

Supplementary Appendix

Contents:

Table 1: Selected variable codebook

Table 2: Predictors of male circumcision

Table 3: Predictors of female's partner circumcision

Table 4: Main paper table 2 (men) full regression results

Table 5: Main paper table 3 full regression results for all women

Table 6: Main paper table 3 full regression results for women with one lifetime partner

Table 7: Main paper Table 2 (men) false discovery rate correction

Table 8: Main paper Table 3 false discovery rate correction for all women

Table 9: Main paper Table 3 false discovery rate correction for women with one lifetime partner

Table 1: Selected variable codebook

variable name	values	description	comment
complete_secondary	0	incomplete secondary	
	1	complete secondary	
lowincome_dummy	0	> R6,000	
	1	<= R6,000	
	99	missing income data	
numpartners	1	1-2 lifetime partners	
	2	3-4 lifetime partners	
	3	5-9 lifetime partners	For 2 models (women all: GC and sphyilis), we collapsed the last 2 categories because there were no events for participants with 10 or more partners, so that partner category was 5+
	4	10+ lifetime partners	
	99	no response	
condom_always	0	did not always used a condom with most recent partner	
	1	always used a condom with most recent partner	
single	0	Legally married or Living together like husband and wife	
	1	other	
sexafterdrinking_dum	0	always or sometimes has sex after drinking	
	1	never has sex after drinking or does not drink	

Table 2: Predictors of male circumcision

variable	categories	distribution of variable for uncircumcised men	distribution of variable for circumcised men	p-value from chi-squared test	circumcised men are....
currentagegroup	15-19	6.9(136)	16.8(125)	<.0001	younger
	20-24	16.6(375)	34.5(297)		
	25-29	20.7(380)	20.3(162)		
	30-34	16.9(330)	13.2(98)		
	35-39	16.5(300)	8.2(74)		
	40-44	12.9(266)	4(39)		
	45-49	9.4(233)	3(35)		
marital status	Legally married or in a serious relationship	10.8(184)	6.3(52)	0.008	more likely to be single (probably because they are younger)
	Single	89.2(1836)	93.7(778)		
complete secondary education	no	58.9(1145)	38.6(311)	<.0001	more educated
	yes	41.1(874)	61.4(519)		
household income per month	<= R6000	84.8(1739)	79.3(668)	0.0009	wealthier (or come from bigger households which need more income - unfort we could not work out income oer capita in wave 1)
	> R6000	7.9(114)	13.9(93)		

	missing	7.3(167)	6.7(69)		
lifetime # partners	1-2 partner	25.5(492)	32.5(267)	0.0031	more likely to have fewer lifetime partners (probably because they are younger)
	2-4 partners	20.8(414)	24(188)		
	5-9 partners	24.4(430)	20.5(159)		
	10+ partners	16.1(300)	15(120)		
	missing	13.2(384)	8(96)		
always wore condom with recent partner	no	78.9(1618)	68.8(588)	<.0001	more likely to wear a condom
	yes	21.1(402)	31.2(242)		
how often do you have sex after drinking	Never	66.8(1349)	74.1(584)	0.0264	less likely to have sex after drinking (might also be because they are younger and have less access to alcohol)
	Always	1.8(33)	1.6(10)		
	Sometimes	31.5(638)	24.3(236)		

Table 3: Predictors of female's partner circumcision

variable	categories	distribution of variable for women with at least 1 reported uncircumcised partner	distribution of variable for women with only reported circumcised partners	p-value from chi-squared test	women with circumcised partners are....
currentagegroup	15-19	6.1(179)	15.8(195)	<.0001	younger
	20-24	17.3(532)	26.8(409)		
	25-29	19.6(582)	21.4(322)		
	30-34	17(493)	13.3(204)		
	35-39	15.7(473)	10(165)		
	40-44	12.8(422)	6.4(113)		
	45-49	11.5(437)	6.3(114)		
marital status	Legally married or in a serious relationship	19.2(535)	13.6(226)	0.0003	more likely to be single (probably because they are younger)
	Single	80.8(2583)	86.4(1296)		
complete secondary education	no	54.1(1715)	43.9(646)	<.0001	more educated
	yes	45.9(1402)	56.1(875)		
household income per month	<= R6000	85.7(2716)	79.2(1221)	<.0001	wealthier (or come from bigger households which need more income - unfort we could not work out income oer capita in wave 1)
	> R6000	7.7(175)	12.5(150)		
	missing	6.7(227)	8.3(151)		
lifetime # partners	1-2 partner	51.5(1461)	58.5(841)	0.0002	more likely to have fewer lifetime partners (probably because they are younger)

	2-4 partners	26.8(788)	26.8(383)		
	5-9 partners	10.5(316)	6.7(122)		
	10+ partners	0.9(35)	1(20)		
	missing	10.3(518)	7(156)		
always wore condom with recent partner	no	82.7(2616)	75.8(1138)	<.0001	more likely to wear a condom
	yes	17.3(502)	24.2(384)		
how often do you have sex after drinking	Never	95.4(2949)	95.6(1442)	0.0416	not very different in terms of drinking behaviour
	Always	0.2(6)	0.7(11)		
	Sometimes	4.4(163)	3.7(69)		

Table 4: Main paper table 2 (men) full regression results

STI	Effect	Odds Ratio Estimate	Lower 95% Confidence	Upper 95% Confidence	OR (95% CI)	p-value
CT_PCR	circumcised vs uncircumcised	1.561	1.002	2.431	1.56(1-2.43)	0.049
CT_PCR	complete_secondary 0 vs 1	0.581	0.383	0.882	0.58(0.38-0.88)	0.0111
CT_PCR	condom_always 0 vs 1	2.147	1.226	3.76	2.15(1.23-3.76)	0.0078
CT_PCR	CurrentAge	0.918	0.892	0.945	0.92(0.89-0.95)	<.0001
CT_PCR	lowincome_dummy 1 vs 0	1.092	0.505	2.362	1.09(0.51-2.36)	0.8217
CT_PCR	lowincome_dummy99 1 vs 0	2.127	0.81	5.583	2.13(0.81-5.58)	0.1249
CT_PCR	numpartner2 1 vs 0	1.193	0.635	2.241	1.19(0.64-2.24)	0.5815
CT_PCR	numpartner3 1 vs 0	1.367	0.722	2.589	1.37(0.72-2.59)	0.3351
CT_PCR	numpartner4 1 vs 0	1.083	0.564	2.081	1.08(0.56-2.08)	0.81
CT_PCR	numpartner99 1 vs 0	1.612	0.824	3.154	1.61(0.82-3.15)	0.1619
CT_PCR	sexafterdrinking_dum 0 vs 1	1.028	0.676	1.565	1.03(0.68-1.56)	0.8956
CT_PCR	single 0 vs 1	0.28	0.064	1.225	0.28(0.06-1.23)	0.0905
gc_pcr	circumcised vs uncircumcised	0.537	0.163	1.765	0.54(0.16-1.76)	0.3037
gc_pcr	complete_secondary 0 vs 1	0.562	0.285	1.107	0.56(0.29-1.11)	0.0953
gc_pcr	condom_always 0 vs 1	1.104	0.506	2.407	1.1(0.51-2.41)	0.8029
gc_pcr	CurrentAge	0.925	0.882	0.971	0.93(0.88-0.97)	0.0017
gc_pcr	lowincome_dummy 1 vs 0	1.869	0.505	6.912	1.87(0.51-6.91)	0.347
gc_pcr	lowincome_dummy99 1 vs 0	2.024	0.457	8.978	2.02(0.46-8.98)	0.3516
gc_pcr	numpartner2 1 vs 0	1.738	0.66	4.575	1.74(0.66-4.57)	0.2617
gc_pcr	numpartner3 1 vs 0	1.903	0.806	4.494	1.9(0.81-4.49)	0.1415
gc_pcr	numpartner4 1 vs 0	0.549	0.165	1.823	0.55(0.17-1.82)	0.3255
gc_pcr	numpartner99 1 vs 0	2.119	0.974	4.613	2.12(0.97-4.61)	0.0583
gc_pcr	sexafterdrinking_dum 0 vs 1	0.538	0.199	1.456	0.54(0.2-1.46)	0.221
gc_pcr	single 0 vs 1	0.469	0.052	4.266	0.47(0.05-4.27)	0.4996
hbsag	circumcised vs uncircumcised	0.53	0.297	0.945	0.53(0.3-0.95)	0.0317
hbsag	complete_secondary 0 vs 1	1.438	0.919	2.25	1.44(0.92-2.25)	0.111
hbsag	condom_always 0 vs 1	1.117	0.629	1.984	1.12(0.63-1.98)	0.7032
hbsag	CurrentAge	1.019	0.99	1.048	1.02(0.99-1.05)	0.1986
hbsag	lowincome_dummy 1 vs 0	0.567	0.253	1.268	0.57(0.25-1.27)	0.1659

hbsag	lowincome_dummy99 1 vs 0	0.517	0.159	1.684	0.52(0.16-1.68)	0.272
hbsag	numpartner2 1 vs 0	1.836	1.015	3.322	1.84(1.02-3.32)	0.0445
hbsag	numpartner3 1 vs 0	0.964	0.491	1.894	0.96(0.49-1.89)	0.915
hbsag	numpartner4 1 vs 0	1.428	0.717	2.847	1.43(0.72-2.85)	0.3096
hbsag	numpartner99 1 vs 0	2.295	1.119	4.708	2.3(1.12-4.71)	0.0237
hbsag	sexafterdrinking_dum 0 vs 1	0.78	0.484	1.258	0.78(0.48-1.26)	0.3073
hbsag	single 0 vs 1	0.986	0.451	2.159	0.99(0.45-2.16)	0.9726
hiv_fi	circumcised circumcised vs uncircumcised	0.495	0.38	0.646	0.5(0.38-0.65)	<.0001
hiv_fi	complete_secondary 0 vs 1	1.45	1.155	1.821	1.45(1.16-1.82)	0.0015
hiv_fi	condom_always 0 vs 1	0.729	0.553	0.962	0.73(0.55-0.96)	0.0254
hiv_fi	CurrentAge	1.086	1.069	1.102	1.09(1.07-1.1)	<.0001
hiv_fi	lowincome_dummy 1 vs 0	1.194	0.803	1.777	1.19(0.8-1.78)	0.3789
hiv_fi	lowincome_dummy99 1 vs 0	1.158	0.696	1.926	1.16(0.7-1.93)	0.5699
hiv_fi	numpartner2 1 vs 0	0.948	0.666	1.35	0.95(0.67-1.35)	0.7664
hiv_fi	numpartner3 1 vs 0	1.247	0.887	1.751	1.25(0.89-1.75)	0.2027
hiv_fi	numpartner4 1 vs 0	1.835	1.26	2.672	1.84(1.26-2.67)	0.0017
hiv_fi	numpartner99 1 vs 0	0.992	0.675	1.458	0.99(0.68-1.46)	0.9691
hiv_fi	sexafterdrinking_dum 0 vs 1	1.014	0.789	1.302	1.01(0.79-1.3)	0.9156
hiv_fi	single 0 vs 1	0.729	0.47	1.13	0.73(0.47-1.13)	0.1566
HSV2	circumcised circumcised vs uncircumcised	0.655	0.498	0.861	0.66(0.5-0.86)	0.0026
HSV2	complete_secondary 0 vs 1	1.169	0.938	1.458	1.17(0.94-1.46)	0.1643
HSV2	condom_always 0 vs 1	1.076	0.818	1.416	1.08(0.82-1.42)	0.5971
HSV2	CurrentAge	1.126	1.105	1.146	1.13(1.11-1.15)	<.0001
HSV2	lowincome_dummy 1 vs 0	1.108	0.775	1.586	1.11(0.77-1.59)	0.5714
HSV2	lowincome_dummy99 1 vs 0	1.511	0.889	2.57	1.51(0.89-2.57)	0.1267
HSV2	numpartner2 1 vs 0	0.94	0.672	1.317	0.94(0.67-1.32)	0.7195
HSV2	numpartner3 1 vs 0	1.28	0.92	1.783	1.28(0.92-1.78)	0.1426
HSV2	numpartner4 1 vs 0	1.552	1.077	2.237	1.55(1.08-2.24)	0.0186
HSV2	numpartner99 1 vs 0	0.847	0.58	1.237	0.85(0.58-1.24)	0.3879
HSV2	sexafterdrinking_dum 0 vs 1	0.854	0.66	1.105	0.85(0.66-1.11)	0.2295

HSV2	single 0 vs 1	1.367	0.767	2.436	1.37(0.77-2.44)	0.287
MG_PCR	circumcised circumcised vs uncircumcised	0.532	0.32	0.885	0.53(0.32-0.88)	0.0153
MG_PCR	complete_secondary 0 vs 1	1.042	0.683	1.589	1.04(0.68-1.59)	0.8483
MG_PCR	condom_always 0 vs 1	1.331	0.849	2.084	1.33(0.85-2.08)	0.2112
MG_PCR	CurrentAge	0.993	0.976	1.011	0.99(0.98-1.01)	0.4608
MG_PCR	lowincome_dummy 1 vs 0	3.462	0.839	14.289	3.46(0.84-14.29)	0.0856
MG_PCR	lowincome_dummy99 1 vs 0	3.506	0.818	15.038	3.51(0.82-15.04)	0.0909
MG_PCR	numpartner2 1 vs 0	1.44	0.731	2.837	1.44(0.73-2.84)	0.2902
MG_PCR	numpartner3 1 vs 0	0.997	0.494	2.015	1(0.49-2.01)	0.9937
MG_PCR	numpartner4 1 vs 0	1.909	0.98	3.717	1.91(0.98-3.72)	0.0572
MG_PCR	numpartner99 1 vs 0	1.226	0.651	2.309	1.23(0.65-2.31)	0.527
MG_PCR	sexafterdrinking_dum 0 vs 1	0.865	0.568	1.318	0.87(0.57-1.32)	0.4991
MG_PCR	single 0 vs 1	0.465	0.173	1.25	0.47(0.17-1.25)	0.1285
syphil	circumcised circumcised vs uncircumcised	0.649	0.296	1.422	0.65(0.3-1.42)	0.2782
syphil	complete_secondary 0 vs 1	1.262	0.643	2.477	1.26(0.64-2.48)	0.4977
syphil	condom_always 0 vs 1	2.094	0.673	6.518	2.09(0.67-6.52)	0.2008
syphil	CurrentAge	0.99	0.959	1.023	0.99(0.96-1.02)	0.5494
syphil	lowincome_dummy 1 vs 0	0.629	0.187	2.119	0.63(0.19-2.12)	0.4527
syphil	lowincome_dummy99 1 vs 0	0.339	0.067	1.722	0.34(0.07-1.72)	0.1908
syphil	numpartner2 1 vs 0	1.108	0.325	3.779	1.11(0.32-3.78)	0.8693
syphil	numpartner3 1 vs 0	1.763	0.469	6.628	1.76(0.47-6.63)	0.3998
syphil	numpartner4 1 vs 0	2.323	0.742	7.275	2.32(0.74-7.27)	0.1471
syphil	numpartner99 1 vs 0	1.045	0.239	4.564	1.05(0.24-4.56)	0.9529
syphil	sexafterdrinking_dum 0 vs 1	1.053	0.48	2.307	1.05(0.48-2.31)	0.8973
syphil	single 0 vs 1	0.761	0.127	4.571	0.76(0.13-4.57)	0.7644
TV_PCR	circumcised circumcised vs uncircumcised	0.828	0.42	1.634	0.83(0.42-1.63)	0.5848
TV_PCR	complete_secondary 0 vs 1	2.28	1.351	3.85	2.28(1.35-3.85)	0.0022
TV_PCR	condom_always 0 vs 1	0.65	0.36	1.172	0.65(0.36-1.17)	0.1511
TV_PCR	CurrentAge	1.061	1.035	1.087	1.06(1.03-1.09)	<.0001
TV_PCR	lowincome_dummy 1 vs 0	4.305	0.967	19.17	4.3(0.97-19.17)	0.0554

TV_PCR	lowincome_dummy99 1 vs 0	5.853	1.152	29.732	5.85(1.15-29.73)	0.0333
TV_PCR	numpartner2 1 vs 0	0.963	0.445	2.082	0.96(0.45-2.08)	0.9233
TV_PCR	numpartner3 1 vs 0	1.472	0.707	3.061	1.47(0.71-3.06)	0.2996
TV_PCR	numpartner4 1 vs 0	0.852	0.324	2.242	0.85(0.32-2.24)	0.745
TV_PCR	numpartner99 1 vs 0	2.443	1.178	5.065	2.44(1.18-5.06)	0.0166
TV_PCR	sexafterdrinking_dum 0 vs 1	1.115	0.696	1.788	1.12(0.7-1.79)	0.6491
TV_PCR	single 0 vs 1	0.339	0.159	0.719	0.34(0.16-0.72)	0.005

Table 5: Main paper table 3 full regression results for all women

STI	Effect	Odds Ratio Estimate	Lower 95% Confidence	Upper 95% Confidence	OR (95% CI)	p-value
CT_PCR	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.126	0.86	1.475	1.13(0.86-1.47)	0.3872
CT_PCR	complete_secondary 0 vs 1	1.02	0.782	1.33	1.02(0.78-1.33)	0.884
CT_PCR	condom_always 0 vs 1	1.009	0.686	1.484	1.01(0.69-1.48)	0.9645
CT_PCR	CurrentAge	0.914	0.896	0.932	0.91(0.9-0.93)	<.0001
CT_PCR	lowincome_dummy 1 vs 0	1.062	0.59	1.912	1.06(0.59-1.91)	0.8392
CT_PCR	lowincome_dummy99 1 vs 0	1.532	0.813	2.887	1.53(0.81-2.89)	0.1855
CT_PCR	numpartner2 1 vs 0	1.062	0.797	1.415	1.06(0.8-1.41)	0.682
CT_PCR	numpartner3 1 vs 0	1.137	0.643	2.01	1.14(0.64-2.01)	0.6577
CT_PCR	numpartner4 1 vs 0	0.899	0.239	3.377	0.9(0.24-3.38)	0.8744
CT_PCR	numpartner99 1 vs 0	0.848	0.559	1.287	0.85(0.56-1.29)	0.4365
CT_PCR	sexafterdrinking_dum 0 vs 1	0.779	0.454	1.338	0.78(0.45-1.34)	0.3636
CT_PCR	single 0 vs 1	0.369	0.213	0.639	0.37(0.21-0.64)	0.0004
gc_pcr	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.039	0.631	1.711	1.04(0.63-1.71)	0.8787
gc_pcr	complete_secondary 0 vs 1	0.791	0.498	1.257	0.79(0.5-1.26)	0.3202
gc_pcr	condom_always 0 vs 1	0.7	0.431	1.135	0.7(0.43-1.14)	0.1473
gc_pcr	CurrentAge	0.945	0.92	0.971	0.95(0.92-0.97)	<.0001
gc_pcr	lowincome_dummy 1 vs 0	3.021	1.149	7.943	3.02(1.15-7.94)	0.0252
gc_pcr	lowincome_dummy99 1 vs 0	2.723	0.865	8.571	2.72(0.87-8.57)	0.0865
gc_pcr	numpartner_new2 1 vs 0	1.16	0.699	1.925	1.16(0.7-1.93)	0.5635
gc_pcr	numpartner_new3 1 vs 0	1.627	0.879	3.01	1.63(0.88-3.01)	0.1204
gc_pcr	numpartner_new99 1 vs 0	1.257	0.707	2.236	1.26(0.71-2.24)	0.4343
gc_pcr	sexafterdrinking_dum 0 vs 1	0.659	0.355	1.22	0.66(0.36-1.22)	0.1834
gc_pcr	single 0 vs 1	0.5	0.175	1.428	0.5(0.17-1.43)	0.1943
hbsag	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.257	0.78	2.024	1.26(0.78-2.02)	0.3455

hbsag	complete_secondary 0 vs 1	1.294	0.876	1.911	1.29(0.88-1.91)	0.1947
hbsag	condom_always 0 vs 1	1.076	0.574	2.019	1.08(0.57-2.02)	0.8181
hbsag	CurrentAge	0.996	0.973	1.019	1(0.97-1.02)	0.727
hbsag	lowincome_dummy 1 vs 0	1.081	0.433	2.701	1.08(0.43-2.7)	0.867
hbsag	lowincome_dummy99 1 vs 0	0.912	0.276	3.01	0.91(0.28-3.01)	0.8787
hbsag	numpartner2 1 vs 0	0.958	0.612	1.498	0.96(0.61-1.5)	0.8491
hbsag	numpartner3 1 vs 0	2.071	1.181	3.633	2.07(1.18-3.63)	0.0113
hbsag	numpartner4 1 vs 0	1.939	0.493	7.622	1.94(0.49-7.62)	0.3412
hbsag	numpartner99 1 vs 0	1.551	0.821	2.93	1.55(0.82-2.93)	0.1757
hbsag	sexafterdrinking_dum 0 vs 1	0.75	0.373	1.508	0.75(0.37-1.51)	0.418
hbsag	single 0 vs 1	0.922	0.484	1.755	0.92(0.48-1.76)	0.8031
hiv_fi	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	0.666	0.547	0.812	0.67(0.55-0.81)	<.0001
hiv_fi	complete_secondary 0 vs 1	1.213	1.039	1.416	1.21(1.04-1.42)	0.0148
hiv_fi	condom_always 0 vs 1	0.491	0.399	0.604	0.49(0.4-0.6)	<.0001
hiv_fi	CurrentAge	1.05	1.041	1.059	1.05(1.04-1.06)	<.0001
hiv_fi	lowincome_dummy 1 vs 0	1.253	0.89	1.763	1.25(0.89-1.76)	0.1944
hiv_fi	lowincome_dummy99 1 vs 0	1.037	0.663	1.621	1.04(0.66-1.62)	0.8729
hiv_fi	numpartner2 1 vs 0	1.834	1.487	2.262	1.83(1.49-2.26)	<.0001
hiv_fi	numpartner3 1 vs 0	2.647	1.95	3.594	2.65(1.95-3.59)	<.0001
hiv_fi	numpartner4 1 vs 0	4.452	1.819	10.897	4.45(1.82-10.9)	0.0012
hiv_fi	numpartner99 1 vs 0	1.692	1.317	2.173	1.69(1.32-2.17)	<.0001
hiv_fi	sexafterdrinking_dum 0 vs 1	0.656	0.461	0.935	0.66(0.46-0.93)	0.0198
hiv_fi	single 0 vs 1	0.394	0.307	0.506	0.39(0.31-0.51)	<.0001
HSV2	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	0.708	0.597	0.839	0.71(0.6-0.84)	<.0001
HSV2	complete_secondary 0 vs 1	1.598	1.256	2.034	1.6(1.26-2.03)	0.0002
HSV2	condom_always 0 vs 1	0.808	0.626	1.043	0.81(0.63-1.04)	0.1007
HSV2	CurrentAge	1.11	1.094	1.126	1.11(1.09-1.13)	<.0001
HSV2	lowincome_dummy 1 vs 0	1.413	0.91	2.195	1.41(0.91-2.19)	0.123
HSV2	lowincome_dummy99 1 vs 0	1.857	1.039	3.317	1.86(1.04-3.32)	0.0368

HSV2	numpartner2 1 vs 0	1.916	1.458	2.518	1.92(1.46-2.52)	<.0001
HSV2	numpartner3 1 vs 0	3.084	1.901	5.003	3.08(1.9-5)	<.0001
HSV2	numpartner4 1 vs 0	2.028	0.579	7.102	2.03(0.58-7.1)	0.2673
HSV2	numpartner99 1 vs 0	1.378	1.029	1.846	1.38(1.03-1.85)	0.0315
HSV2	sexafterdrinking_dum 0 vs 1	0.728	0.411	1.291	0.73(0.41-1.29)	0.2757
HSV2	single 0 vs 1	0.632	0.47	0.848	0.63(0.47-0.85)	0.0024
MG_PCR	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.024	0.703	1.491	1.02(0.7-1.49)	0.9024
MG_PCR	complete_secondary 0 vs 1	1.296	0.907	1.85	1.3(0.91-1.85)	0.1534
MG_PCR	condom_always 0 vs 1	1.058	0.722	1.55	1.06(0.72-1.55)	0.771
MG_PCR	CurrentAge	0.937	0.914	0.961	0.94(0.91-0.96)	<.0001
MG_PCR	lowincome_dummy 1 vs 0	1.74	0.92	3.292	1.74(0.92-3.29)	0.0881
MG_PCR	lowincome_dummy99 1 vs 0	1.539	0.659	3.592	1.54(0.66-3.59)	0.3175
MG_PCR	numpartner2 1 vs 0	1.158	0.798	1.679	1.16(0.8-1.68)	0.4388
MG_PCR	numpartner3 1 vs 0	1.19	0.679	2.086	1.19(0.68-2.09)	0.5427
MG_PCR	numpartner4 1 vs 0	0.846	0.218	3.283	0.85(0.22-3.28)	0.8084
MG_PCR	numpartner99 1 vs 0	1.123	0.644	1.957	1.12(0.64-1.96)	0.6815
MG_PCR	sexafterdrinking_dum 0 vs 1	0.768	0.405	1.456	0.77(0.41-1.46)	0.4173
MG_PCR	single 0 vs 1	0.968	0.494	1.898	0.97(0.49-1.9)	0.925
syphil	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	0.744	0.404	1.368	0.74(0.4-1.37)	0.3395
syphil	complete_secondary 0 vs 1	1.441	0.841	2.469	1.44(0.84-2.47)	0.182
syphil	condom_always 0 vs 1	0.966	0.556	1.68	0.97(0.56-1.68)	0.9032
syphil	CurrentAge	0.961	0.937	0.986	0.96(0.94-0.99)	0.0026
syphil	lowincome_dummy 1 vs 0	3.952	0.757	20.644	3.95(0.76-20.64)	0.1027
syphil	lowincome_dummy99 1 vs 0	2.795	0.4	19.511	2.79(0.4-19.51)	0.2984
syphil	numpartner_new2 1 vs 0	1.266	0.741	2.164	1.27(0.74-2.16)	0.3859
syphil	numpartner_new3 1 vs 0	1.323	0.579	3.022	1.32(0.58-3.02)	0.5048
syphil	numpartner_new99 1 vs 0	0.569	0.234	1.383	0.57(0.23-1.38)	0.2125
syphil	sexafterdrinking_dum 0 vs 1	1.164	0.489	2.772	1.16(0.49-2.77)	0.7304
syphil	single 0 vs 1	0.599	0.261	1.372	0.6(0.26-1.37)	0.2239

TV_PCR	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.086	0.866	1.363	1.09(0.87-1.36)	0.4718
TV_PCR	complete_secondary 0 vs 1	1.455	1.142	1.854	1.46(1.14-1.85)	0.0025
TV_PCR	condom_always 0 vs 1	0.878	0.677	1.138	0.88(0.68-1.14)	0.3241
TV_PCR	CurrentAge	1.012	0.999	1.026	1.01(1-1.03)	0.0681
TV_PCR	lowincome_dummy 1 vs 0	2.43	1.442	4.096	2.43(1.44-4.1)	0.0009
TV_PCR	lowincome_dummy99 1 vs 0	2.301	1.124	4.711	2.3(1.12-4.71)	0.0229
TV_PCR	numpartner2 1 vs 0	1.063	0.78	1.448	1.06(0.78-1.45)	0.6974
TV_PCR	numpartner3 1 vs 0	1.254	0.866	1.815	1.25(0.87-1.82)	0.2288
TV_PCR	numpartner4 1 vs 0	1.078	0.413	2.812	1.08(0.41-2.81)	0.877
TV_PCR	numpartner99 1 vs 0	1.699	1.243	2.323	1.7(1.24-2.32)	0.001
TV_PCR	sexafterdrinking_dum 0 vs 1	0.462	0.297	0.717	0.46(0.3-0.72)	0.0006
TV_PCR	single 0 vs 1	0.797	0.606	1.047	0.8(0.61-1.05)	0.1024

Table 6: Main paper table 3 full regression results for women with one lifetime partner

STI	Effect	Odds Ratio Estimate	Lower 95% Confidence	Upper 95% Confidence	OR (95% CI)	p-value
Chlamydia	Age_diff_cat age-disparate vs age-similar	1.283	0.766	2.148	1.28(0.77-2.15)	0.3415
Chlamydia	circumcised_recentpa circumcised vs uncircumcised	1.126	0.664	1.909	1.13(0.66-1.91)	0.6583
Chlamydia	complete_secondary 0 vs 1	0.989	0.591	1.656	0.99(0.59-1.66)	0.966
Chlamydia	condom_always 0 vs 1	1.174	0.548	2.515	1.17(0.55-2.52)	0.6776
Chlamydia	CurrentAge	0.881	0.846	0.918	0.88(0.85-0.92)	<.0001
Chlamydia	lowincome_dummy 1 vs 0	1.276	0.427	3.811	1.28(0.43-3.81)	0.6614
Chlamydia	lowincome_dummy99 1 vs 0	1.784	0.533	5.977	1.78(0.53-5.98)	0.3462
Chlamydia	sexafterdrinking_dum 0 vs 1	0.461	0.161	1.322	0.46(0.16-1.32)	0.1488
Chlamydia	single 0 vs 1	0.721	0.299	1.74	0.72(0.3-1.74)	0.4648
gc_pcr	circumcised_recentpa circumcised vs uncircumcised	1.345	0.49	3.693	1.34(0.49-3.69)	0.564
gc_pcr	CurrentAge	0.947	0.889	1.009	0.95(0.89-1.01)	0.0923
hbsag	circumcised_recentpa circumcised vs uncircumcised	2.068	0.589	7.269	2.07(0.59-7.27)	0.2556
hbsag	CurrentAge	1.034	0.991	1.078	1.03(0.99-1.08)	0.1235
HIV	Age_diff_cat age-disparate vs age-similar	1.544	1.128	2.113	1.54(1.13-2.11)	0.007
HIV	circumcised_recentpa circumcised vs uncircumcised	0.659	0.485	0.895	0.66(0.49-0.9)	0.0078
HIV	complete_secondary 0 vs 1	1.386	1.007	1.907	1.39(1.01-1.91)	0.0451
HIV	condom_always 0 vs 1	0.517	0.334	0.801	0.52(0.33-0.8)	0.0033
HIV	CurrentAge	1.053	1.032	1.074	1.05(1.03-1.07)	<.0001
HIV	lowincome_dummy 1 vs 0	1.033	0.516	2.068	1.03(0.52-2.07)	0.9257
HIV	lowincome_dummy99 1 vs 0	1.45	0.598	3.515	1.45(0.6-3.51)	0.4089
HIV	sexafterdrinking_dum 0 vs 1	0.876	0.425	1.807	0.88(0.43-1.81)	0.7198
HIV	single 0 vs 1	0.401	0.241	0.665	0.4(0.24-0.66)	0.0005

HSV-2	Age_diff_cat age-disparate vs age-similar	1.288	0.916	1.812	1.29(0.92-1.81)	0.1441
HSV-2	circumcised_recentpa circumcised vs uncircumcised	0.712	0.531	0.954	0.71(0.53-0.95)	0.0232
HSV-2	complete_secondary 0 vs 1	1.615	1.123	2.323	1.62(1.12-2.32)	0.01
HSV-2	condom_always 0 vs 1	1.172	0.777	1.767	1.17(0.78-1.77)	0.4468
HSV-2	CurrentAge	1.093	1.068	1.118	1.09(1.07-1.12)	<.0001
HSV-2	lowincome_dummy 1 vs 0	1.709	0.855	3.413	1.71(0.86-3.41)	0.1285
HSV-2	lowincome_dummy99 1 vs 0	3.316	1.457	7.545	3.32(1.46-7.54)	0.0045
HSV-2	sexafterdrinking_dum 0 vs 1	0.612	0.208	1.803	0.61(0.21-1.8)	0.3715
HSV-2	single 0 vs 1	0.593	0.37	0.95	0.59(0.37-0.95)	0.03
MG_PCR	Age_diff_cat age-disparate vs age-similar	1.057	0.56	1.992	1.06(0.56-1.99)	0.8645
MG_PCR	circumcised_recentpa circumcised vs uncircumcised	0.933	0.454	1.917	0.93(0.45-1.92)	0.8489
MG_PCR	complete_secondary 0 vs 1	2.344	1.224	4.49	2.34(1.22-4.49)	0.0105
MG_PCR	condom_always 0 vs 1	1.029	0.458	2.31	1.03(0.46-2.31)	0.9446
MG_PCR	CurrentAge	0.912	0.866	0.961	0.91(0.87-0.96)	0.0006
MG_PCR	lowincome_dummy 1 vs 0	1.302	0.331	5.118	1.3(0.33-5.12)	0.7044
MG_PCR	lowincome_dummy99 1 vs 0	0.157	0.022	1.132	0.16(0.02-1.13)	0.066
MG_PCR	sexafterdrinking_dum 0 vs 1	0.31	0.091	1.051	0.31(0.09-1.05)	0.0601
MG_PCR	single 0 vs 1	1.814	0.569	5.79	1.81(0.57-5.79)	0.3126
syphil	circumcised_recentpa circumcised vs uncircumcised	0.653	0.161	2.648	0.65(0.16-2.65)	0.5487
syphil	CurrentAge	0.933	0.887	0.981	0.93(0.89-0.98)	0.0071
TVaginalis	Age_diff_cat age-disparate vs age-similar	1.124	0.706	1.788	1.12(0.71-1.79)	0.6217
TVaginalis	circumcised_recentpa circumcised vs uncircumcised	0.974	0.642	1.477	0.97(0.64-1.48)	0.9003
TVaginalis	complete_secondary 0 vs 1	1.499	1.031	2.18	1.5(1.03-2.18)	0.034
TVaginalis	condom_always 0 vs 1	0.879	0.499	1.549	0.88(0.5-1.55)	0.6543
TVaginalis	CurrentAge	1.008	0.984	1.033	1.01(0.98-1.03)	0.5235

TVaginalis	lowincome_dummy 1 vs 0	1.86	0.668	5.179	1.86(0.67-5.18)	0.2336
TVaginalis	lowincome_dummy99 1 vs 0	2.831	0.833	9.617	2.83(0.83-9.62)	0.0949
TVaginalis	sexafterdrinking_dum 0 vs 1	0.506	0.125	2.044	0.51(0.13-2.04)	0.3369
TVaginalis	single 0 vs 1	0.902	0.53	1.534	0.9(0.53-1.53)	0.7011

Table 7: Main paper Table 2 (men) false discovery rate correction

STI	Effect	OR (95% CI)	p value	adjusted p-value
CT_PCR	circumcised circumcised vs uncircumcised	1.56(1-2.43)	0.049	0.2131
gc_pcr	circumcised circumcised vs uncircumcised	0.54(0.16-1.76)	0.3037	0.9433
hbsag	circumcised circumcised vs uncircumcised	0.53(0.3-0.95)	0.0317	0.1723
hiv_fi	circumcised circumcised vs uncircumcised	0.5(0.38-0.65)	<.0001	0.0022
HSV2	circumcised circumcised vs uncircumcised	0.66(0.5-0.86)	0.0026	0.0283
MG_PCR	circumcised circumcised vs uncircumcised	0.53(0.32-0.88)	0.0153	0.1109
syphil	circumcised circumcised vs uncircumcised	0.65(0.3-1.42)	0.2782	0.9433
TV_PCR	circumcised circumcised vs uncircumcised	0.83(0.42-1.63)	0.5848	1

Table 8: Main paper Table 3 false discovery rate correction for all women

STI	Effect	OR (95% CI)	p value	adjusted p-value
CT_PCR	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.13(0.86-1.47)	0.3872	1
gc_pcr	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.04(0.63-1.71)	0.8787	1
hbsag	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.26(0.78-2.02)	0.3455	1
hiv_fi	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	0.67(0.55-0.81)	<.0001	0.0011
HSV2	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	0.71(0.6-0.84)	<.0001	0.0011
MG_PCR	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.02(0.7-1.49)	0.9024	1
syphil	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	0.74(0.4-1.37)	0.3395	1
TV_PCR	circumcised_All all reported partners circumcised vs any reported partner uncircumcised	1.09(0.87-1.36)	0.4718	1

Table 9: Main paper Table 3 false discovery rate correction for women with one lifetime partner

STI	Effect	OR (95% CI)	p value	adjusted p-value
Chlamydia	circumcised_recentpa circumcised vs uncircumcised	1.13(0.66-1.91)	0.6583	1
gc_pcr	circumcised_recentpa circumcised vs uncircumcised	1.34(0.49-3.69)	0.564	1
hbsag	circumcised_recentpa circumcised vs uncircumcised	2.07(0.59-7.27)	0.2556	1
HIV	circumcised_recentpa circumcised vs uncircumcised	0.66(0.49-0.9)	0.0078	0.1696
HSV-2	circumcised_recentpa circumcised vs uncircumcised	0.71(0.53-0.95)	0.0232	0.2522
MG_PCR	circumcised_recentpa circumcised vs uncircumcised	0.93(0.45-1.92)	0.8489	1
syphil	circumcised_recentpa circumcised vs uncircumcised	0.65(0.16-2.65)	0.5487	1
TVaginalis	circumcised_recentpa circumcised vs uncircumcised	0.97(0.64-1.48)	0.9003	1