

SUPPLEMENTAL TABLES

Supplemental Table 1: Results of bivariate logistic models of the association of experienced non-volitional sex† and age at first non-volitional sex with six HIV-related sexual risk behaviors in the past 12 months among men who have sex with men†† aged 18-44 years: National Survey of Family Growth; 2002, 2006-2010

	Any Sexual risk indicators, past 12 months ¹	≥2 female sex partners ²	Had sex with injection drug user ³	Had sex with HIV-positive person ⁴	Exchanged sex for money or drugs ⁵	≥2 male sex partners ⁶
	PR (95%CI)	PR (95%CI)	PR (95%CI)	PR (95%CI)	PR (95%CI)	PR (95%CI)
Ever experienced non-volitional sex						
Yes	1.34 (1.06-1.68)	1.72 (1.22-2.41)	2.99 (1.16-7.66)	1.79 (0.84-3.81)	3.24 (1.75-6.00)	1.25 (0.89-1.76)
No	Reference	Reference	Reference	Reference	Reference	Reference
Age of first non-volitional sex experience						
< 18 years	1.25 (0.94 – 1.65)	1.63 (1.09 – 2.44)	1.55 (0.52 – 4.65)	1.74 (0.68 – 4.45)	3.01 (1.55 – 5.87)	1.08 (0.71 – 1.65)
≥ 18 years	1.58 (1.18 – 2.12)	1.91 (1.05 – 3.47)	6.48 (2.17 – 19.37)	1.92 (0.76 – 4.87)	3.80 (1.67 – 8.67)	1.65 (0.97 – 2.82)
Never experienced non-volitional sex	Reference	Reference	Reference	Reference	Reference	Reference
Age (years)						
18-24	1.61 (1.21-2.16)	2.48 (1.52-4.05)	1.05 (0.30-3.70)	0.57 (0.20-1.65)	1.73 (0.70-4.29)	1.36 (0.89-2.10)
25-34	1.45 (1.07-1.97)	2.21 (1.40-3.47)	1.77 (0.65-4.86)	0.55 (0.23-1.30)	1.30 (0.55-3.07)	1.13 (0.74-1.71)
35-44	Reference	Reference	Reference	Reference	Reference	Reference
Race/Ethnicity						
Hispanic	1.25 (0.96-1.62)	1.85 (1.21-2.84)	1.46 (0.47-4.57)	0.77 (0.33-1.83)	1.17 (0.51-2.67)	1.01 (0.70-1.44)
Non-Hispanic black	1.45 (1.14-1.86)	1.65 (1.02-2.68)	2.31 (0.60-8.85)	1.35 (0.56-3.25)	3.17 (1.45-6.97)	1.64 (1.10-2.45)
Other	1.12 (0.63-2.01)	1.10 (0.37-3.26)	3.95 (0.89-17.56)	1.62 (0.25-10.63)	1.43 (0.22-9.12)	1.52 (0.70-3.30)
Non-Hispanic white	Reference	Reference	Reference	Reference	Reference	Reference
Marital status						
Unmarried, not cohabitating	2.62 (1.78-3.84)	1.40 (0.87-2.25)	1.70 (0.57-5.06)	3.17 (1.01-9.99)	1.78 (0.77-4.11)	4.62 (2.36-9.06)
Married, cohabitating	Reference	Reference	Reference	Reference	Reference	Reference

Education level						
Less than high school diploma	1.27 (0.91-1.77)	2.79 (1.71-4.55)	2.85 (0.87-9.35)	0.80 (0.28-2.24)	2.29 (1.04-5.05)	0.54 (0.28-1.02)
High school graduate	0.99 (0.71-1.37)	1.35 (0.77-2.35)	1.54 (0.42-5.63)	0.38 (0.14-1.05)	1.45 (0.57-3.65)	1.02 (0.67-1.56)
Some college education	1.12 (0.86-1.46)	1.90 (1.20-3.01)	2.09 (0.57-7.72)	0.74 (0.34-1.62)	1.50 (0.64-3.51)	0.86 (0.60-1.24)
≥ 4 year college education	Reference	Reference	Reference	Reference	Reference	Reference
Income as % of poverty level						
< 99%	1.49 (1.17-1.89)	2.43 (1.71-3.46)	4.23 (1.83-9.76)	1.39 (0.61-3.15)	2.40 (1.23-4.69)	1.26 (0.91-1.96)
≥ 100%	Reference	Reference	Reference	Reference	Reference	Reference
Sexual Orientation						
Homosexual	1.85 (1.41-2.42)	0.14 (0.05-0.40)	0.89 (0.26-3.09)	7.33 (2.43-22.10)	0.81 (0.30-2.15)	8.17 (4.25-15.69)
Bisexual	1.34 (0.90-2.00)	0.81 (0.51-1.28)	0.99 (0.28-3.58)	2.67 (0.60-11.93)	0.79 (0.36-1.70)	4.61 (2.17-9.79)
Heterosexual	Reference	Reference	Reference	Reference	Reference	Reference
Men who have sex with men and women (MSMW)						
Yes	0.79 (0.61-1.01)	----	1.24 (0.37-4.20)	0.42 (0.23-0.76)	1.53 (0.61-3.84)	0.48 (0.35-0.66)
No	Reference	----	Reference	Reference	Reference	Reference

-† Non-volitional sex was defined as having been forced by a male or female to have vaginal, oral or anal sex against one's will.

†† Men who have sex with men were defined as respondents who reported ever having oral or anal intercourse with another man.

-Abbreviations: PR: Prevalence Ratio; CI: Confidence Interval

Supplemental Table 2: Results of multivariate logistic models of the association of experienced non-volitional sex† with six HIV-related sexual risk behaviors in the past 12 months among men who have sex with men†† aged 18-44 years: National Survey of Family Growth; 2002, 2006-2010

	Any Sexual risk indicators, past 12 months ¹	≥2 female sex partners ²	Had sex with injection drug user ³	Had sex with HIV-positive person ⁴	Exchanged sex for money or drugs ⁵	≥2 male sex partners ⁶
	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)
Ever experienced non-volitional sex						
Yes	1.24 (0.98-1.56)	1.32 (0.93-1.89)	2.42 (1.10-5.32)	2.00 (0.89-4.52)	2.62 (1.44-4.76)	1.20 (0.86-1.67)
No	Reference	Reference	Reference	Reference	Reference	Reference
Age (years)						
18-24	1.36 (1.02-1.82)	1.94 (1.13-3.34)				
25-34	1.35 (1.02-1.78)	1.80 (1.09-2.98)				
35-44	Reference	Reference				
Race/Ethnicity						
Hispanic	1.08 (0.83-1.41)	1.27 (0.80-2.04)			0.86 (0.37-2.00)	0.92 (0.67-1.28)
Non-Hispanic black	1.19 (0.95-1.50)	1.14 (0.75-1.74)			2.24 (1.08-4.64)	1.47 (0.99-2.18)
Other	0.94 (0.50-1.79)	0.93 (0.36-2.40)			1.36 (0.36-5.12)	1.44 (0.67-3.12)
Non-Hispanic white	Reference	Reference			Reference	Reference
Marital status						
Unmarried, not cohabitating	1.88 (1.32-2.68)			1.03 (0.32-3.35)		1.56 (0.86-2.81)
Married, cohabitating	Reference			Reference		Reference
Education level						
Less than high school diploma		1.03 (0.61-1.74)			1.33 (0.63-2.82)	
High school graduate		0.67 (0.41-1.09)			0.82 (0.37-1.81)	
Some college education		1.07 (0.73-1.58)			0.97 (0.44-2.13)	
≥ 4 year college education		Reference			Reference	
Income as % of poverty level						

< 99%	1.36 (1.04-1.77)	1.97 (1.31-2.98)	3.88 (2.02-7.46)		1.97 (1.06-3.66)	
≥ 100%	Reference	Reference	Reference		Reference	
Sexual Orientation						
Homosexual	1.47 (1.13-1.92)	0.17 (0.06-0.49)		7.06 (2.99-16.66)		7.02 (3.93-12.54)
Bisexual	1.17 (0.88-1.56)	0.89 (0.62-1.27)		2.67 (0.85-8.37)		3.90 (2.02-7.52)
Heterosexual	Reference	Reference		Reference		Reference
Men who have sex with men and women (MSMW)						
Yes				0.82 (0.37-1.80)		1.23 (0.84-1.80)
No				Reference		Reference

† Non-volitional sex was defined as having been forced by a male or female to have vaginal, oral or anal sex against one's will.

†† Men who have sex with men were defined as respondents who reported ever having oral or anal intercourse with another man.

1. Adjusted for year of survey cycle, age, race/ethnicity, marital status, income, and sexual orientation

2. Adjusted for year of survey cycle, age, race/ethnicity, education, income, and sexual orientation

3. Adjusted for year of survey cycle, and income

4. Adjusted for year of survey cycle, marital status, sexual orientation, and men who have sex with men and women (MSMW)

5. Adjusted for year of survey cycle, race/ethnicity, education, and income

6. Adjusted for year of survey cycle, race/ethnicity, marital status, sexual orientation, and MSMW

(-Covariates included in each model were associated at $p < 0.05$ in bivariate analysis)

-Abbreviations: aPR: Adjusted Prevalence Ratio; CI: Confidence Interval

Supplemental Table 3: Results of multivariate logistic models of the association of age at first non-volitional sex† with six HIV-related sexual risk behaviors in the past 12 months among men who have sex with men†† aged 18-44 years: National Survey of Family Growth; 2002, 2006-2010

	Any Sexual risk indicators, past 12 months ¹	≥2 female sex partners ²	Had sex with injection drug user ³	Had sex with HIV-positive person ⁴	Exchanged sex for money or drugs ⁵	≥2 male sex partners ⁶
	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)	aPR (95%CI)
Age of first non-volitional sex experience						
< 18 years	1.17 (0.89-1.54)	1.30 (0.86-1.95)	1.45 (0.54-3.87)	2.07 (0.81-5.28)	2.67 (1.45-4.93)	1.05 (0.68 – 1.63)
≥ 18 years	1.39 (1.09-1.77)	1.40 (0.82-2.39)	4.40 (1.78-10.88)	1.84 (0.68-5.00)	2.52 (1.17-5.43)	1.50 (0.98 – 2.29)
Never experienced non-volitional sex	Reference	Reference	Reference	Reference	Reference	Reference
Age (years)						
18-24	1.38 (1.05-1.82)	1.95 (1.14-3.33)				
25-34	1.34 (1.02-1.76)	1.80 (1.09-2.98)				
35-44	Reference	Reference				
Race/Ethnicity						
Hispanic	1.07 (0.82-1.39)	1.28 (0.79-2.05)			0.86 (0.37-2.00)	0.94 (0.68-1.29)
Non-Hispanic black	1.19 (0.95-1.50)	1.14 (0.75-1.73)			2.26 (1.09-4.66)	1.47 (1.00-2.14)
Other	0.98 (0.53-1.81)	0.93 (0.36-2.40)			1.36 (0.37-4.99)	1.42 (0.64-3.19)
Non-Hispanic white	Reference	Reference			Reference	Reference
Marital status						
Unmarried, not cohabitating	1.82 (1.28-2.58)			1.04 (0.33-3.26)		1.51 (0.86-2.64)
Married, cohabitating	Reference			Reference		Reference
Education level						
Less than high school diploma		1.03 (0.61-1.75)			1.32 (0.64-2.75)	
High school graduate		0.67 (0.41-1.09)			0.82 (0.38-1.78)	
Some college education		1.07 (0.73-1.58)			0.96 (0.44-2.11)	

≥ 4 year college education		Reference		Reference	
Income as % of poverty level					
< 99%	1.36 (1.06-1.75)	1.96 (1.30-2.95)	3.53 (1.97-6.31)	1.98 (1.09-3.60)	
≥ 100%	Reference	Reference	Reference	Reference	
Sexual Orientation					
Homosexual	1.49 (1.15-1.92)	0.17 (0.06-0.49)		7.06 (2.99-16.68)	7.09 (4.05-12.40)
Bisexual	1.15 (0.86-1.53)	0.88 (0.62-1.27)		2.68 (0.86-8.32)	3.90 (2.02-7.52)
Heterosexual	Reference	Reference		Reference	Reference
Men who have sex with men and women (MSMW)					
Yes				0.82 (0.38-1.79)	1.23 (0.84-1.79)
No				Reference	Reference