

Multiple sex partners (3+), yes	58(21.8)	51(19.2)	-2.6	-9.5,4.2	0.452	20(23.8)	22(26.2)	+2.4	-10.7,15.5	0.722	0.506
Casual sex partners, yes	130(48.9)	118(44.4)	-4.5	-13.0,4.0	0.297	42(50.0)	45(53.6)	+3.6	-11.5,18.7	0.643	0.360
Inconsistent condom use with casual partners, yes	127(47.7)	86(32.3)	-15.4	-23.6,-7.2	<0.001	42(50.0)	36(42.9)	-7.1	-22.2,7.9	0.353	0.344

¶ Changes are only among the 350 men retained i.e. those seen at the baseline visit (07/2013-01/2015) and follow up visit (02/2015-09/2016)

Δ_{uc} Change in the uncircumcised group (proportion engaging in sexual risk behavior at follow up minus proportion at baseline)

Δ_c Change in the circumcised group (proportion engaging in sexual risk behavior at follow up minus proportion at baseline)

Table 4: Association between circumcision of HIV +ve men and subsequent sexual risk behaviors, circumcised versus uncircumcised ¶

Sexual risk behavior in last 12 months	Unadjusted			Adjusted ^{a,§}		
	PR	95% CI	p-value	PR	95% CI	p-value
Sexual activity	1.02	0.96,1.10	0.384	0.99	0.94,1.05	0.790
Alcohol before sex	0.89	0.70,1.13	0.352	0.94	0.75,1.18	0.613
Transactional sex	1.58	1.01,2.48	0.045	1.54	1.06,2.23	0.022
Multiple sexual partners (3+)	1.36	0.88,2.11	0.161	1.39	0.92,2.10	0.115
Casual sex partners	1.21	0.95,1.54	0.124	1.19	0.96,1.48	0.118
Inconsistent condom use with casual partners	1.33	0.98,1.79	0.068	1.25	0.94,1.67	0.131

¶ Associations are only among the 350 men retained i.e. those seen at the baseline visit (07/2013-01/2015) and follow up visit (02/2015-09/2016)

^a Adjusted for baseline age, marital status, community type, education status, religion, enrollment in HIV care, additional exposure to targeted messaging in the stylish living campaign, as well as the respective behavior at baseline

§ Full results for each adjusted model are included in supplements (Supplemental Table 1)

Supplements

Supplemental Table 1: Association between circumcision of HIV +ve men and subsequent sexual risk behaviors, circumcised versus uncircumcised ¶

	(1) Sexual activity	(2) Alcohol before sex	(3) Transactional sex	(4) Multiple sex partners	(5) Casual sex partners	(6) Inconsistent condom use with casual partners
Circumcision status						
uncircumcised	1	[1,1]	1	[1,1]	1	[1,1]
circumcised	0.992	[0.935,1.053]	0.943	[0.750,1.184]	1.541*	[1.065,2.231]
increasing age	0.997	[0.993,1.002]	1.002	[0.989,1.016]	0.981	[0.946,1.017]
Marital status						
unmarried	1	[1,1]	1	[1,1]	1	[1,1]
married	1.042	[0.975,1.114]	0.909	[0.755,1.093]	0.976	[0.619,1.537]
never married	0.967	[0.756,1.237]	0.853	[0.470,1.548]	1.657	[0.860,3.194]
Community						
non-fishing	1	[1,1]	1	[1,1]	1	[1,1]
fishing	1.049	[0.980,1.123]	0.907	[0.749,1.098]	2.351	[0.876,6.311]
Education						
none	1	[1,1]	1	[1,1]	1	[1,1]
primary school	0.989	[0.913,1.072]	1.470*	[1.056,2.048]	1.131	[0.664,1.929]
secondary school or higher	0.996	[0.908,1.092]	1.008	[0.664,1.531]	1.236	[0.440,3.470]
Religion						
catholic	1	[1,1]	1	[1,1]	1	[1,1]
protestant	0.984	[0.916,1.057]	1.133	[0.919,1.397]	1.128	[0.677,1.881]
other	1.023	[0.957,1.094]	1.000	[0.508,1.969]	0.534	[0.0611,4.660]

Stylish campaign[∞]												
Participated	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]
Heard, did not participate	1.052	[0.971,1.139]	0.941	[0.715,1.238]	1.757	[0.782,3.949]	1.143	[0.577,2.263]	1.029	[0.699,1.514]	1.036	[0.674,1.592]
Never heard	0.992	[0.917,1.072]	0.975	[0.748,1.271]	2.797**	[1.377,5.682]	1.442	[0.778,2.671]	1.249	[0.895,1.742]	1.091	[0.736,1.619]
Missing (Unknown)	1.153	[0.964,1.380]	0.805	[0.446,1.451]	2.222	[0.218,22.62]	0.695	[0.101,4.782]	0.924	[0.339,2.517]	0.780	[0.204,2.986]
HIV care												
Yes, with ART	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]
Yes, with Septrin only	1.012	[0.943,1.087]	0.925	[0.731,1.170]	1.012	[0.637,1.608]	0.809	[0.491,1.332]	0.990	[0.779,1.257]	1.090	[0.795,1.493]
Yes, but no Septrin or ART	1.012	[0.960,1.066]	0.994	[0.826,1.196]	0.659	[0.389,1.118]	1.170	[0.714,1.918]	0.961	[0.745,1.239]	0.964	[0.683,1.360]
Never	0.897	[0.711,1.133]	0.765	[0.442,1.324]	0.934	[0.504,1.731]	2.307	[0.912,5.841]	1.029	[0.670,1.582]	0.795	[0.322,1.964]
Baseline behavior[§]												
No	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]
Yes	2.782***	[1.581,4.893]	3.062***	[2.311,4.055]	3.728***	[2.433,5.713]	3.364***	[2.214,5.112]	2.659***	[1.974,3.582]	2.557***	[1.790,3.653]
Missing					0.396	[0.0474,3.309]						
Observations	350		350		350		350		350		350	

Exponentiated coefficients; 95% confidence intervals in brackets

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

¶ Associations are only among the 350 men retained i.e. those seen at the baseline visit (07/2013-01/2015) and follow up visit (02/2015-09/2016)

§ Baseline behavior refers to the respective sexual risk behavior at the baseline visit (Visit 1)

Supplemental Table 2: Sensitivity analyses for association between circumcision of HIV +ve men and subsequent sexual risk behaviors, circumcised versus uncircumcised

	(1) Sexual activity	(2) Alcohol before sex	(3) Transactional sex	(4) Multiple sex partners	(5) Casual sex partners	(6) Inconsistent condom use with casual partners
Circumcision status						
uncircumcised	1	[1,1]	1	[1,1]	1	[1,1]
circumcised	1.000	[0.923,1.082]	0.932	[0.755,1.151]	1.426	[0.977,2.080]
increasing age	0.997	[0.991,1.004]	1.002	[0.988,1.016]	0.984	[0.951,1.017]
Marital status						
currently unmarried	1	[1,1]	1	[1,1]	1	[1,1]
currently married	1.053	[0.951,1.167]	0.934	[0.769,1.136]	1.032	[0.646,1.648]
never married	0.923	[0.685,1.243]	0.823	[0.469,1.142]	1.784	[0.877,3.629]
Community						
non-fishing	1	[1,1]	1	[1,1]	1	[1,1]
fishing	1.038	[0.968,1.113]	0.930	[0.773,1.119]	2.383*	[1.089,5.215]
Education						
none	1	[1,1]	1	[1,1]	1	[1,1]
primary school	0.978	[0.893,1.071]	1.428	[0.996,2.047]	1.087	[0.585,2.019]
secondary school or higher	0.992	[0.883,1.115]	0.957	[0.619,1.480]	1.085	[0.395,2.979]
Religion						
catholic	1	[1,1]	1	[1,1]	1	[1,1]
protestant	0.977	[0.891,1.070]	1.117	[0.909,1.371]	1.146	[0.765,1.715]
other	1.012	[0.877,1.167]	1.088	[0.637,1.858]	0.851	[0.194,3.737]
Stylish campaign[∞]						
Participated	1	[1,1]	1	[1,1]	1	[1,1]
Heard, did not participate	1.073	[0.944,1.221]	0.933	[0.722,1.205]	1.579	[0.659,3.784]
Never heard	0.992	[0.869,1.132]	0.953	[0.739,1.228]	2.686*	[1.222,5.902]
HIV care						
Yes, with ART	1	[1,1]	1	[1,1]	1	[1,1]
Yes, with Septrin only	1.010	[0.919,1.110]	0.972	[0.778,1.216]	1.092	[0.696,1.713]
Yes, but no Septrin or	1.020	[0.942,1.105]	1.034	[0.851,1.258]	0.726	[0.400,1.316]

ART												
Never	0.926	[0.695,1.232]	0.715	[0.375,1.362]	1.108	[0.410,2.991]	2.232	[0.951,5.236]	1.084	[0.620,1.895]	0.780	[0.297,2.045]
Baseline behavior§												
No	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]	1	[1,1]
Yes	2.999 ^{***}	[1.705,5.275]	2.917 ^{***}	[2.245,3.792]	3.169 ^{***}	[2.107,4.766]	2.865 ^{***}	[2.023,4.059]	2.240 ^{***}	[1.711,2.933]	2.237 ^{***}	[1.605,3.118]
Observations	538		538		538		538		538		538	

Exponentiated coefficients; 95% confidence intervals in brackets

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Associations are from results of Multiple Imputation with Chained Equations (MICE), imputing missing data for covariates (Exposure to stylish living activities and transactional sex at baseline) and subsequent behaviors for the 188 participants lost to follow up

§ Baseline behavior refers to the respective sexual risk behavior at the baseline visit (Visit 1)