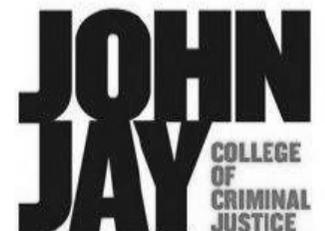


HIV Risk and Prevalence among NYC Men who Have Sex with Men

Results from the
2011 National HIV Behavioral Surveillance Study



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Background

- NYC has the largest population of men who have sex with men (MSM) of any U.S. city
- MSM are the largest risk group of people living with HIV/AIDS and new infections
- Nationally, HIV incidence has increased among young, black MSM (Prejean, 2011)
- HIV risk factors vary in different MSM communities

National HIV Behavioral Surveillance (NHBS)

- 20 metropolitan statistical areas throughout the United States
- Funded by CDC, designed collaboratively
- Ongoing, cyclical study of three risk groups: *MSM*, *IDU*, and *high-risk heterosexuals*
- Third cycle of NHBS-MSM data collection in 2011
- Cross-sectional study design

NHBS Objectives

- Determine frequency and correlates of HIV risk behaviors
- Assess HIV testing history and patterns
- Assess exposure to and use of HIV prevention services
- Estimate the prevalence of HIV infection
- Understand trends in risk and prevalence

Eligibility Criteria

NYC NHBS-MSM, 2011

- Born male, currently identifies as male
- At least 18 years old
- NYC Resident
- Ever had oral or anal sex with another man
- Speaks English or Spanish

Venue-Based Sampling

NYC NHBS-MSM, 2011

- Universe of MSM-oriented venues constructed
 - *Bars, clubs, parks restaurants, gyms, cruising areas*
- Venues randomly selected, placed on monthly calendar
 - *Special events or venues also added non-randomly*
- Field team sequentially samples men at venue
 - *Men must cross an imaginary line; venue volume measured*
- Approached men are screened, provide informed consent, interviewed, and HIV tested

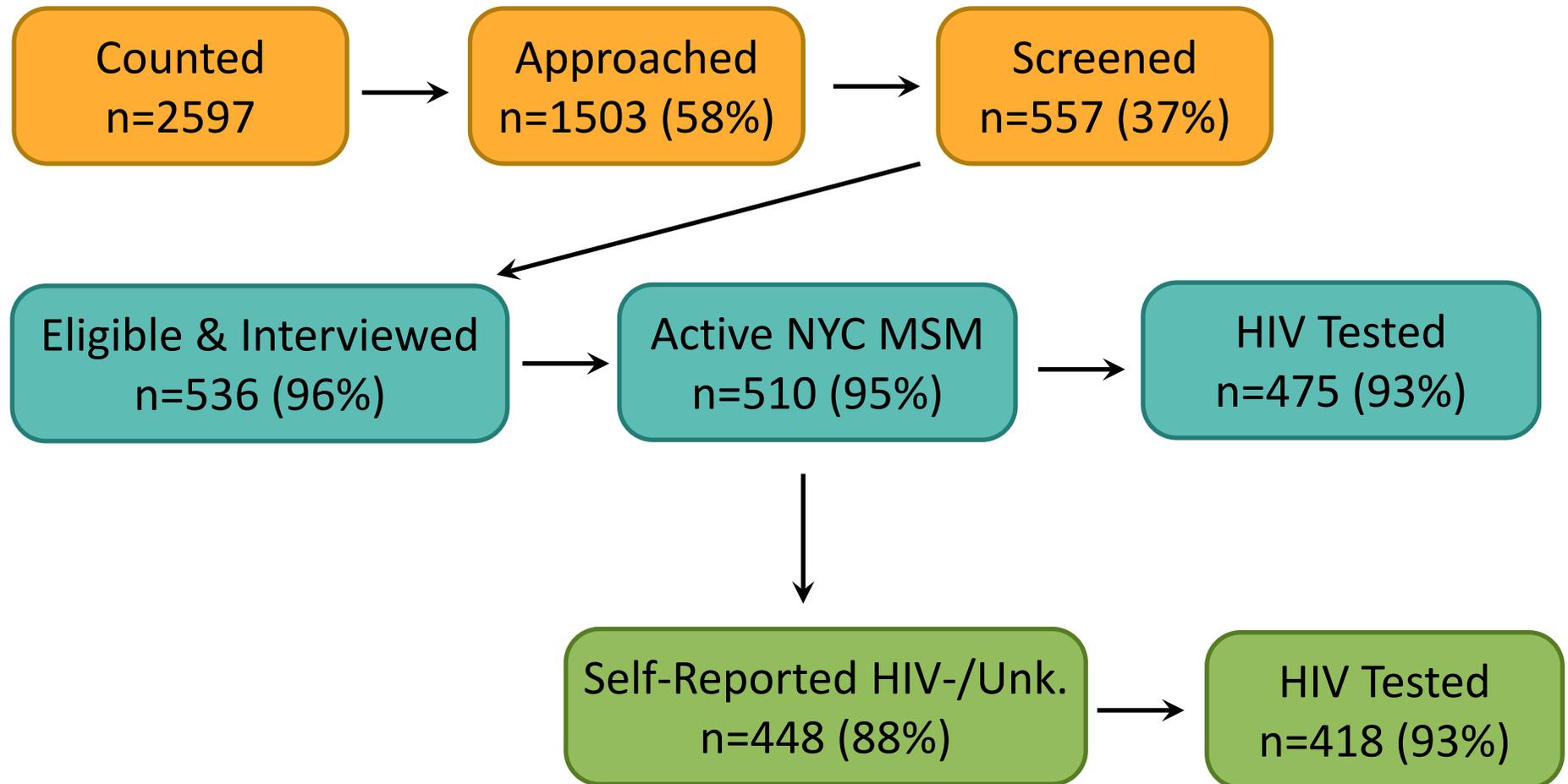
Statistical Analysis

NYC NHBS-MSM, 2011

- Analyses restricted to those who reported oral or anal sex with another man in the past 12 months (n=510)
- Basic descriptive frequencies of demographics, risks, and use of HIV testing and prevention services
- Chi-square tests to compare differences in HIV risks and use of HIV testing and prevention services
 - Most slides focus only on MSM who did not self-report as HIV+ (n=448), since awareness of HIV infection influences risk
- Overall prevalence of HIV infection determined by confirmed Western blot test among those who tested (n=475)
 - Awareness of HIV status, among those who tested HIV+ (n=91)

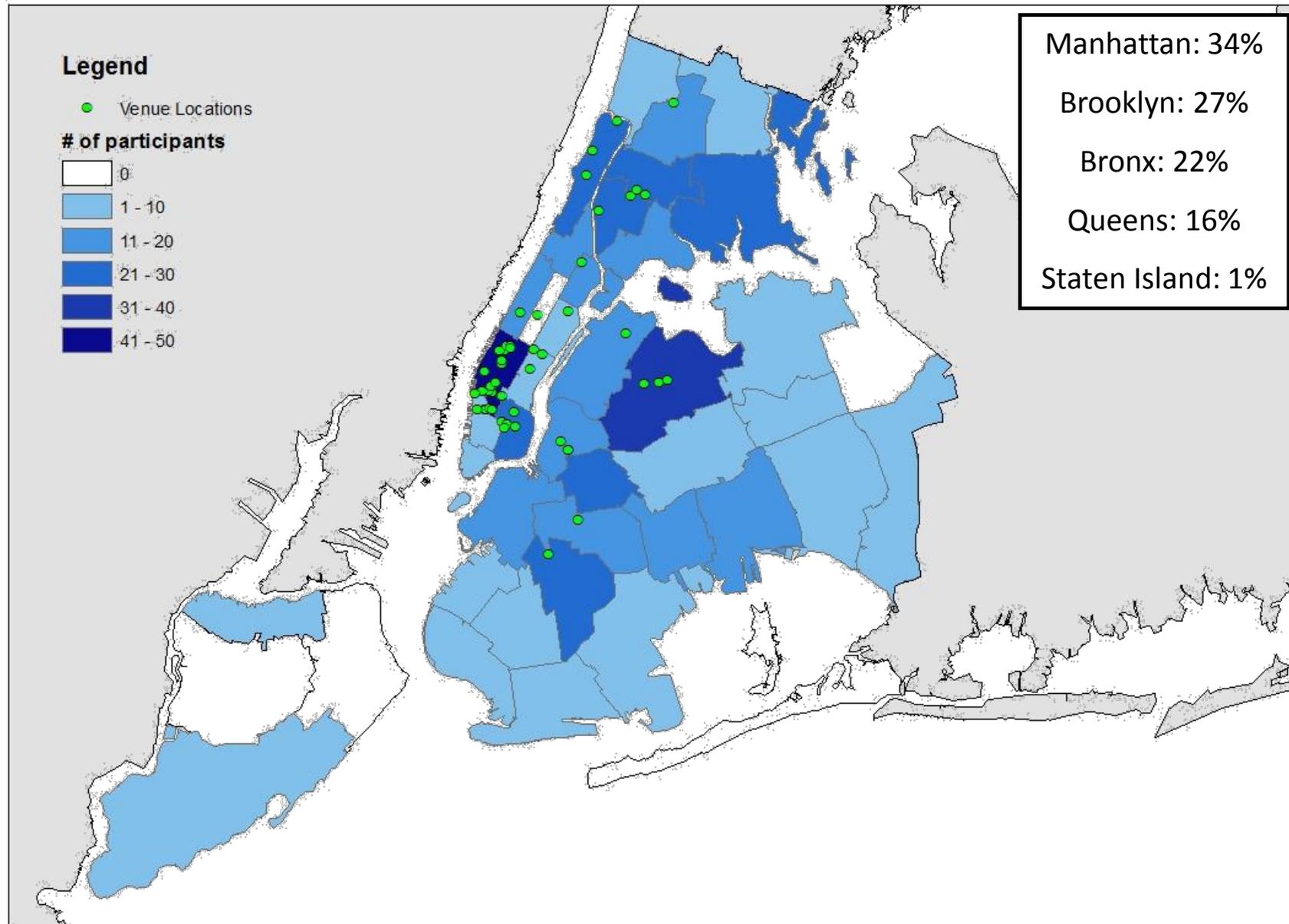
Study Sample

NYC NHBS-MSM, 2011



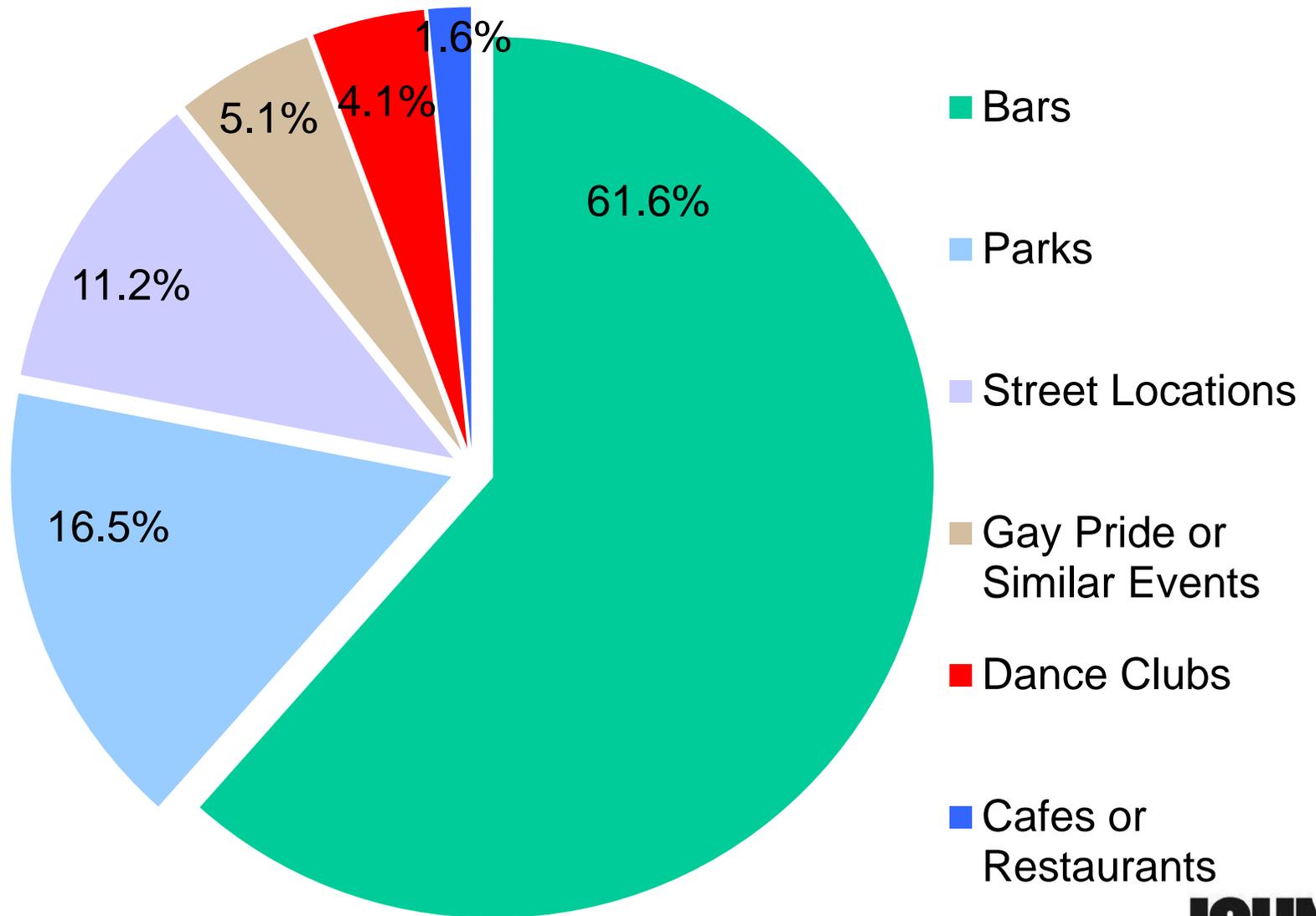
Participant United Hospital Fund (UHF) Neighborhood of Residence and Recruitment Venues

NYC NHBS-MSM, 2011, n=491 with valid zip codes



Recruitment Venues

NYC NHBS-MSM, 2011, n=510



Demographics

NYC NHBS-MSM, 2011, n=510

Race/Ethnicity

Black	23%
Hispanic	39%
White	29%
Other	9%

Age

18-29	52%
30-39	22%
40-49	17%
50+	8%

Sexual orientation

Gay	78%
Bisexual	19%
Heterosexual	2%
Unknown	<1%

Birthplace

United States	78%
Puerto Rico	3%
Foreign	19%

Demographics

NYC NHBS-MSM, 2011, n=510

Income

<10k	19%
10k-30k	33%
30k-50k	20%
>50k	27%

Jailed >24 hours

Past 12 Months	9%
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Education

<High School	9%
H.S. - Some College	65%
≥College Grad	26%

Homeless

Past 12 Months	14%
Currently	7%

Average Number of Male Sex* Partners in Past 12 Months

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)

	Median	Mean
Main	1	1.0
Casual	3	9.4
All Types	4	10.4

* Oral or anal sex

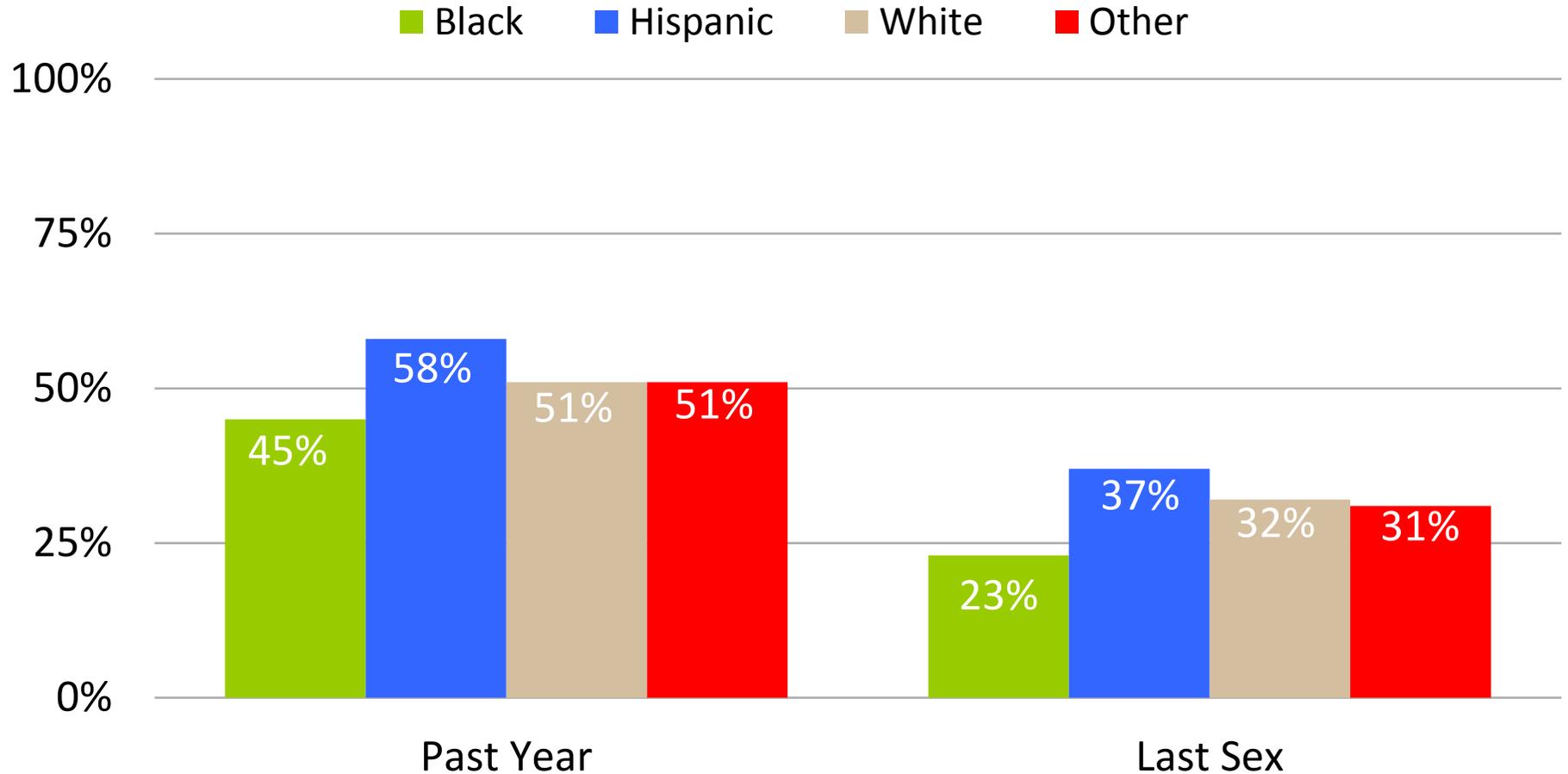
Median Male Sex* Partners in Past 12 Months by Race/Ethnicity
 NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)

	Black	Hispanic	White	Other
Main	1	1	1	1
Casual	3	3	3.5	2
All Types**	4	3	5	3

* Oral or anal sex
 ** p=0.06 Kruskal-Wallis test

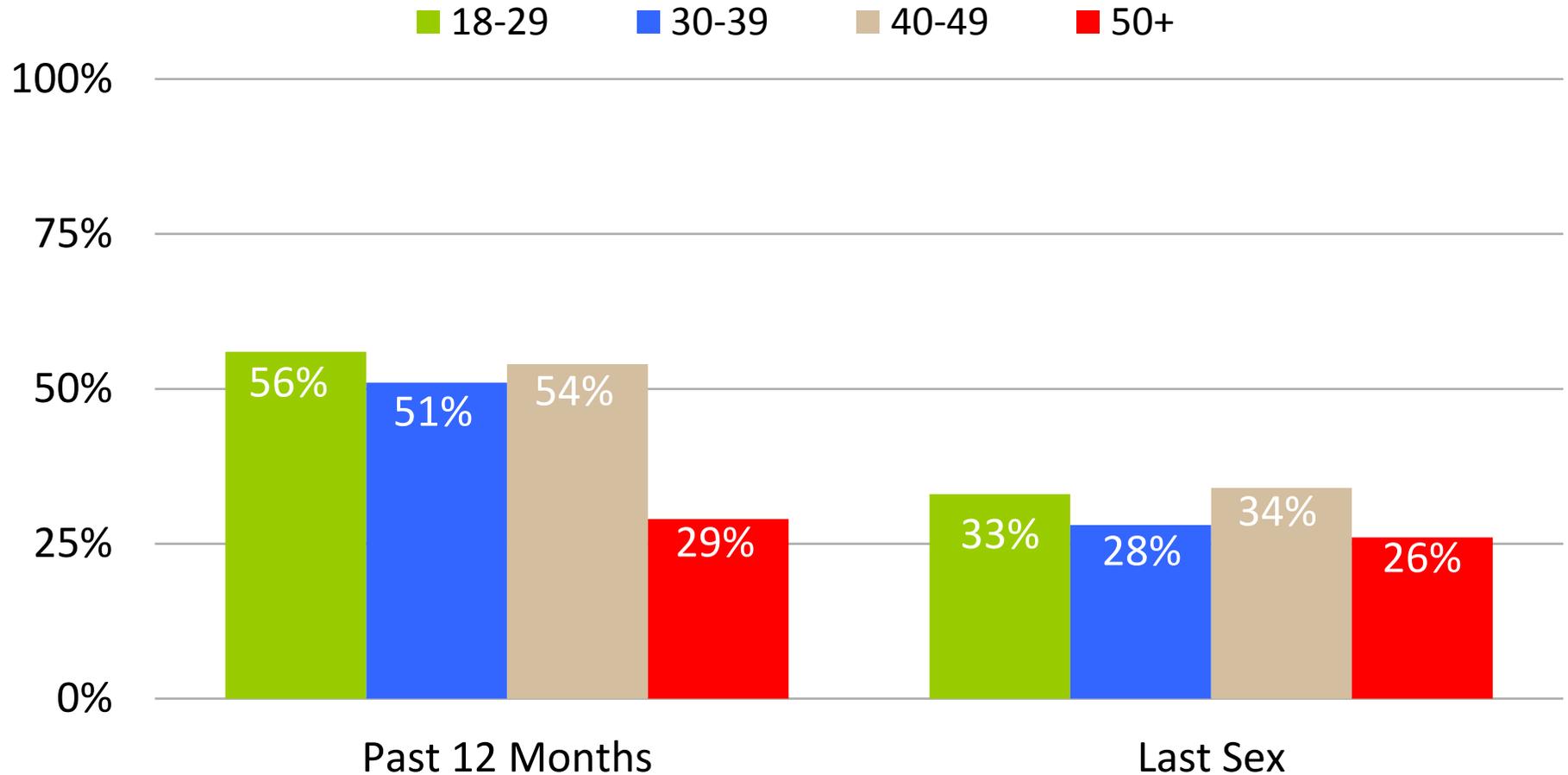
Unprotected Anal Intercourse (UAI) in Past 12 Months and Last Sex by Race/Ethnicity

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



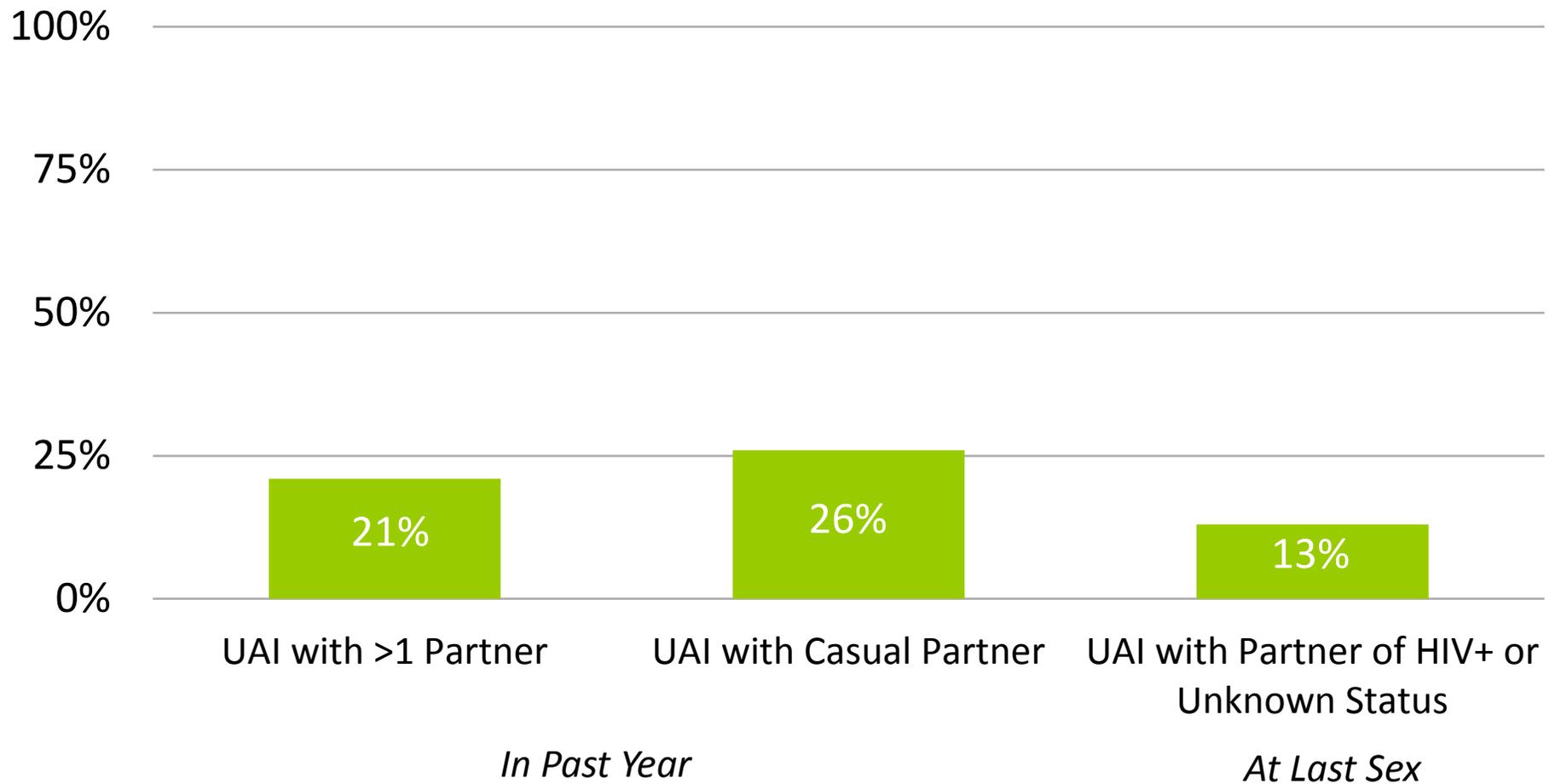
Unprotected Anal Intercourse (UAI) in Past 12 Months and Last Sex by Age

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



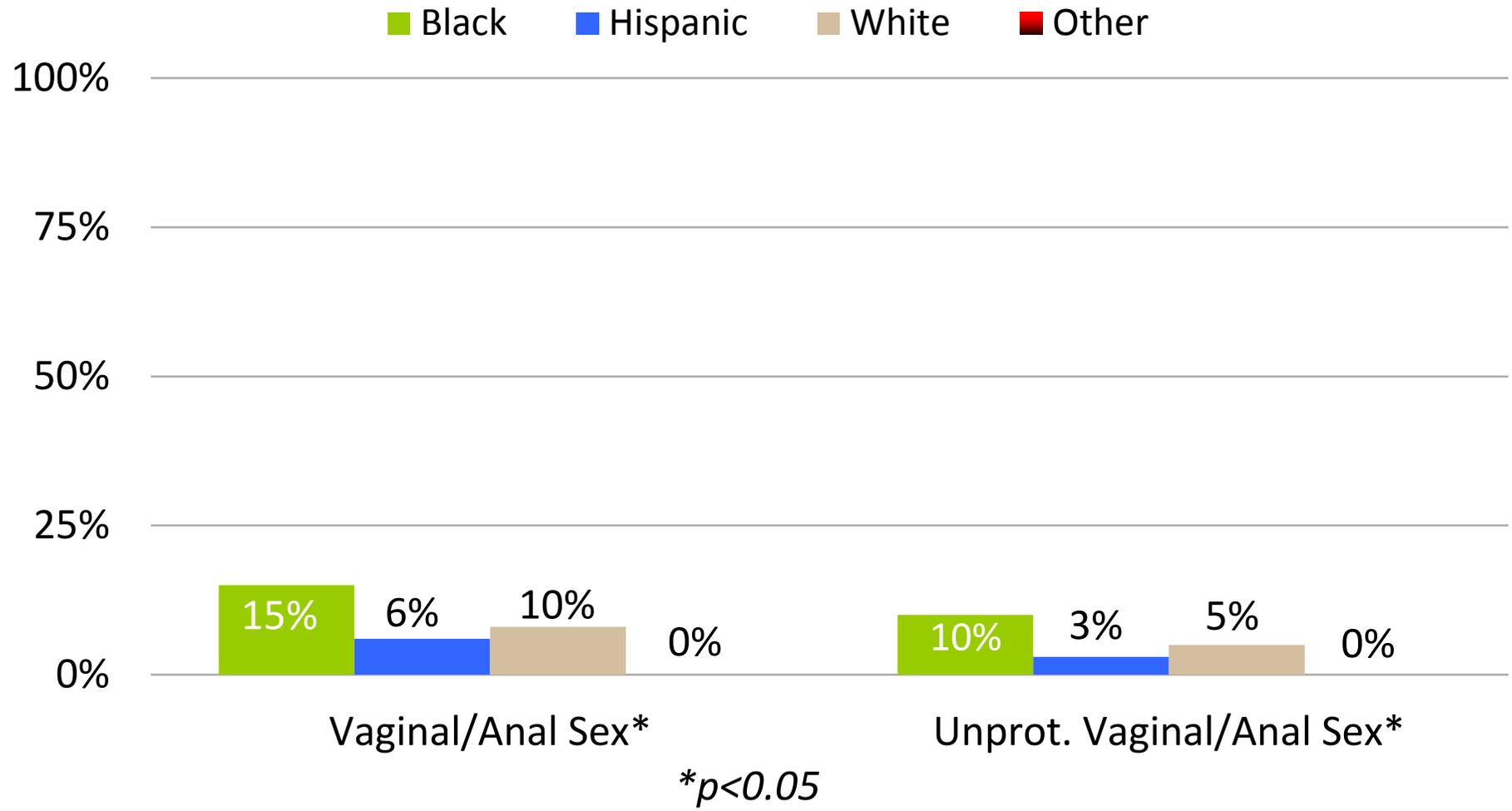
High Risk Unprotected Anal Intercourse (UAI)

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



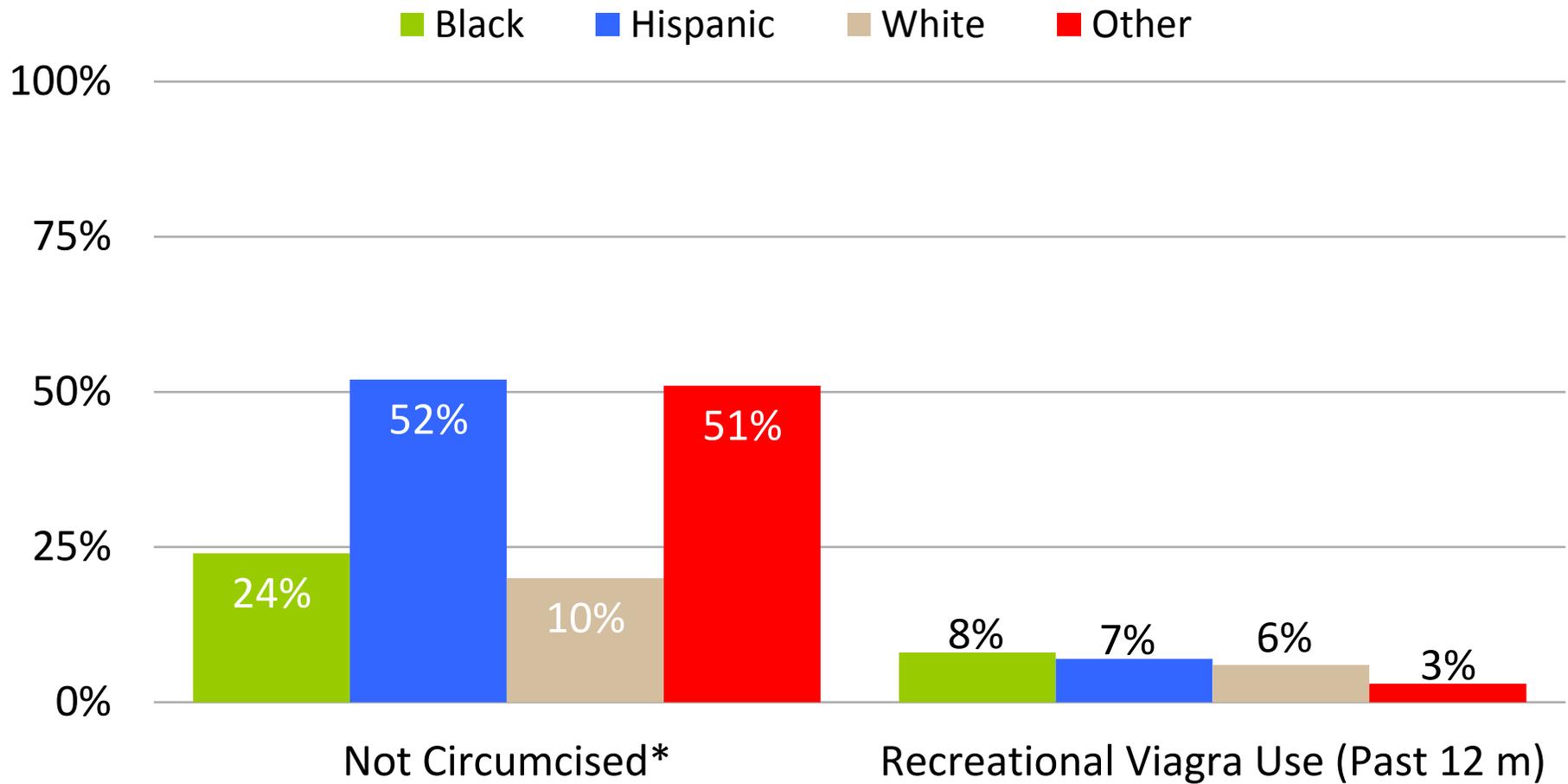
Sex with Women in Past 12 Months

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



Other HIV Risk Factors

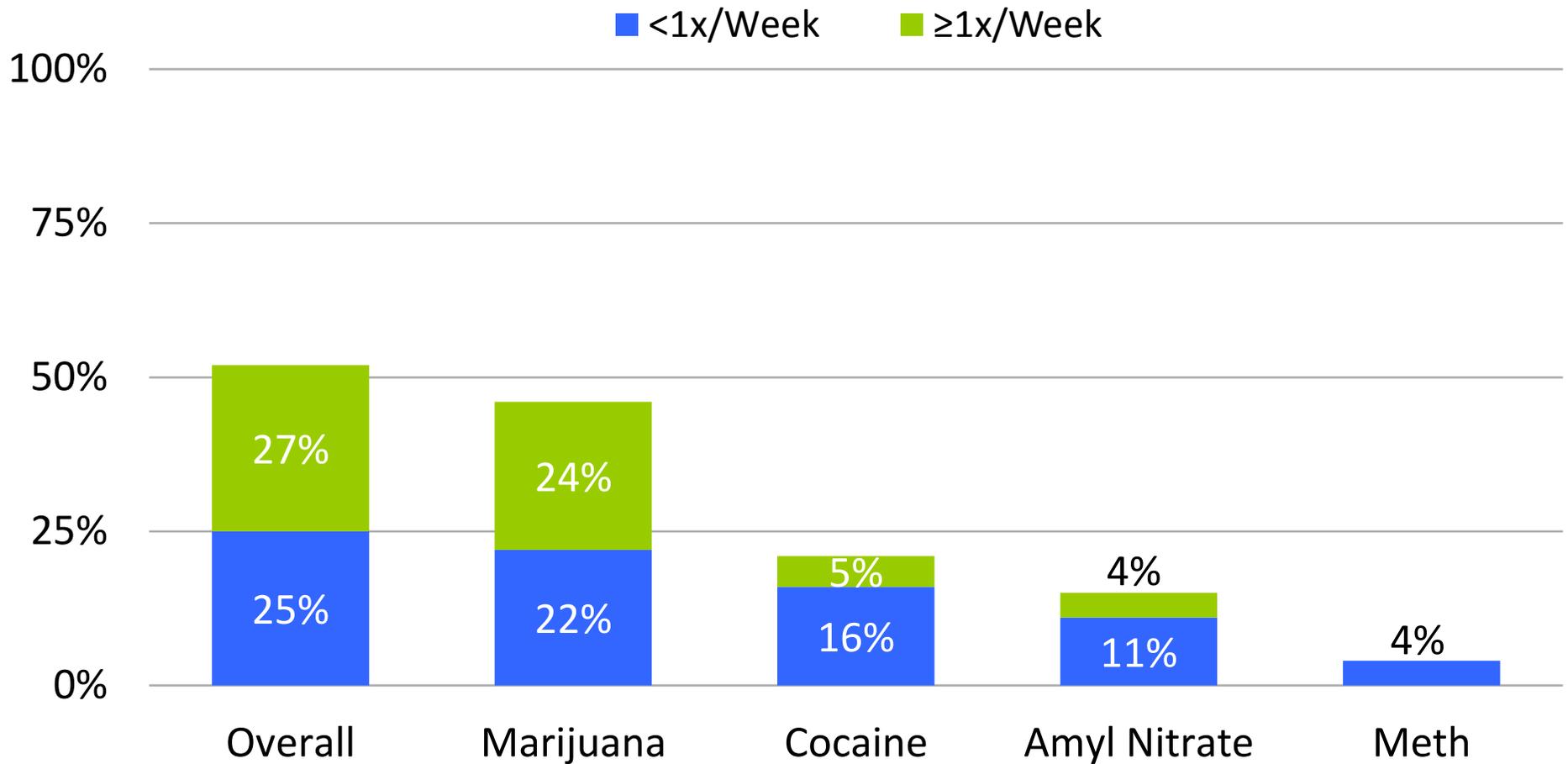
NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



* $p < 0.0001$

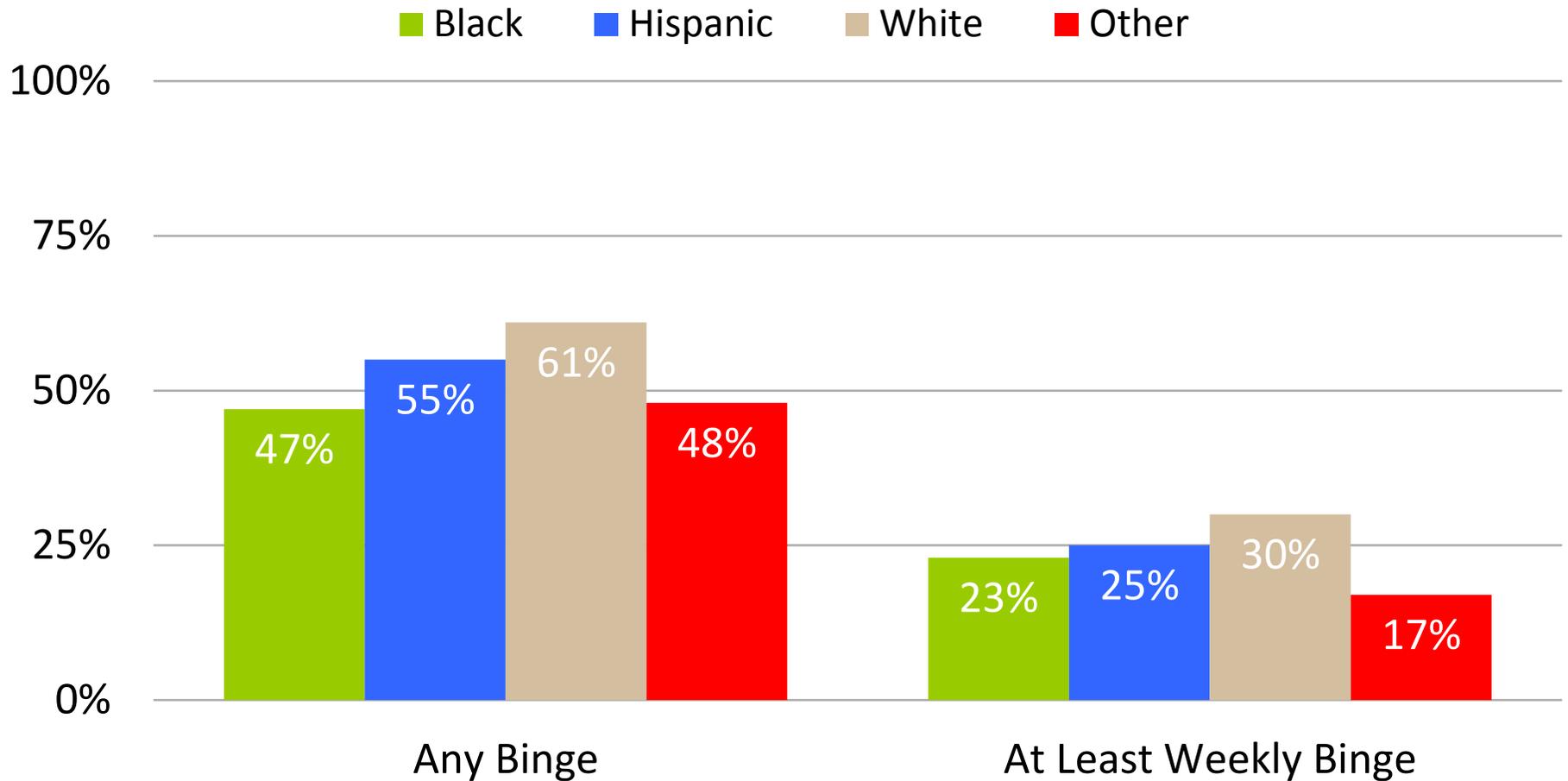
Non-Injection Drug Use in Past 12 Months

NYC NHBS-MSM, 2011, n=510



Binge Alcohol Use in Past 12 Months by Race/Ethnicity

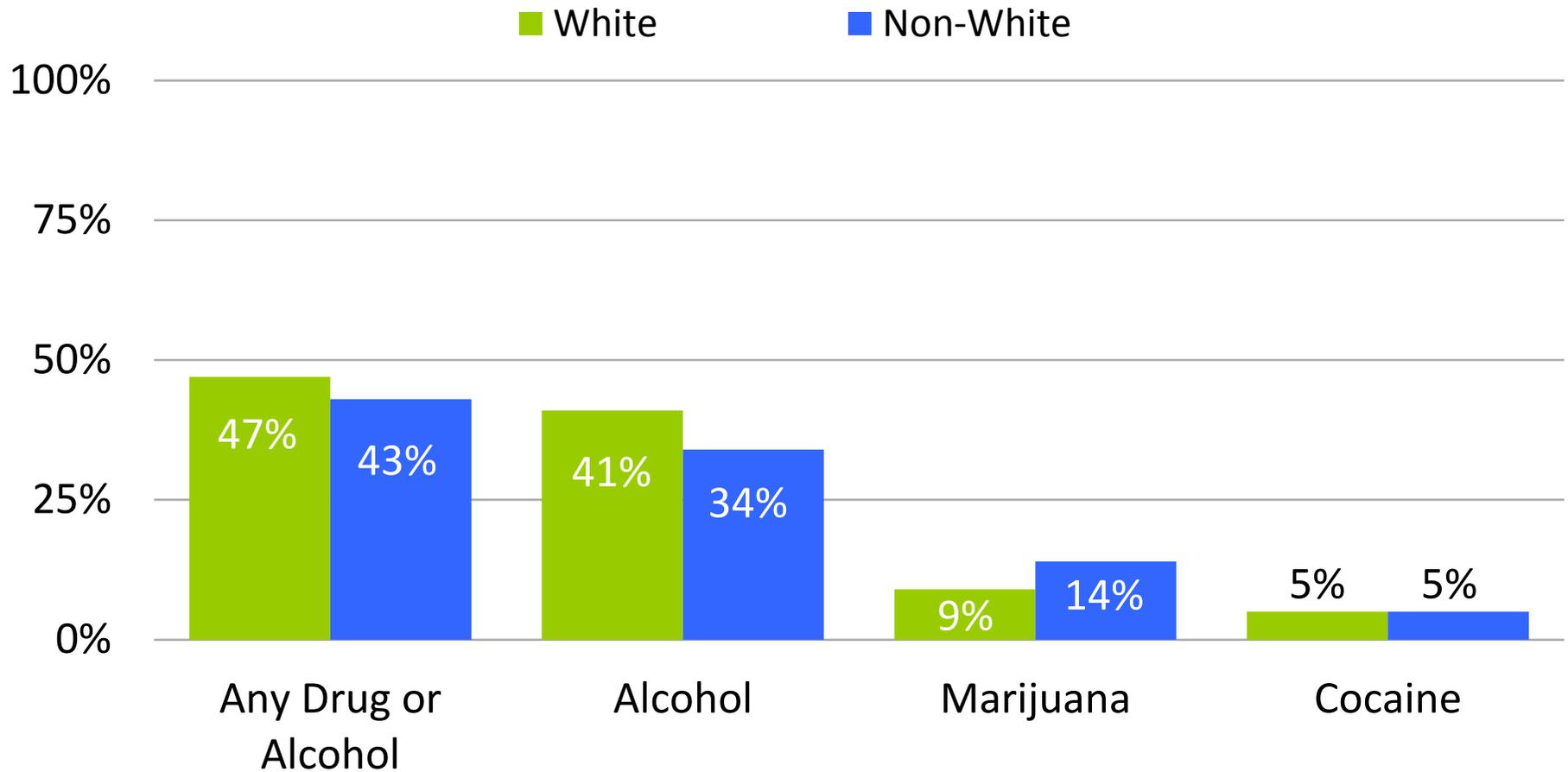
NYC NHBS-MSM, 2011, n=510



Binge: 5 or more drinks in "one sitting"

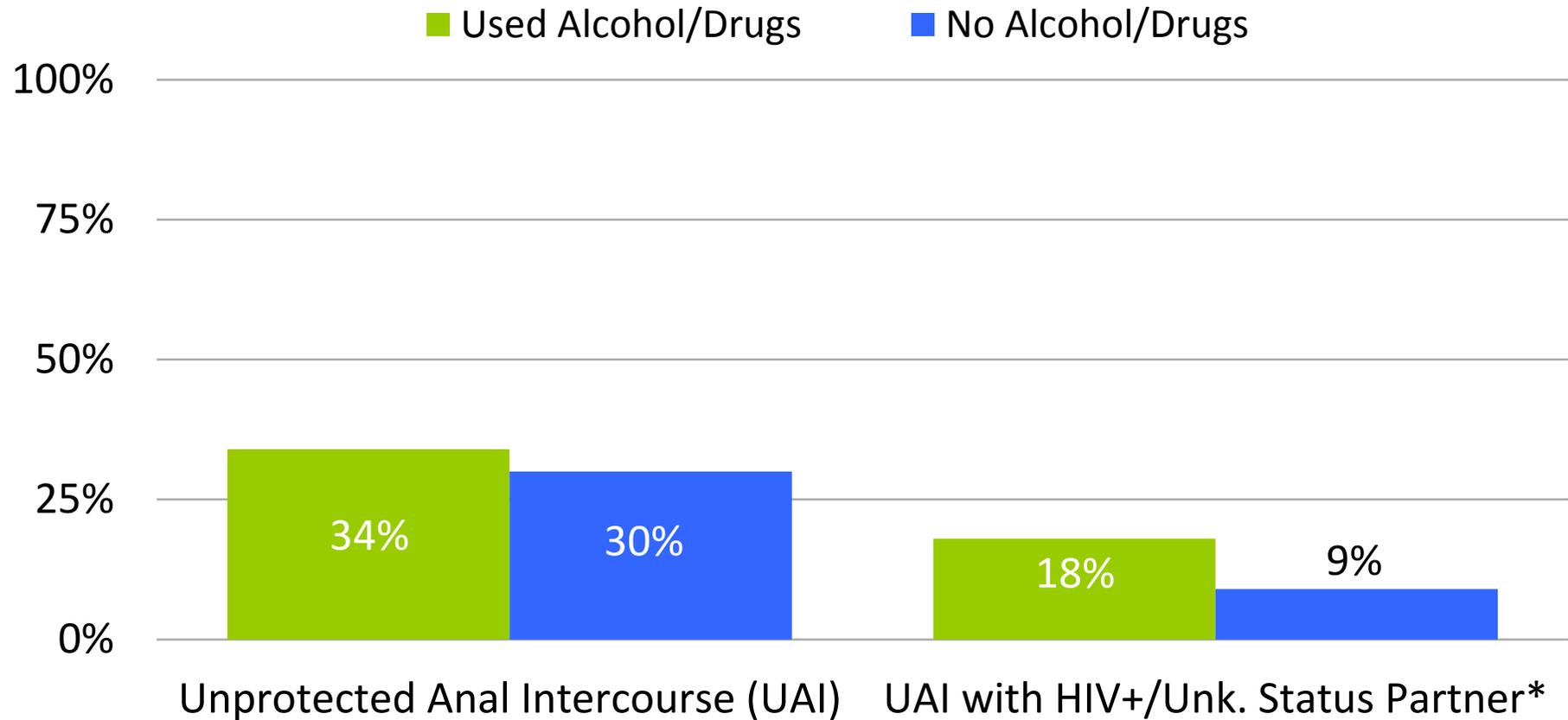
Drug & Alcohol Use at Last Sex

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



Alcohol/Drug Use and Sexual Risk at Last Sex

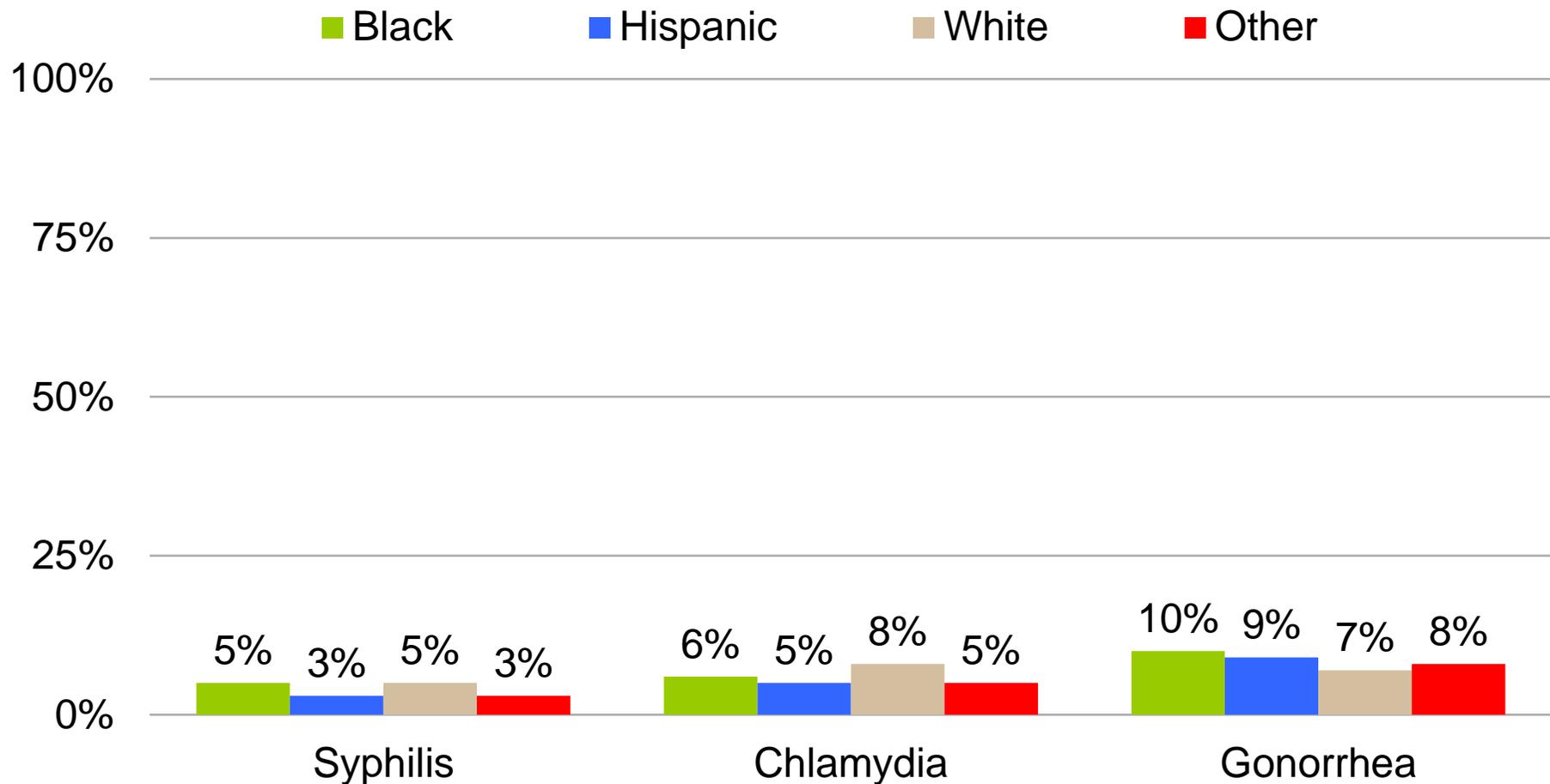
NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



* $p < 0.01$

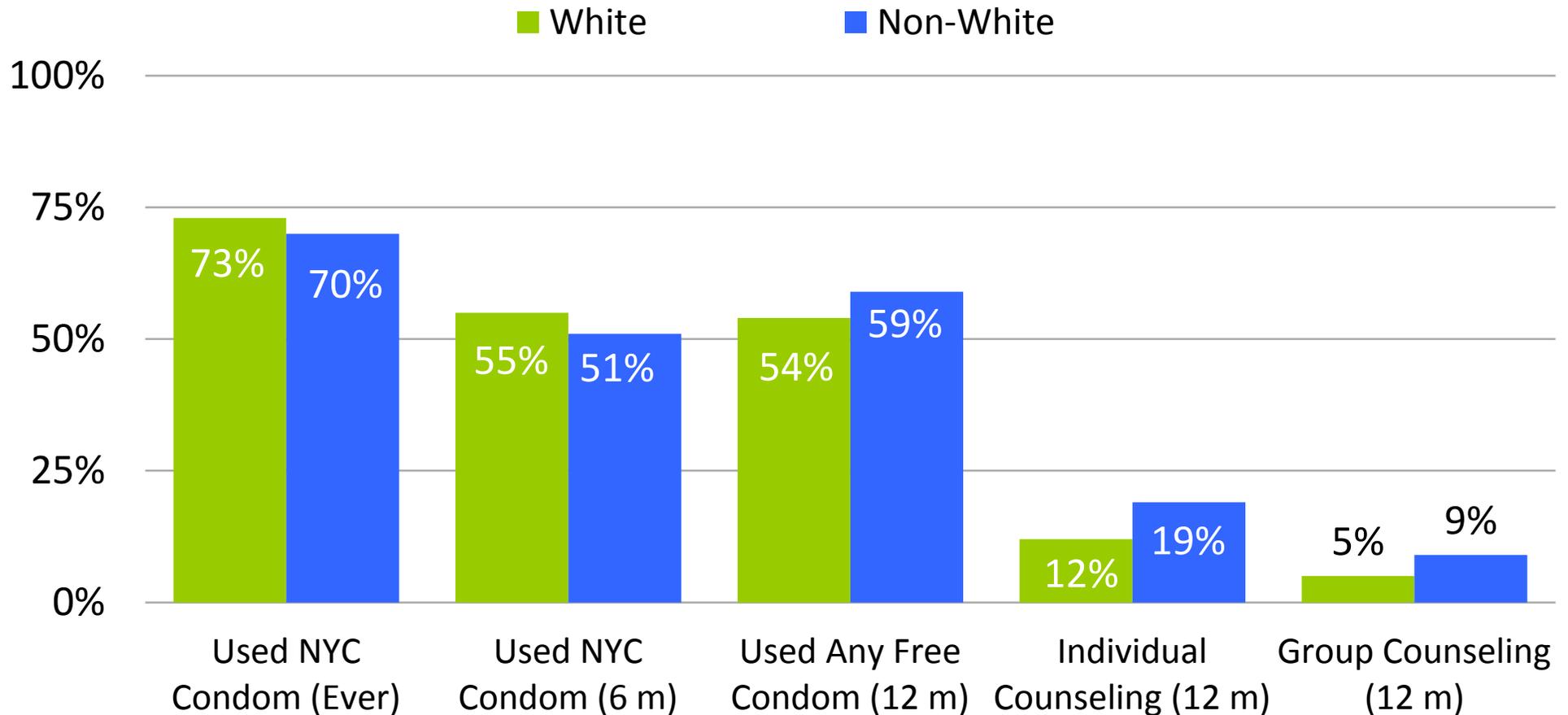
Sexually Transmitted Disease (STD) Diagnosis in Past 12 Months

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



HIV Prevention Services

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



HIV Prevalence & Awareness by Race/Ethnicity

NYC NHBS-MSM, 2011, n=475 (Tested in Study)

	HIV-Positive*	95% CI	% Unaware†
Overall	19.2%	15.6 – 22.7%	40%
By Race/Ethnicity			
Black	41.9%	32.5% – 51.3%	45%
Hispanic	15.0%	9.9% – 20.1%	46%
White	10.6%	5.6% – 15.7%	7%
Other	10.0%	0.7% – 19.3%	50%

*p<0.0001

† Among MSM who tested HIV positive (n=91)

HIV Prevalence & Awareness by Age

NYC NHBS-MSM, 2011, n=475 (Tested in Study)

	HIV-Positive*	95% CI	% Unaware†
By Age			
18-29	13.8%	9.6-18.1%	34%
30-39	20.0%	12.1-27.8%	50%
40-49	25.6%	16.2-35.1%	48%
≥50	37.5%	22.5-52.5%	27%

*p=0.001

†Among MSM who tested HIV positive (n=91)

HIV Prevalence (95% CI) by Age and Race

NYC NHBS-MSM, 2011, n=475 (Tested in Study)

	Black*	Hispanic†	White	Other
Age				
18-29‡	32% (20%-46%)	9% (4%-16%)	10% (4%-21%)	7% (1%-24%)
≥30§	48% (34%-62%)	24% (15%-35%)	11% (5%-20%)	17% (2%-48%)

*p=0.04

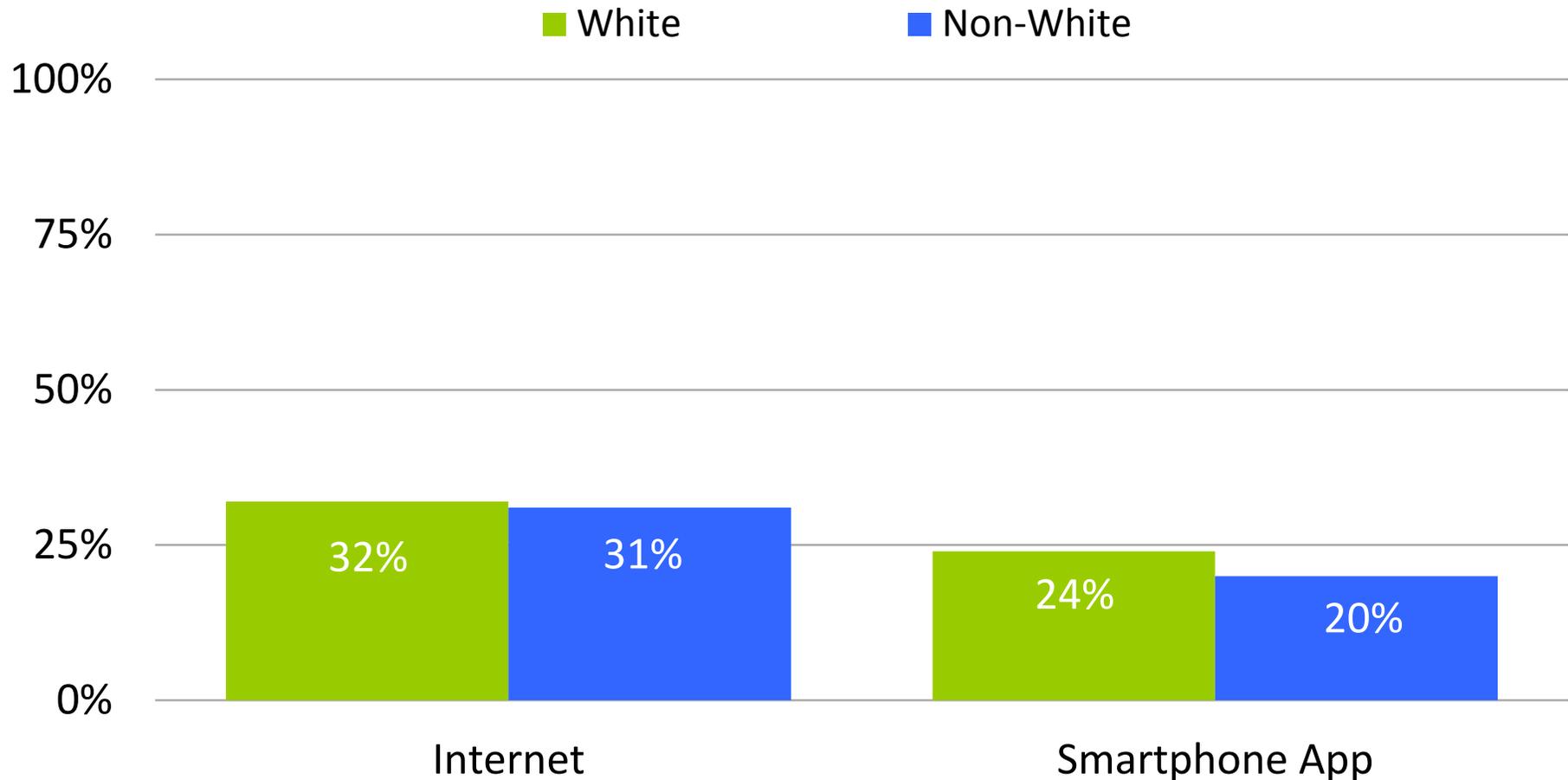
†p=0.006

‡p=0.0003

§p<0.0001

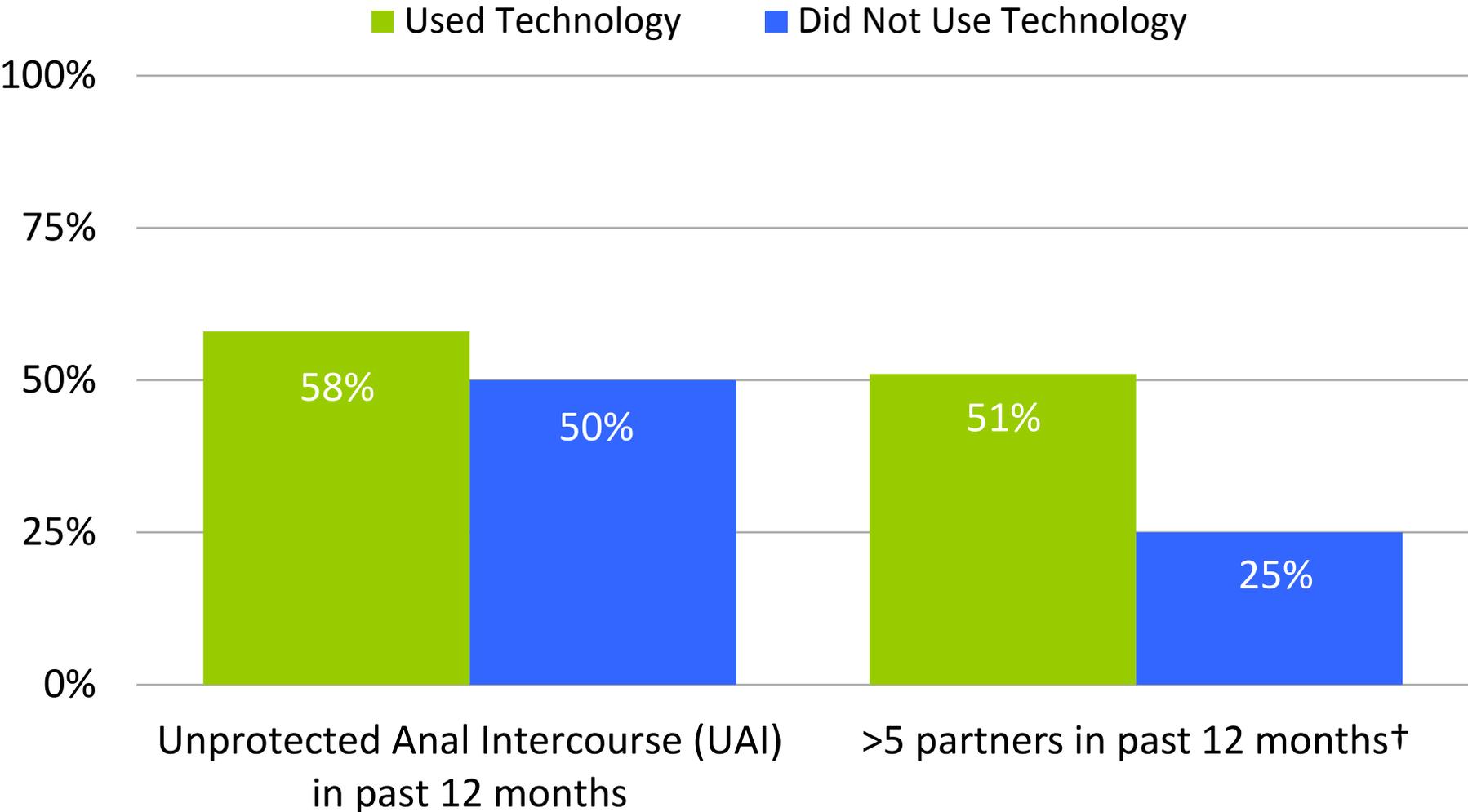
Met Partners Using Communication Technology* in Past 12 Months

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



Risk Behavior and Use of Communication Technology* to Meet Partners in Past 12 Months

NYC NHBS-MSM, 2011, n=448 (HIV-/Unk.)



†p<0.0001

*Internet or mobile phone apps

Contact

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