

Table S1. Full regression models of sexual behaviour among 15-to-24 year-old women in KwaZulu-Natal, South Africa (2014-2015). This table presents all the coefficients for Models 2, 4, 6, and 8 in Table 3.

	^a Sexual frequency: categories (1-5)	Sex 10+ times (0/1)	^b Sex frequency and inconsistent condom use (0-5)	Sex 10+ times and inconsistent condom use (0/1)
Model type:	Ordered logit	Logit	Ordered logit	Logit
Model #	2	4	6	8
Age disparate	1.32** (1.03 - 1.71)	1.48*** (1.12 - 1.96)	1.28** (1.00 - 1.64)	1.43** (1.04 - 1.96)
Age of woman	1.11*** (1.04 - 1.18)	1.07* (0.99 - 1.15)	1.05* (1.00 - 1.11)	1.06 (0.98 - 1.15)
Education (ref: <secondary complete)				
Some secondary	2.04*** (1.24 - 3.37)	2.09** (1.01 - 4.31)	2.79** (1.17 - 6.63)	2.46* (0.87 - 6.98)
Grade 12 complete	2.31*** (1.40 - 3.79)	2.39** (1.20 - 4.76)	2.68** (1.13 - 6.36)	2.59* (0.98 - 6.85)
Tertiary	1.77 (0.84 - 3.73)	1.98 (0.75 - 5.22)	1.86 (0.67 - 5.20)	2.04 (0.64 - 6.54)
Household monthly income (ref: ≤R500)				
R501-R2500	1.16 (0.84 - 1.60)	1.17 (0.78 - 1.74)	1.06 (0.77 - 1.47)	1.02 (0.68 - 1.53)
R2501-R6000	0.88 (0.60 - 1.29)	0.91 (0.57 - 1.47)	0.93 (0.62 - 1.40)	0.88 (0.53 - 1.44)
>R6000	1.65 (0.87 - 3.11)	1.61 (0.71 - 3.62)	1.11 (0.60 - 2.05)	1.07 (0.44 - 2.56)
Missing income data	4.24*** (2.38 - 7.54)	4.42*** (2.21 - 8.81)	2.17** (1.18 - 3.97)	2.80*** (1.47 - 5.33)
Away from home >1 month in last year	0.71* (0.49 - 1.02)	0.63** (0.41 - 0.98)	1.02 (0.70 - 1.48)	0.69 (0.42 - 1.14)
Sources of HIV information (0-12)	0.91** (0.83 - 1.00)	0.89** (0.81 - 0.98)	0.91** (0.84 - 1.00)	0.89** (0.81 - 0.98)
Self-reported HIV-positive (ref: negative/not tested)				
Positive	0.76 (0.51 - 1.13)	0.67* (0.42 - 1.06)	0.57** (0.36 - 0.92)	0.49*** (0.29 - 0.81)
Refused/missing	0.74	0.55	0.76	0.74

Partner believed to be HIV-positive	(0.37 - 1.47) 1.31 (0.58 - 2.97)	(0.16 - 1.96) 1.63 (0.62 - 4.33)	(0.31 - 1.85) 1.16 (0.55 - 2.44)	(0.21 - 2.65) 1.51 (0.65 - 3.53)
Relationship length (ref: <1 year)				
1-3 years	1.80*** (1.25 - 2.58)	1.94** (1.17 - 3.22)	1.38** (1.00 - 1.89)	1.84** (1.07 - 3.16)
>3 years	3.08*** (2.15 - 4.41)	3.19*** (1.95 - 5.22)	1.97*** (1.42 - 2.74)	2.71*** (1.60 - 4.60)
Missing data	1.25 (0.64 - 2.45)	1.54 (0.55 - 4.28)	0.67 (0.25 - 1.84)	0.93 (0.27 - 3.25)
Nature of relationship (ref: casual)				
Spouse	6.81*** (2.88 - 16.13)	6.60*** (1.87 - 23.33)	4.10*** (1.69 - 9.94)	4.40** (1.16 - 16.73)
Regular partner	3.68*** (1.56 - 8.71)	2.54 (0.75 - 8.66)	2.36** (1.22 - 4.56)	2.50 (0.63 - 9.90)
Observations	1,336	1,336	1,336	1,336

Notes:

^aSex frequency in previous 12 months categories: once, 2-5, 6-10, 11-20, >20

^bSex frequency and inconsistent condom use: Sex frequency in previous 12 months categories (once, 2-5, 6-10, 11-20, >20) multiplied by a binary indicator of inconsistent condom use (0=consistent, 1=inconsistent). Therefore 0 represents no risk (no unprotected sex) and 5 represents high risk (most frequent condomless sex).

95% Confidence intervals in parentheses

*** p<0.01, ** p<0.05, * p<0.1.

Table S2. Ordered logistic and logistic regression models of sexual behaviour among 15-to-24 year-old women in KwaZulu-Natal, South Africa (2014-2015). Data restricted to partnerships of a year or longer in duration.

	^a Sexual frequency: categories (1-5)	Sex 10+ times (0/1)	^b Sex frequency and inconsistent condom use (0-5)	Sex 10+ times and inconsistent condom use (0/1)
Model type:	Ordered logit	Logit	Ordered logit	Logit
Model #	1	2	3	4
Age disparate	1.33*	1.55***	1.19	1.43**
	(0.98 - 1.80)	(1.14 - 2.10)	(0.91 - 1.57)	(1.01 - 2.02)
Age of woman	1.08*	1.02	1.04	1.03
	(1.00 - 1.16)	(0.93 - 1.12)	(0.97 - 1.11)	(0.94 - 1.13)
Education (ref: <secondary complete)				
Some secondary	1.78*	1.98	3.13**	2.43
	(0.97 - 3.29)	(0.84 - 4.63)	(1.01 - 9.72)	(0.80 - 7.33)
Grade 12 complete	2.01**	2.17*	2.91*	2.46*
	(1.12 - 3.62)	(0.96 - 4.94)	(0.97 - 8.71)	(0.89 - 6.83)
Tertiary	1.84	2.21	2.46	2.44
	(0.74 - 4.56)	(0.72 - 6.77)	(0.67 - 8.98)	(0.70 - 8.52)
Household monthly income (ref: ≤R500)				
R501-R2500	1.06	1.08	0.86	0.90
	(0.72 - 1.58)	(0.67 - 1.73)	(0.58 - 1.28)	(0.57 - 1.43)
R2501-R6000	0.93	0.97	0.77	0.88
	(0.60 - 1.43)	(0.58 - 1.62)	(0.46 - 1.28)	(0.51 - 1.51)
>R6000	1.41	1.37	0.69	0.72
	(0.63 - 3.17)	(0.55 - 3.41)	(0.35 - 1.36)	(0.28 - 1.89)
Missing income data	5.39***	5.95***	2.41**	3.03***
	(2.75 - 10.56)	(2.32 - 15.24)	(1.19 - 4.89)	(1.40 - 6.58)
Away from home >1 month in last year	0.68*	0.66*	0.97	0.74
	(0.44 - 1.04)	(0.40 - 1.06)	(0.65 - 1.46)	(0.43 - 1.28)
Sources of HIV information (0-12)	0.91*	0.88**	0.89**	0.87***
	(0.81 - 1.02)	(0.79 - 0.98)	(0.80 - 0.98)	(0.79 - 0.97)
Self-reported HIV-positive (ref: negative/not tested)				
Positive	0.84	0.79	0.55**	0.56**
	(0.54 - 1.31)	(0.48 - 1.32)	(0.32 - 0.94)	(0.32 - 0.97)
Refused/missing	0.67	0.44	0.69	0.58

Partner believed to be HIV-positive	(0.28 - 1.57) 1.41 (0.60 - 3.35)	(0.10 - 1.97) 1.47 (0.51 - 4.25)	(0.29 - 1.67) 1.20 (0.53 - 2.70)	(0.13 - 2.59) 1.37 (0.55 - 3.38)
Relationship length (ref: 1-3 years) >3 years	1.77*** (1.31 - 2.39)	1.73*** (1.20 - 2.49)	1.43** (1.03 - 2.00)	1.53** (1.04 - 2.26)
Nature of relationship (ref: casual) Spouse	6.95*** (2.78 - 17.39)	12.77*** (3.07 - 53.14)	4.54*** (1.83 - 11.28)	13.83*** (3.42 - 55.98)
Regular partner	3.41*** (1.49 - 7.78)	3.97** (1.24 - 12.67)	2.48*** (1.42 - 4.33)	7.11*** (2.24 - 22.61)
Observations	1,076	1,076	1,076	1,076

Notes:

^aSex frequency in previous 12 months categories: once, 2-5, 6-10, 11-20, >20

^bSex frequency and inconsistent condom use: Sex frequency in previous 12 months categories (once, 2-5, 6-10, 11-20, >20) multiplied by a binary indicator of inconsistent condom use (0=consistent, 1=inconsistent). Therefore 0 represents no risk (no unprotected sex) and 5 represents high risk (most frequent condomless sex).

95% Confidence intervals in parentheses

*** p<0.01, ** p<0.05, * p<0.1.

Table S3. Full regression models of sexual behaviour among 15-to-24 year-old *HIV-negative* women in KwaZulu-Natal, South Africa (2014-2015). This table presents all the coefficients for Models 2, 4, 6, and 8 in Table 4.

	^a Sexual frequency: categories (1-5)	Sex 10+ times (0/1)	^b Sex frequency and inconsistent condom use (0-5)	Sex 10+ times and inconsistent condom use (0/1)
Model type:	Ordered logit	Logit	Ordered logit	Logit
Model #	2	4	6	8
Age disparate	1.55*** (1.12 - 2.14)	1.62** (1.10 - 2.40)	1.54*** (1.13 - 2.09)	1.60** (1.09 - 2.36)
Age of woman	1.12*** (1.04 - 1.21)	1.06 (0.96 - 1.16)	1.03 (0.96 - 1.10)	1.05 (0.95 - 1.15)
Education (ref: <secondary complete)				
Some secondary	6.35*** (3.13 - 12.87)	14.66*** (2.64 - 81.43)	2.64*** (1.47 - 4.73)	10.48*** (1.85 - 59.30)
Grade 12 complete	7.64*** (3.64 - 16.05)	17.73*** (3.12 - 100.71)	2.57*** (1.40 - 4.72)	12.08*** (2.10 - 69.69)
Tertiary	5.85*** (2.28 - 14.99)	15.20*** (2.27 - 101.64)	2.24* (0.91 - 5.51)	10.85** (1.64 - 71.67)
Household monthly income (ref: ≤R500)				
R501-R2500	1.26 (0.84 - 1.89)	0.97 (0.57 - 1.64)	1.03 (0.71 - 1.49)	0.89 (0.52 - 1.50)
R2501-R6000	0.89 (0.56 - 1.41)	0.73 (0.41 - 1.31)	0.96 (0.61 - 1.49)	0.77 (0.43 - 1.39)
>R6000	1.90 (0.87 - 4.11)	1.26 (0.46 - 3.45)	1.35 (0.64 - 2.84)	0.92 (0.34 - 2.49)
Missing income data	5.47*** (2.64 - 11.32)	5.45*** (2.07 - 14.35)	3.05*** (1.49 - 6.25)	3.60*** (1.58 - 8.19)
Away from home >1 month in last year	0.55*** (0.35 - 0.86)	0.40*** (0.22 - 0.70)	0.67 (0.41 - 1.09)	0.37*** (0.19 - 0.71)
Sources of HIV information (0-12)	0.94 (0.84 - 1.04)	0.90* (0.80 - 1.01)	0.98 (0.89 - 1.09)	0.97 (0.87 - 1.08)
Partner believed to be HIV-positive	2.60 (0.26 - 25.51)	2.78 (0.38 - 20.22)	3.97 (0.63 - 25.15)	4.42 (0.59 - 33.21)
Relationship length (ref: <1 year)				
1-3 years	1.98***	2.13**	1.29	1.90*

	(1.21 - 3.23)	(1.11 - 4.09)	(0.84 - 1.96)	(0.94 - 3.84)
>3 years	3.42*** (2.14 - 5.49)	3.65*** (1.92 - 6.97)	2.29*** (1.52 - 3.44)	3.11*** (1.57 - 6.15)
Missing data	1.94** (1.02 - 3.68)	1.72 (0.52 - 5.63)	0.89 (0.30 - 2.65)	1.16 (0.30 - 4.54)
Nature of relationship (ref: casual)				
Spouse	9.47*** (3.93 - 22.85)	25.10*** (5.49 - 114.75)	5.44*** (1.84 - 16.06)	12.37*** (2.98 - 51.22)
Regular partner	4.82*** (2.52 - 9.24)	5.20*** (1.88 - 14.39)	3.32*** (1.66 - 6.64)	5.12*** (1.73 - 15.14)
Observations	894	894	894	894

Notes:

^aSex frequency in previous 12 months categories: once, 2-5, 6-10, 11-20, >20

^bSex frequency and inconsistent condom use: Sex frequency in previous 12 months categories (once, 2-5, 6-10, 11-20, >20) multiplied by a binary indicator of inconsistent condom use (0=consistent, 1=inconsistent). Therefore 0 represents no risk (no unprotected sex) and 5 represents high risk (most frequent condomless sex).

95% Confidence intervals in parentheses

*** p<0.01, ** p<0.05, * p<0.1.

Table S4. Ordered logistic and logistic regression models of sexual behaviour among 15-to-24 year-old *HIV-negative* women in KwaZulu-Natal, South Africa (2014-2015). Data restricted to partnerships of a year or longer in duration.

	^a Sexual frequency: categories (1-5)	Sex 10+ times (0/1)	^b Sex frequency and inconsistent condom use (0-5)	Sex 10+ times and inconsistent condom use (0/1)
Model type:	Ordered logit	Logit	Ordered logit	Logit
Model #	1	2	3	4
Age disparate	1.56** (1.06 - 2.29)	1.80*** (1.16 - 2.78)	1.43** (1.00 - 2.05)	1.66** (1.09 - 2.54)
Age of woman	1.10** (1.00 - 1.20)	1.02 (0.92 - 1.14)	1.02 (0.94 - 1.11)	1.02 (0.92 - 1.14)
Education (ref: <secondary complete)				
Some secondary	7.44*** (2.80 - 19.78)	13.91*** (2.06 - 94.18)	2.74*** (1.45 - 5.19)	9.60** (1.41 - 65.08)
Grade 12 complete	8.66*** (3.10 - 24.20)	15.54*** (2.26 - 106.94)	2.50*** (1.28 - 4.91)	10.32** (1.49 - 71.41)
Tertiary	6.44*** (1.85 - 22.46)	13.85** (1.60 - 120.00)	2.50 (0.83 - 7.54)	10.71** (1.23 - 93.25)
Household monthly income (ref: ≤R500)				
R501-R2500	0.99 (0.61 - 1.62)	0.79 (0.42 - 1.48)	0.81 (0.51 - 1.28)	0.71 (0.39 - 1.32)
R2501-R6000	0.86 (0.49 - 1.50)	0.72 (0.36 - 1.44)	0.81 (0.47 - 1.41)	0.78 (0.40 - 1.52)
>R6000	1.56 (0.60 - 4.08)	1.06 (0.33 - 3.45)	0.88 (0.34 - 2.27)	0.65 (0.21 - 2.04)
Missing income data	4.82*** (2.09 - 11.10)	4.82** (1.41 - 16.42)	3.10*** (1.39 - 6.95)	3.42** (1.29 - 9.09)
Away from home >1 month in last year	0.47*** (0.27 - 0.81)	0.38*** (0.20 - 0.72)	0.67 (0.39 - 1.16)	0.38*** (0.19 - 0.77)
Sources of HIV information (0-12)	0.92 (0.80 - 1.05)	0.88* (0.77 - 1.01)	0.96 (0.85 - 1.10)	0.94 (0.83 - 1.07)
Partner believed to be HIV-positive	1.88 (0.19 - 18.56)	2.18 (0.33 - 14.41)	2.94 (0.50 - 17.14)	3.50 (0.51 - 24.11)
Relationship length (ref: 1-3 years)				
>3 years	1.78***	1.80***	1.77***	1.71**

Nature of relationship (ref: casual)	(1.23 - 2.57)	(1.19 - 2.74)	(1.19 - 2.65)	(1.12 - 2.62)
Spouse	6.83*** (2.55 - 18.32)	37.61*** (6.19 - 228.56)	4.82** (1.45 - 15.96)	18.21*** (3.19 - 104.06)
Regular partner	3.08*** (1.32 - 7.15)	5.00** (1.38 - 18.05)	2.78** (1.23 - 6.26)	6.64*** (1.62 - 27.31)
Observations	721	721	721	721

Notes:

^aSex frequency in previous 12 months categories: once, 2-5, 6-10, 11-20, >20

^bSex frequency and inconsistent condom use: Sex frequency in previous 12 months categories (once, 2-5, 6-10, 11-20, >20) multiplied by a binary indicator of inconsistent condom use (0=consistent, 1=inconsistent). Therefore 0 represents no risk (no unprotected sex) and 5 represents high risk (most frequent condomless sex).

95% Confidence intervals in parentheses

*** p<0.01, ** p<0.05, * p<0.1.