Factors associated with multiple sex partners in the same encounter (group sex) among New York City (NYC) men who have sex with men (MSM) recruited online



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Objective : To describe the prevalence and correlates of self-reported group sex participation in the past 12 months among MSM who participated in an online survey.

Study Design

- Self-administered online cross-sectional survey of MSM
- Launched in 6 U.S. cities Baltimore, Boston, Dallas, Los Angeles, New York City, & San Francisco
- Recruitment on websites that cater to MSM
- Data collection occurred April 16 to August 6, 2007
- Anonymous Voluntary
- No incentive
- Only NYC data is used in this analysis

Recruitment Websites

N =1,323,400

Clicks on Banner Ad

N =4,760

Scr N = 4,305

ions repres

Race/Ethnicity White Black

Age 18 - 19 - 29

subg

Hispanic Other

39

terose xua

HIV Test Past 12 Mo

Self-Reported HIV Status

HIV Negative HIV Positive

n status

Sexual Preference

- Manhunt.net
- Myspace.com
- Friendster.com 365gay.com
- Gay.com • Dlist.com
- . Blackgaychat.com .
- Bigmuscle.com

Study Sample

Selected Sample Characteristics n = 1,700 *

1,067 215

394 195

58

1,438

218 21

924 776

Eligible N = 4,143

Complete

N =2.046 (49%) Sex in the past 12 Months N =1,700 (41%)

%

8.6 5.5

12.9 49.1

23.2

85.3

12.9

54.3 45.7

90 F

nber of times a banner ad appeared the particip

- Eligibility
- 18+ years old Born male
- · Resident of NYC metropolitan area via zip code

Recruitment Banner Ads

labels

ating websit

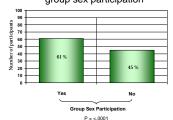
Methods

- The variable group sex was defined as having more than one sex partner during the same sexual encounter
- Simultaneous multivariate logistic regression model was used to assess statistical differences Variables assessed include:
 - Sociodemographics
 - Sexual risks
 - Non-injection drug use
 - use of Viagra, Levitra, Cialis (VLC) > 5 sexual partners
 - meeting sex partners online
 - Unprotected anal intercourse (UAI)
 - · HIV testing history
 - STD history

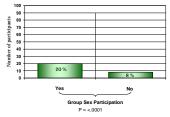
Data Security

- Secure Sockets Layer (SSL) encryption technology was used
- Data was posted daily on a secure site for direct access by project areas
 - Daily access to data of local project area (NYC)
 - Data was password protected and used certificate-driven encryption
- Host website did not use cookies nor did it use: IP addresses
 - Email address
 - Web logs - Or any identifying information

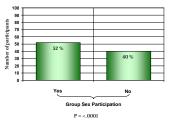
* Proportion reporting UAI by group sex participation



Proportion reporting an STD by group sex participation



* Proportion reporting non-injection drug use by group sex participation



* Past 12 months

Conclusions

- Some correlates of group sex participation may be inherent to the activity including more sexual partners and use of performance enhancing drugs which allow for multiple, insertive sexual encounters.
- Participants' higher frequency of UAI and STDs underlines the need to reach this group with HIV prevention messages.
- Internet-based behavioral surveys appear to be a feasible method of conducting sexual behavior research of MSM using direct marketing (banner ads) as an approach for recruitment.

- ->30
- Acknowledgements:

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- tested for HIV

– UAI

These findings are representative of NYC MSM

that completed surveys from these websites. Risk behaviors and HIV testing history are self-report and therefore subject to recall bias.

Limitations

- Underreporting may have occurred, as some questions were of a sensitive nature.
- Possible underrepresentation of non-White MSM, given access to the internet.
- The survey was available only in English. Survey length may have discouraged participation.

Reveal Communication

Matthew Amsden

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- Group sex was frequently reported in this online sample
- of MSM (n=680; 40%).
 In bivariate analysis, significant variables were:
 - HIV positive status
 - use of VLC
 history of an STD
 - >5 sexual partners
 - Non-injection drug use
 tested for HIV, past 12 mo.
 - meeting sex partners online
 - UAI

roups	do not alway	s add up	to totals	due to	missing (data

Multivariate analysis of group sex by variables significant in the bivariate analysis 95%

	AOR	Confidence Intervals
Viagra/Levitra/Cialis Use, Past 12 months	1.4	1.0 - 2
History of an STD Past 12 months	1.7	1.2 - 2.5
>5 Sexual Partners, Past 12 months	4	3.1 - 5.2
Met Partner online, Past 12 months	2.4	1.8 - 3.1
HIV Test, Past 12 months	1.4	1.1 – 1.7
UAI, Past 12 Months	1.5	1.2 - 1.9

Results In multivariate analysis, the following variables were significantly associated with group sex in the past 12 months:

- use of VLC

- history of an STD

- >5 sexual partners

meeting sex partners online

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