

High-risk sex among drug-using, bisexual men of color in Chicago

SATH-CAP

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NIDA NATIONAL INSTITUTE ON DRUG ABUSE **30** Years
1974-2004



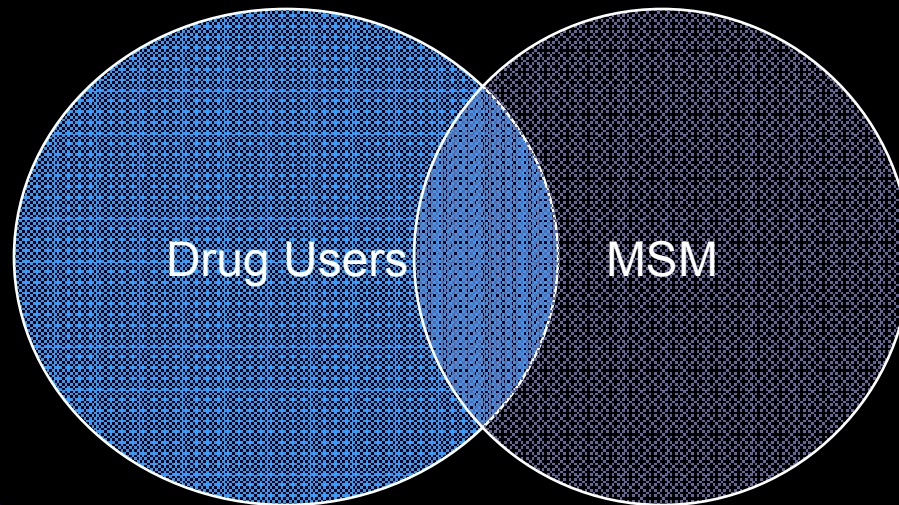
SATHCAP: The Role of Drug Use in Sexual Transmission of HIV

- Study initiated and funded by the National Institute on Drug Abuse (NIDA) to examine the transmission of HIV among drug-using populations and from drug-using to non-drug using populations

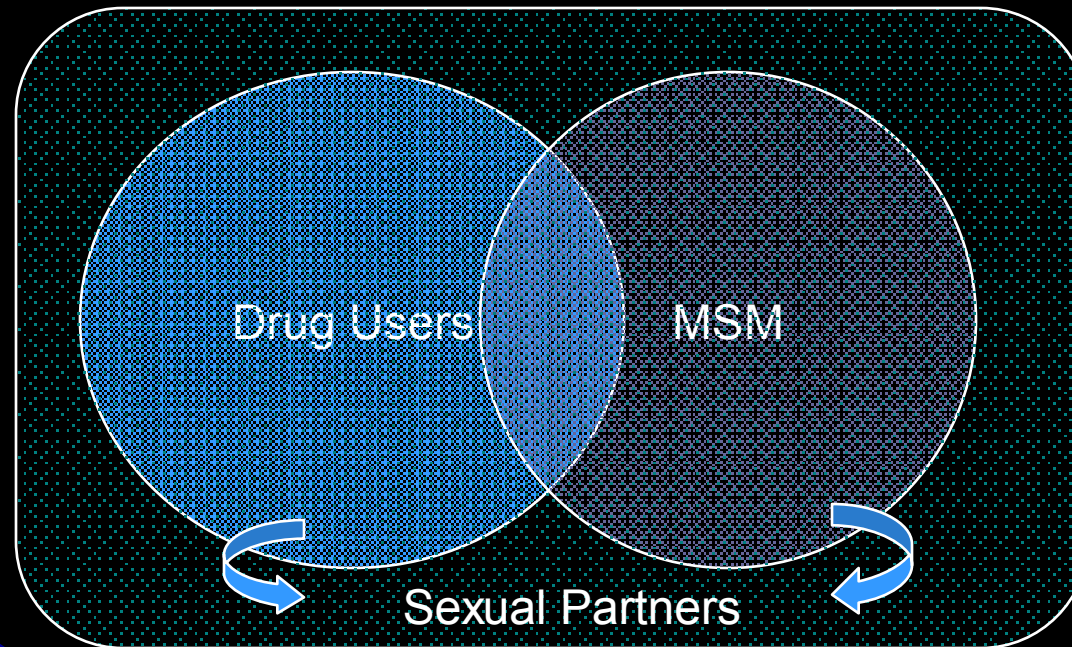
Dual Risk Group Recruitment

- Simultaneous sampling of two primary and potentially overlapping risk groups using respondent-driven sampling (RDS)
 - drug users (cocaine/crack, heroin, methamphetamine, injection drug users)
 - men who have sex with men (MSM)
- Secondary sample of sex partners and a tertiary sample of 'partners of partners'

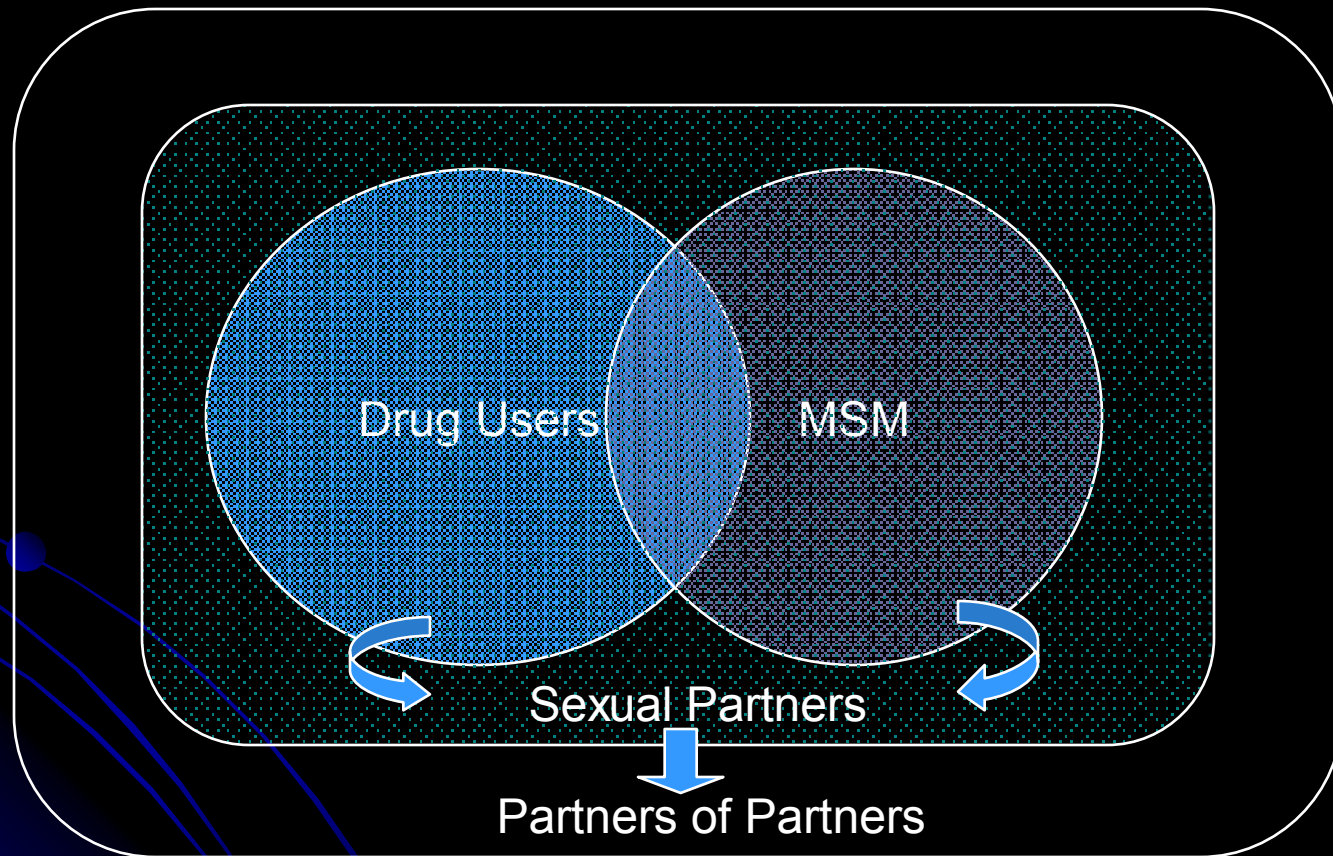
Dual Risk Group Recruitment



Drug users and MSM recruit sex partners

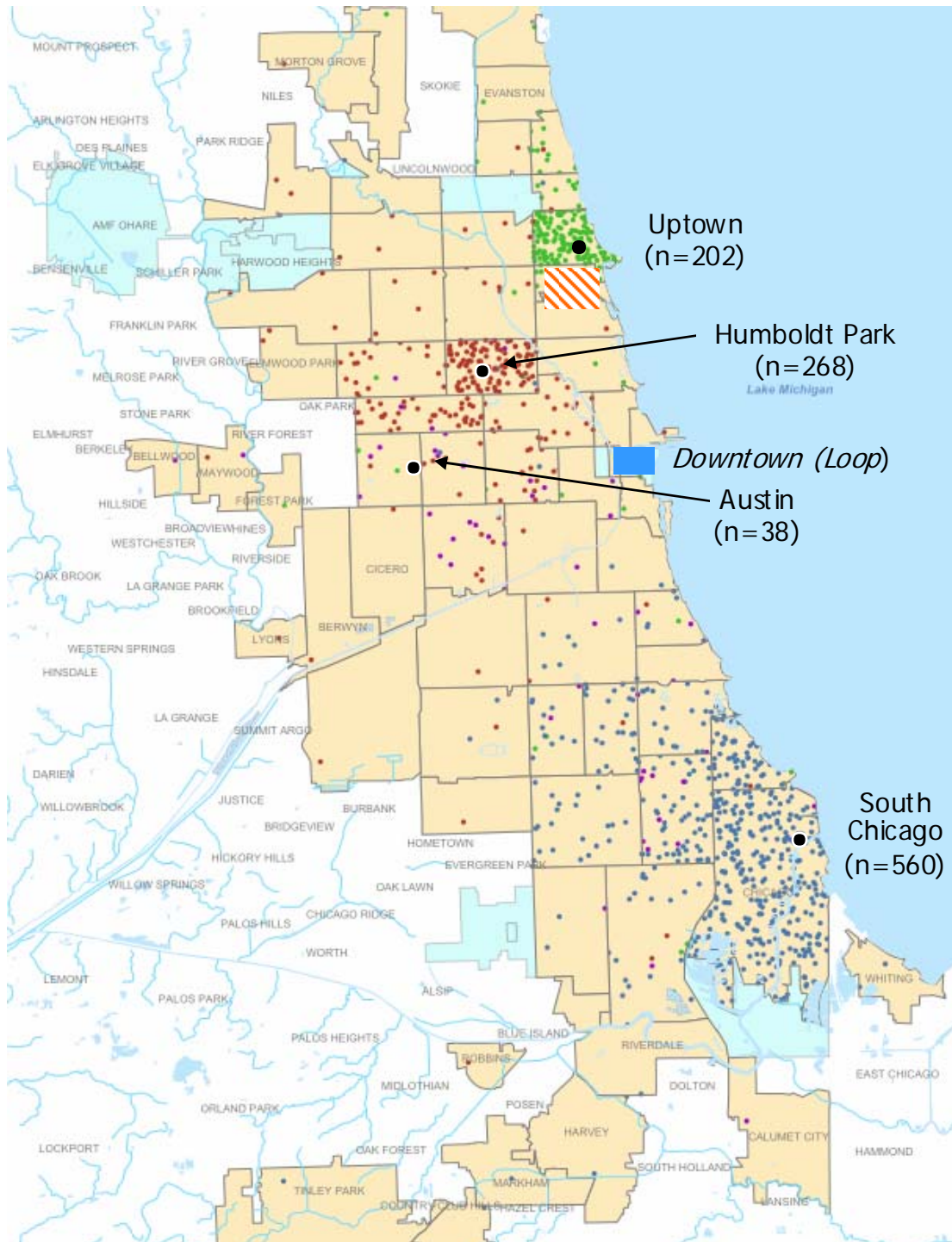


Sex partners recruit their sex partners



Respondent Driven Sampling (RDS)

- Variant of chain-referral sampling
- Start with non-randomly selected “seeds”
- Participants receive a limited number of coupons to recruit eligible peers
- Recruitment continues over multiple “waves”



Chicago Recruiting Sites

South Chicago

Uptown

Humboldt Park

Austin

(initiated near end of Wave-1)

Southeast Side Fieldstation



Humboldt Park Fieldstation



Uptown Fieldstation



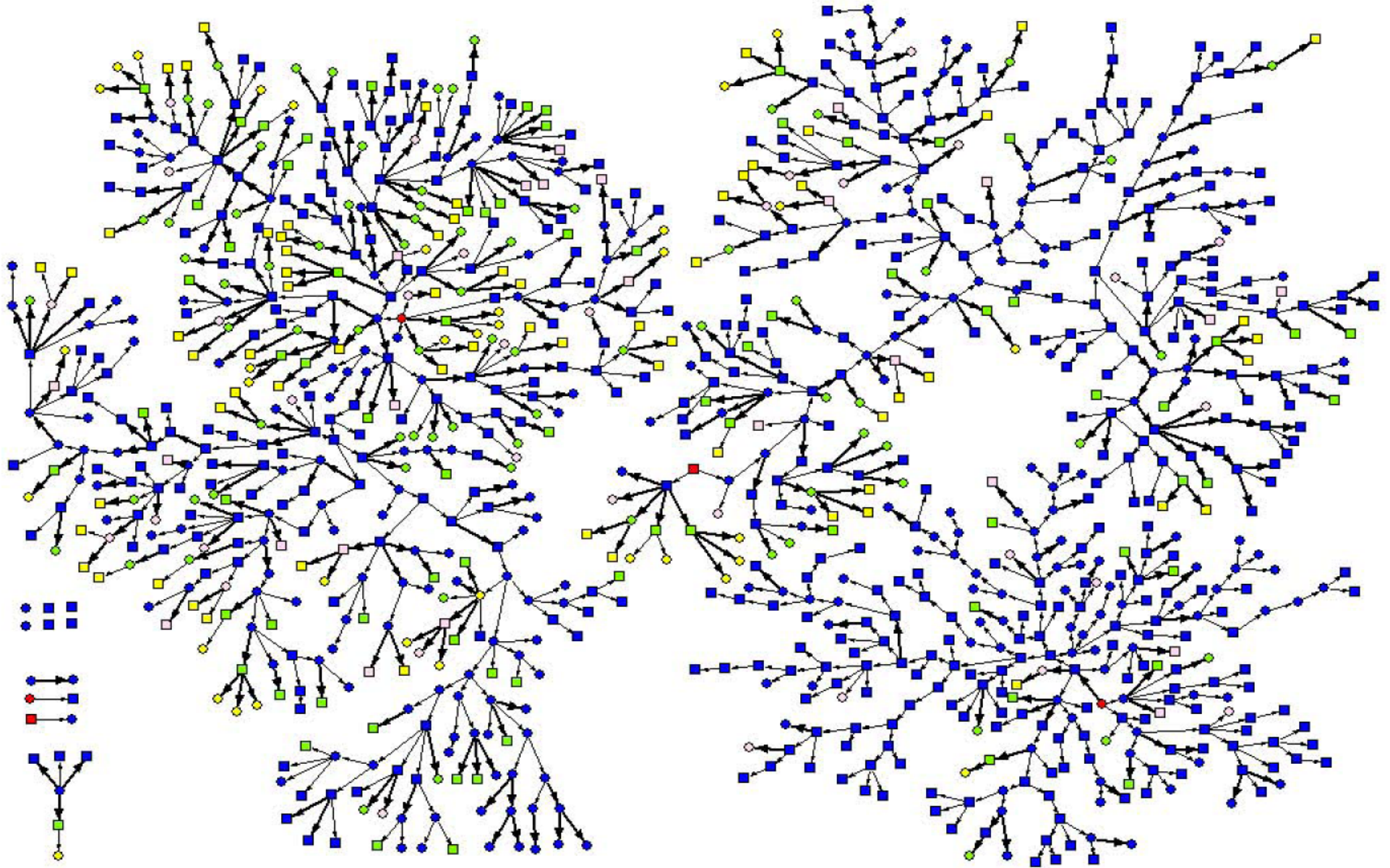
Respondent-Driven Sampling (RDS)

6 “seed” recruiters



1062 recruits who
eligible and completed data collection

RDS Recruitment Tree



Demographic Characteristics

Chicago: SATH-CAP, Wave-1

(n=1068)

- Males = 61%
- Race/Ethnicity
 - African American: 72%
 - Hispanic: 20%
 - Non-Hispanic White: 6%
- Median age: 44 years
- Low SES: 74% ≤ \$500 mo.

Status at Enrollment: Wave 1 (n=1068)

Enrolled as . . .	
Drug user/MSM/MSMW	71%
Sex partner	20%
Sex partner of sex partner	9%
Hard drug use, past 30 days*	85%

* Self-reported in ACASI survey

Drug Use, Past 30 Days

Crack **59%**

Cocaine HCL 20%

Heroin **40%**

Meth/amphetamine 4%

IDU 28%

Men's Sexual Activity, past 6 mo

- 85% of men sexually active (n=557)
 - 23% of all men reported sex with a man
-
- Of MSM, 74% reported sex with women

Men's Sex Partners by Sexual Self-Identification

(n=550)

Sex partners (6 mo)	Sexual Identity		
	Homosexual	Bi/Other	Hetero
Male & Female 20% (n=110)	5% (5)	79% (86)	17% (18)
Female only 73% (n=402)	0.5% (2)	22% (87)	78% (313)
Male only 7% (n=38)	50% (19)	45% (17)	5% (2)

Men's Sex Partners by Race/Ethnicity

Sex partners (6 mo)	NH-Black (n=411)	Hispanic (n=105)	NH-White (n=24)
Both males & females	23%	12%	*
Females only	70%	86%	*
Males only	7%	2%	*

Sex Practices Data

- Last time had sex with partner, past 6 months
 - we ask about 3 most recent partners
 - If the 3 most recent partners did not include main partner, IDU partner, or female partner we also asked about them
- If >3 sex partners, we asked global questions about sex practices with any partners, past 6 months
 - 62% of MSMW had >3 sex partners
 - 29% of heterosexual men had >3 sex partners

MSM/W: anal sex common with male & female partners

Type of sex	Last time	Any, past 6 mo. >3 sex partners
Anal sex w/man	54%	88%
Anal sex w/woman	26%	76%
Anal sex with man & woman	19%	66% topped w/man 35% bottomed w/man

* Last time had sex in past 6 months with 3 most recent partners and, if not among 3 most recent, a main partner, an IDU partner and a female partner): of 109 MSMW with complete data, 64 reported a male (61 provided complete data) & 105 provided data on a female partner.

** Of those with >3 sex partners in past 6 months (n=68), any sex with any partner

MSMW: Other risky sex common with female partners

Type of sex	Last time*	Any, past 6 mo., if >3 sex partners**
Vaginal sex	73%	100%
Vaginal + anal w/man	24%	76%
≥2 female partners	24%	88%

* Last time had sex in past 6 months with 3 most recent partners and, if not among 3 most recent, a main partner, an IDU partner and a female partner): of 109 MSMW with complete data, 64 reported a male (61 provided complete data) & 105 provided data on a female partner.

** Of those with >3 sex partners in past 6 months (n=68), any sex with any partner

MSMW: type of anal sex, condom use with male partners

Type of anal sex	Last time*	Any, past 6 mo., if >3 sex partners**
Insertive no condom	39%	87%
	28%	60%
Receptive no condom	20%	44%
	11%	34%
Any anal, no condom	34%	66%

* Last time had sex in past 6 months with 3 most recent partners and, if not among 3 most recent, a main partner, an IDU partner and a female partner): of 109 MSMW with complete data, 64 reported a male (61 provided complete data) & 105 provided data on a female partner.

** Of those with >3 sex partners in past 6 months (n=68), any sex with any partner

Comparison with 1995 study of 536 MSMW in Chicago: male partners.

Type of anal sex	Last time	Any, past 6 mo. >3 sex partners	Any, past 6 mo., McKirnan et al.
Insertive no condom	39%	87%	67%
	28%	60%	25%
Receptive no condom	20%	44%	48%
	11%	34%	19%
Any anal no condom	34%	66%	15%

McKirnan D, Stokes JP, Doll L, Burzette R. Bisexually active men: social characteristics and sexual behavior. *J Sex Res.* 1995;32:64-75.

MSMW: condom use with female partners

Type of sex	Last time*	Any, past 6 mo., if >3 sex partners**
Anal w/o condom	26%	76%
	21%	68%
Vaginal w/o condom	73%	100%
	53%	94%

* Last time had sex in past 6 months with 3 most recent partners and, if not among 3 most recent, a main partner, an IDU partner and a female partner): of 109 MSMW with complete data, 64 reported a male (61 provided complete data) & 105 provided data on a female partner.

** Of those with >3 sex partners in past 6 months (n=68), any sex with any partner

Comparison with 1995 study of 536 MSMW in Chicago: female partners.

Type of sex	Last time	Any, past 6 mo. >3 sex partners	Any, past 6 mo., McKirnan et al.
Anal	26%	76%	17%
w/o condom	21%	68%	8%
Vaginal	73%	100%	67%
w/o condom	53%	94%	42%

McKirnan D, Stokes JP, Doll L, Burzette R. Bisexually active men: social characteristics and sexual behavior. *J Sex Res.* 1995;32:64-75.

Anal Sex Between Men is Associated with Stimulant Drug Use

(n=668)

Drug use		Anal sex with male
Crack cocaine		$p < .001$
	Yes	20%
	no	10%
Meth/amphetamine		$p < .06$
	Yes	6%
	No	3%
Heroin use		$p < .001$
	Yes	10%
	No	19%

Women: correlates of anal sex with men

- Primary/main sex partner**
- Gave partner money/drugs for sex**
- Younger age*
- Met male partner > 6 mo/<5 yrs. ago*
- Education beyond high school*
- Bisexual identity
- Bisexual behavior*
- Injected drugs

* $p < .05$, ** $p < .01$ in multivariate analysis

MSMW: Type of sex partner varies by sex

Partner type	Female partners	Male partners
Main	46%	22%
Friend, etc., but not main	63%	73%
Stranger	13%	14%
Trade	6%	11%

Acknowledgements

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