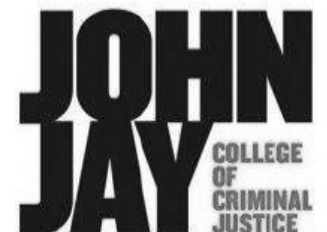


# HIV Risk and Prevalence among NYC Men who Have Sex with Men

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Results from the  
2011 National HIV Behavioral Surveillance Study



# Background

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- 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)
- The risk factors for this disparity are not well understood
  - Factors such as unprotected sex, drug use, STDs, risk networks, testing behaviors may drive HIV among black MSM

# National HIV Behavioral Surveillance (NHBS)

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- 20 metropolitan statistical areas throughout the United States and Puerto Rico
- 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

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- 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

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- 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

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- Universe of MSM-oriented venues constructed
  - *Bars, clubs, parks restaurants, gyms, public strolls*
- 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*
    - *2597 counted*
    - *1503 (58%) approached*
    - *557 (37%) screened*
    - *536 (96%) eligible and interviewed*
    - *510 (95%) active NYC MSM*
    - *448 (88%) self-reported HIV-/Unknown*
    - *418 (93%) HIV tested*

# Statistical Analysis

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- Basic descriptive frequencies of demographics, risks, and use of HIV testing and prevention services among NYC MSM active in past 12 months (n=510)
- 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)

# Demographics

NYC NHBS-MSM, 2011, n=510

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## 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*

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## Income

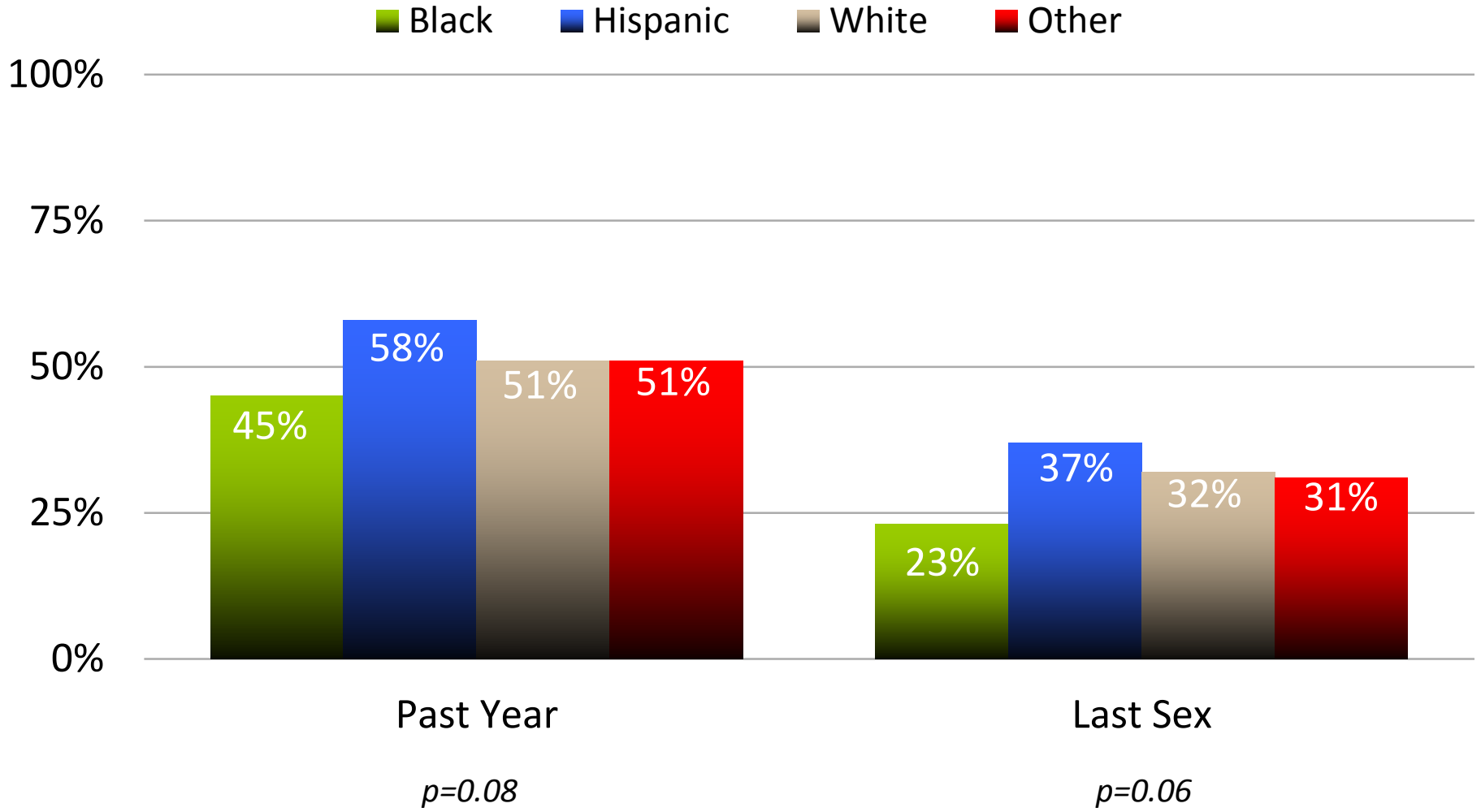
<10k	19%
10k-30k	33%
30k-50k	20%
>50k	27%

## Education

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

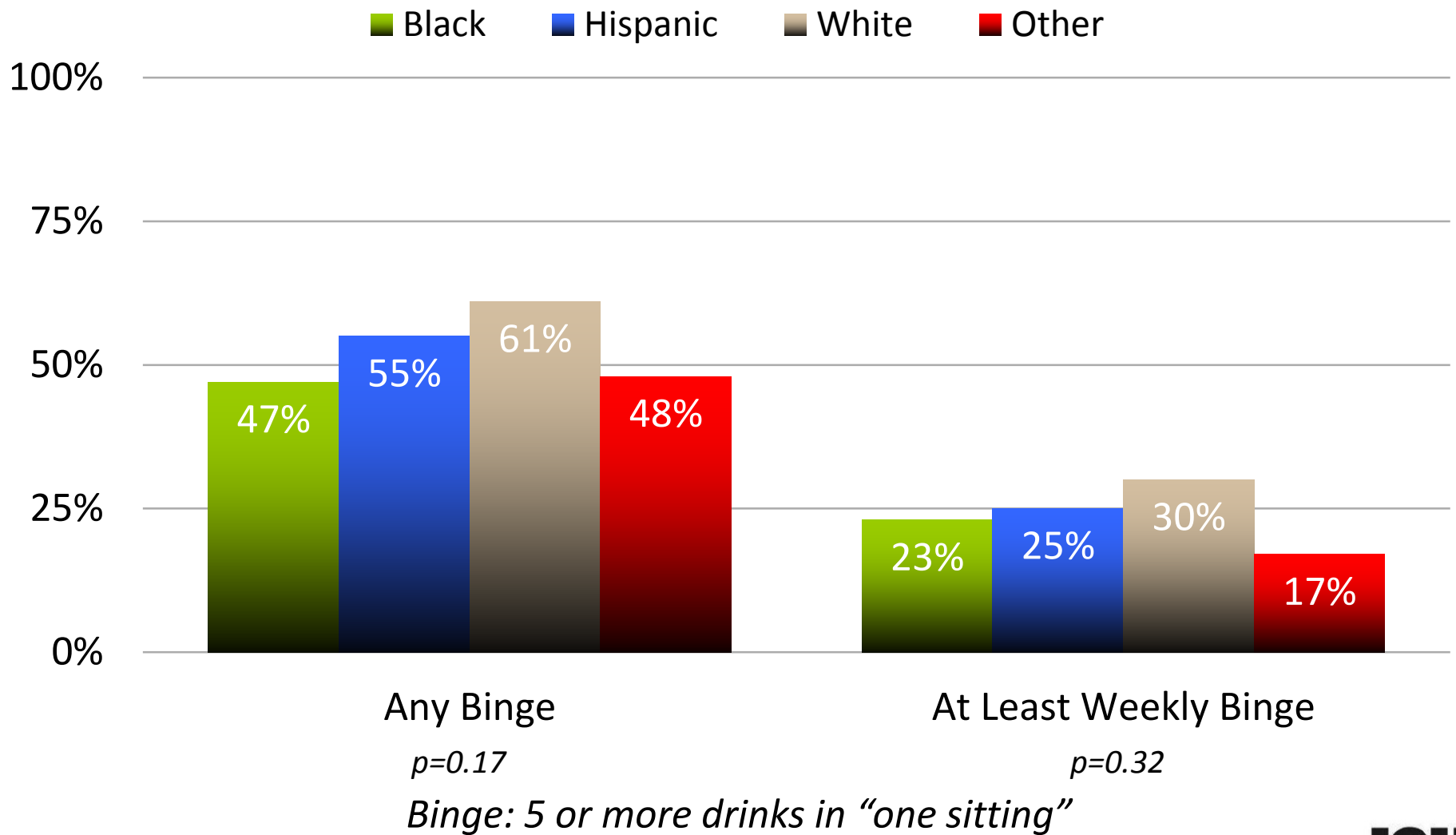
# UAI in Past Year and Last Sex by Race/Ethnicity

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



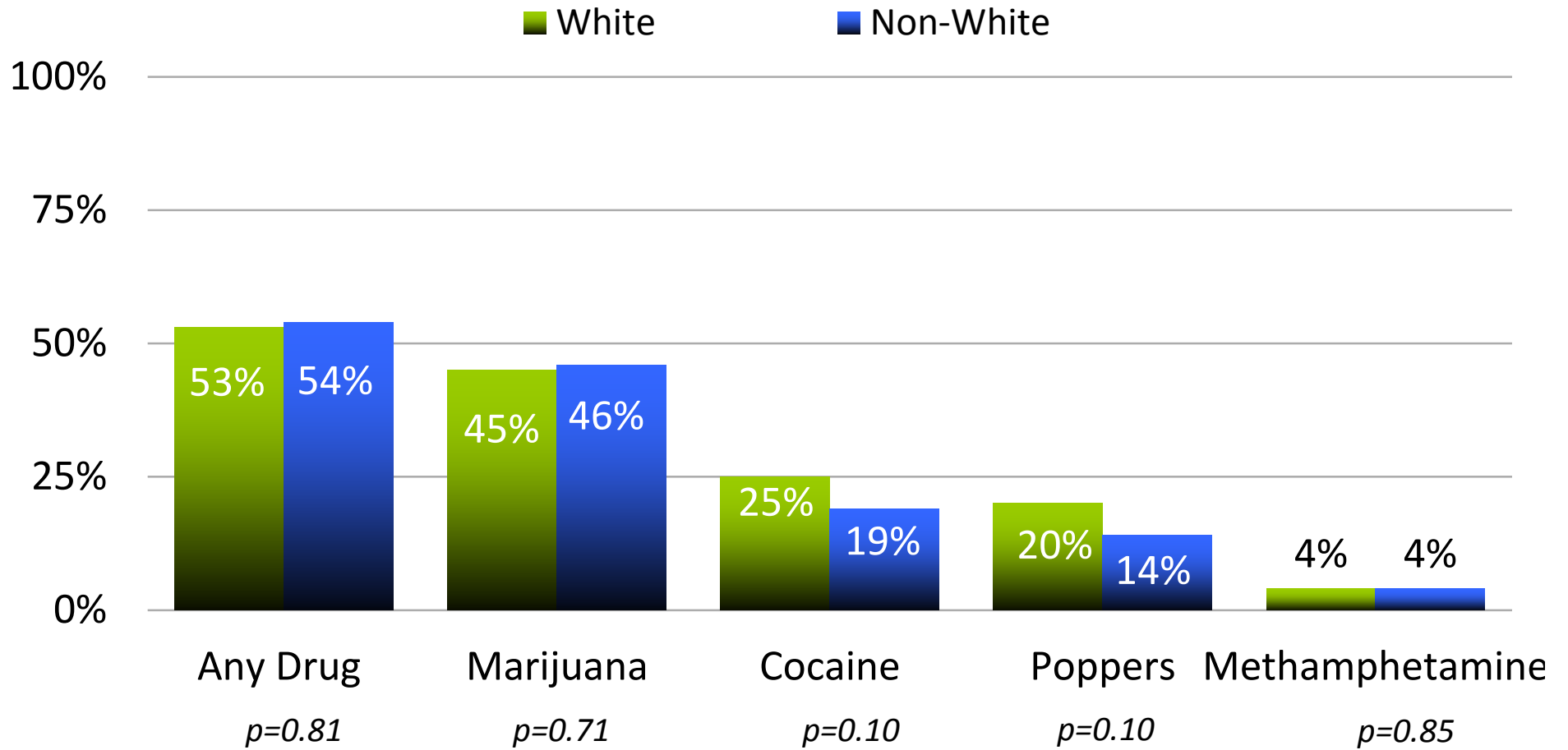
# Binge Alcohol Use in Past Year by Race/Ethnicity

NYC NHBS-MSM, 2011, n=510



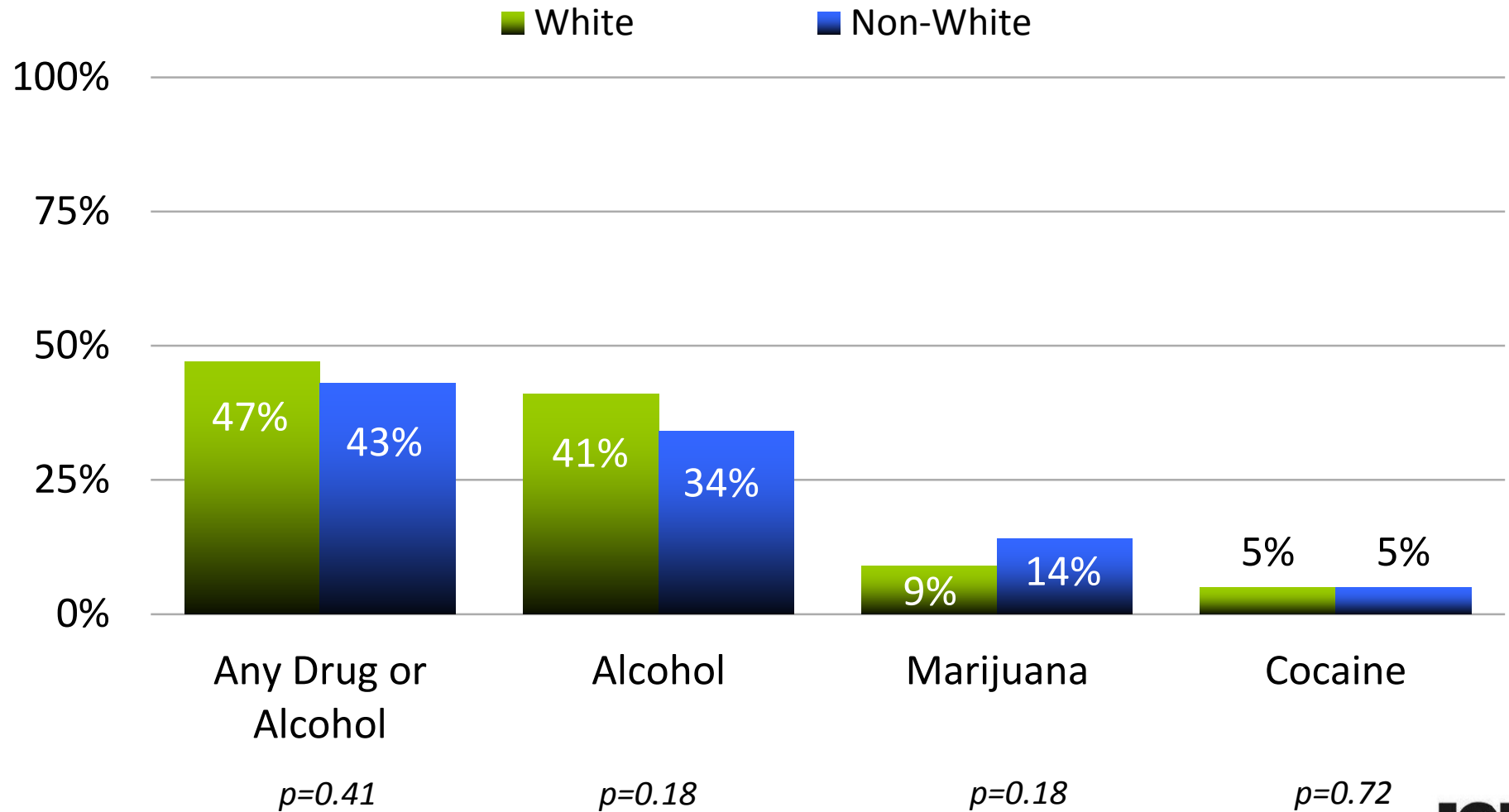
# Non-Injection Drug Use in Past Year

NYC NHBS-MSM, 2011, n=510



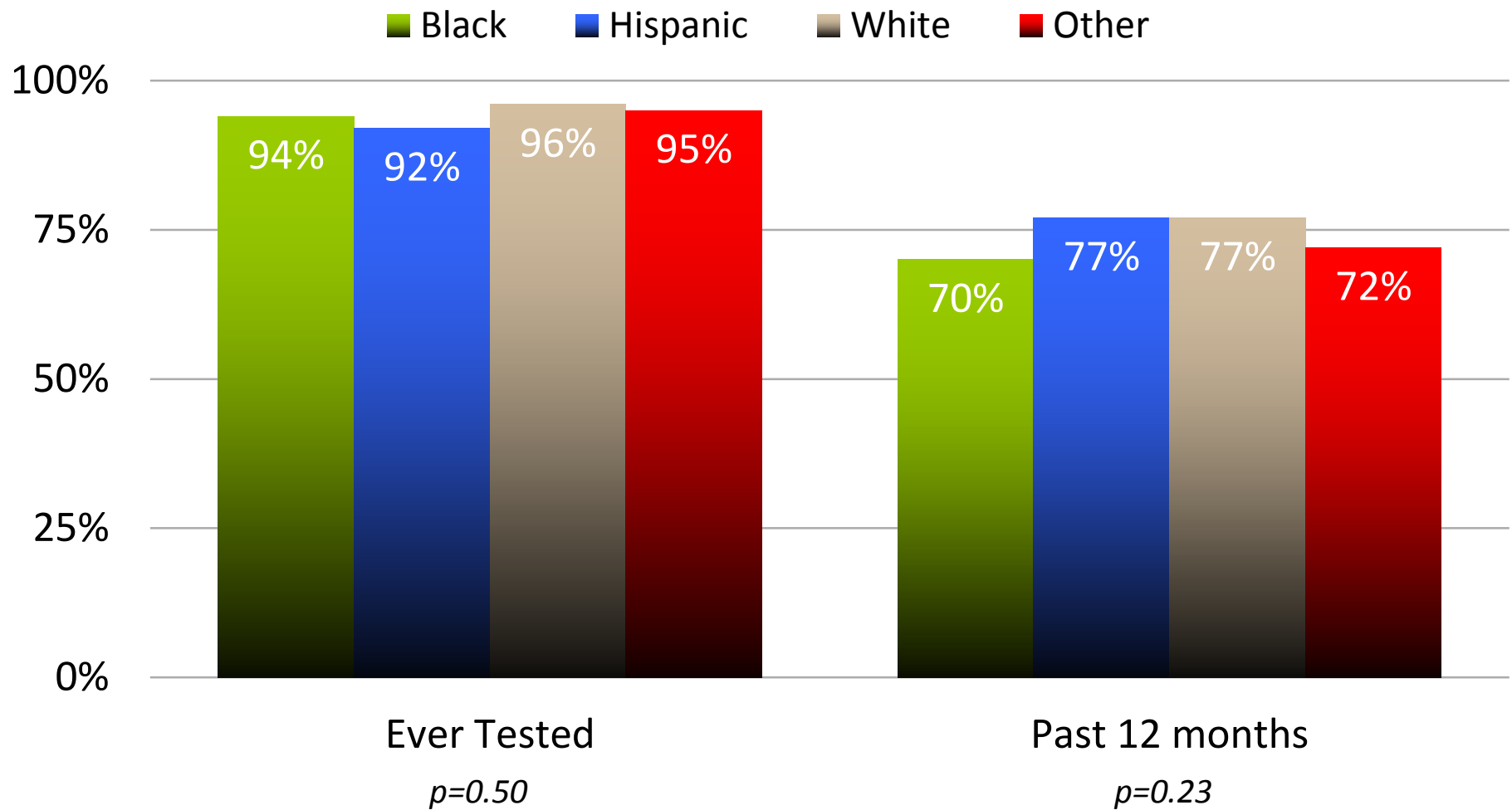
# Alcohol & Drug Use at Last Sex

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



# HIV Testing

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



# HIV Prevalence & Awareness

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

	HIV-Positive	95% CI	% Unaware*
<b>Overall</b>	19.2%	15.6 – 22.7%	40%
<b>By Race</b>			
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=0.004*

*p=0.02†*

\* Among MSM who tested HIV positive (n=91)

†Fisher's Exact Test

# HIV Prevalence by Age

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

	Black	Hispanic	White	Other	Overall	P-value
<b>Age</b>						
18-29	32.1%	9.0%	10.0%	7.1%	13.8%	0.05
30-39	38.9%	25.0%	8.3%	11.1%	20.0%	0.04*
40-49	64.7%	17.6%	10.7%	33.3%	25.6%	0.0004*
≥50	52.9%	50.0%	17.6%	0.0%	37.5%	0.11*

\* Fisher's Exact Test



# NYC National HIV Behavioral Surveillance Team

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