	39.7	0.119
Graduate Degree	157	45.2	0.864
<i>Country of Birth</i>			
US born	591	43.8	Referent
Foreign born	99	37.8	0.073
<i>Borough</i>			
Bronx	56	39.2	Referent
Brooklyn	159	40.8	0.717
Manhattan	389	44.2	0.088
Queens	85	46.2	0.070
Staten Island	7	28.0	0.140
<i>HIV status</i>			
HIV-negative	516	40.7	Referent
HIV-positive	91	65.0	<0.001
Unsure/Refusal	19	41.4	0.820
Never tested	65	40.1	

For the purposes of reporting, data have been restricted to include white, black and Hispanic respondents.

**Table 3. Unprotected Anal Intercourse (UAI) at last sex by risk behaviors, 2009-2011.**

Source: High Risk Behavioral Surveillance (HRBS) 2009-11.

Characteristic	n	%	p value
<i>Overall</i>	696	42.9	
<i>Number of sexual partners, six months</i>			
Less than 6	512	42.5	Referent
More than 6	171	44.1	0.461
<i>Partner type at last sexual encounter</i>			
Steady	395	60.3	Referent
Casual	298	31.2	<0.001
<i>Partner type, six months</i>			
Steady only	268	62.5	Referent
Casual only	241	30.6	<0.001
Both	184	46.6	0.917

For the purposes of reporting, data have been restricted to include white, black and Hispanic respondents.

**Table 4. HIV Testing in the past year by sample characteristics and risk behaviors, 2009-2011.**

Source: High Risk Behavioral Surveillance (HRBS) 2009-11.

Characteristic	n	%	p value
<i>Overall</i>	1075	66.3	
<i>Age</i>			
18-20	132	60.8	Referent
21-30	649	68.2	0.170
31-40	294	64.9	0.151
<i>Race/ethnicity</i>			
White, non-Hispanic	586	65.6	Referent
Black, non-Hispanic	272	69.2	0.152
Hispanic	217	64.8	0.372
<i>Education</i>			
High school or less	134	63.5	Referent
Some college or more	245	67.3	0.973
4-Year Degree	458	68.7	0.229
Graduate Degree	230	66.3	0.571
<i>Country of Birth</i>			
US born	901	66.9	Referent
Foreign born	167	63.7	0.324
<i>Borough</i>			
Bronx	102	71.3	Referent
Brooklyn	260	66.7	0.540
Manhattan	590	67.1	0.394
Queens	108	58.7	0.083
Staten Island	15	60.0	0.528
<i>HIV status</i>			
HIV-negative	979	77.3	Referent
HIV-positive	73	52.1	0.006
Unsure/Refusal	15	7.4	0.211
<i>Number of sexual partners, six months</i>			
Less than 6	791	65.6	Referent
More than 6	264	68.0	0.375
<i>Partner type at last sexual encounter</i>			
Steady	438	66.9	Referent
Casual	629	65.8	0.655
<i>Partner type, six months</i>			
Steady only	273	63.6	Referent
Casual only	515	65.4	0.448
Both	279	70.6	0.028
<i>Unprotected Anal Intercourse at last sex</i>			
Reporting UAI	434	62.4	Referent
No UAI	637	70.0	0.001

For the purposes of reporting, data have been restricted to include white, black and Hispanic respondents.

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**Survey Methodology and Protocol**

Men who have sex with men (MSM) account for only a small proportion of New York City's population, yet account for the majority of new HIV infections. Although HIV incidence has leveled off among other high-risk groups in NYC, in recent years new HIV diagnoses have been increasing in young MSM age 13-29, and MSM of color (black and Hispanic MSM). High risk sexual practices – including unprotected anal sex, multiple concurrent partners, and sex under the influence of drugs and/or alcohol – are drivers of HIV transmission in NYC.

In response to this increase in HIV incidence, the Bureau of HIV/AIDS Prevention and Control conducts bi-annual surveys with young men living in NYC who have sex with men. The main objective of the surveillance activity is to evaluate the frequency of high-risk behaviors among MSM while tracking potential behavior changes over time. By recruiting respondents from both online and in-person venues, DOHMH minimizes any potential sampling bias that may occur by using a singular approach. Respondents must be men (who were born male), between 18 and 40 years of age and residents of New York City. Sexual orientation is not included as an eligibility criterion, although to qualify respondents must have engaged in anal sex (insertive, receptive or both) with a man in the six months prior to being surveyed.

**Online Website Selection and Recruitment**

Online surveys are administered by respondent self-selection via click-through banner ads placed on six websites including popular social networking and dating websites with content geared to MSM. Data collection occurs bi-annually in the spring and fall, and the online banner ads are posted for thirty days. Banner ads are geocoded to appear only for New York City-based users, and potential respondents who 'click through' the ads are directed to the survey and screened for eligibility. All ineligible respondents are directed to a DOHMH landing page with HIV/AIDS information. Eligible respondents are directed to an informed consent form. Respondents who consent proceed to the survey and those that do not consent are similarly directed to a landing page. Data collected from incomplete surveys are not analyzed, and respondents reporting a zip code or neighborhood outside of New York City as their place of residence are excluded from data analysis.