

**Supplementary Table 1. Participant characteristics, by baseline serostatus (any HPV type), among men in the HIM Study (Tampa, FL, Cuernavaca, MX, and São Paulo, BZ)**

	Baseline serum		P-value <sup>c</sup>
	antibody level		
	Seronegative <sup>a</sup> (n=1132)	Seropositive <sup>b</sup> (n=486)	
Country			<0.0001
USA	460 (40.6%)	102 (21.0%)	
Brazil	319 (28.2%)	180 (37.0%)	
Mexico	353 (31.2%)	204 (42.0%)	
Age (years)			<0.0001
18–30	579 (51.1%)	176 (36.2%)	
31–44	385 (34.0%)	204 (42.0%)	
45–73	168 (14.8%)	106 (21.8%)	
Marital status			0.001
Single	518 (45.8%)	177 (36.4%)	
Married or cohabiting	510 (45.1%)	264 (54.3%)	
Divorced, separated, or widowed	100 (8.8%)	44 (9.1%)	
Missing data	4 (0.4%)	1 (0.2%)	
Education (years)			<0.0001
≤12	472 (41.7%)	252 (51.9%)	
13–15	348 (30.7%)	107 (22.0%)	
≥16	307 (27.1%)	124 (25.5%)	
Missing data	5 (0.4%)	3 (0.6%)	
Smoking status			0.235
Never	679 (60.0%)	277 (57.0%)	
Former	197 (17.4%)	102 (21.0%)	
Current	251 (22.2%)	107 (22.0%)	
Missing data	5 (0.4%)	0 (0%)	

Sexual orientation			<0.0001
MSW	1009 (89.1%)	376 (77.4%)	
MSM	21 (1.9%)	33 (6.8%)	
MSWM	39 (3.4%)	53 (10.9%)	
Missing data	63 (5.6%)	24 (4.9%)	
Lifetime number of sexual partners			0.003
0–2	254 (22.4%)	93 (19.1%)	
3–7	336 (29.7%)	112 (23.0%)	
8–19	281 (24.8%)	130 (26.7%)	
≥20	254 (22.4%)	143 (29.4%)	
Missing data	7 (0.6%)	8 (1.6%)	
Ever had oral sex with a man			<0.0001
No	933 (82.4%)	353 (72.6%)	
Yes	114 (10.1%)	107 (22.0%)	
Missing data	85 (7.5%)	26 (5.3%)	

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Data are n (%). The variables listed have been associated with oral HPV incidence, oral HPV persistence, and HPV seropositivity in prior *HIM Study* publications.

MSW=men who have sex with women. MSM=men who have sex with men. MSWM=men who have sex with women and men.

<sup>a</sup>Men seronegative for all four HPV types (6/11/16/18).

<sup>b</sup>Men seropositive for at least one HPV type (6/11/16/18).

<sup>c</sup>Exact Pearson Chi-square P-value using Monte Carlo estimation.