

Table S1. Primers and probes for real-time PCR.

HPV Type	Mix	Oligo Type	Oligo Sequence
16	1	F	TTGCAGATCATCAAGAACACGTAGA
		R	CAGTAGAGATCAGTTGTCTCTGGTTGC
		P	5'-FAM-AATCATGCATGGAGATACACCTACATTGCATGA
6	2	F	RCGGTTYATAAAGCTAAATTGTACGT
		R	AGGGTAACATGTCTTCCATGCA
		P	5'-VIC-AAGGGTCGCTGCCTACACTGCTGG
58	2	F	GGCATGTGGATTAAACAAAAGGT
		R	TCTCATGGCGTTGTTACAGGTTAC
		P	5'-FAM-CACTGCACAGCGCCCTGTCCAA
11	3	F	GCTTCATAAAACTAAATAACCAGTGGA
		R	GTCAGGAGGCTGCAGGTCTAGTA
		P	5'-FAM-TCCAGCAGTGTAAGCAACGACCCTTCC
18	3	F	AGAGGCCAGTGCCATTTCGT
		R	GGTCTCTGCGTCGTTGGAGT
		P	5'-VIC-TCCTGTCGTGCTCGGTTGCAGC*
31	4	F	ATTCCACAACATAGGAGGAAGGTG
		R	CACTTGGGTTTCAGTACGAGGTCT
		P	5'-VIC-CTCCAACATGCTATGCAACGTCCTGTC
51	4	F	AAAGCAAAAATTGGTGGACGA
		R	TGCCAGCAATTAGCGCATT
		P	5'-FAM-CATGAAATAGCGGGACGTTGGACG
33	5	F	ATATTTCTGGGTCGTTGGGCA
		R	ACGTCACAGTGCAGTTTCTCTACGT
		P	5'-VIC-GGACCTCCAACACGCCGCACA*
35	5	F	TCGGTGTATGTCCTGTTGGAAAC
		R	CATAGTCTTGCAATGTAGTTATTTCTCCA
		P	5'-FAM-TGCATGATTACACCTCGGTTTCTCTACGTG
39	6	F	GCAGGAAGCTATACAGGACAGTGTC
		R	CTTGGGTTTCTCTTCGTGTTAGTCT
		P	5'-FAM-CCCGTTTTGTGGTCCAGCACCG*
52	6	F	GACATGTTAATGCAAACAAGCGAT
		R	CATGACGTTACACTTGGGTCACA
		P	5'-VIC-TGTTTCAGAGTGTTGGAGACCCCGACC
45	7	F	GGACAGTACCGAGGGCAGTGTA
		R	TCCCTACGTCTGCGAAGTCTTTC
		P	5'-VIC-CATGTTGTGACCAGGCACGGCA
56	7	F	GGCATGTGGATTAAACAAAAGGT
		R	TCTCATGGCGTTGTTACAGGTTAC
		P	5'-FAM-CACTGCACAGCGCCCTGTCCAA
59	8	F	TGTATGGAGAAACATTAGAGGCTGAA
		R	TGGACATAGAGGTTTTAGGCATCTATAA
		P	5'-FAM-AGACACCGTTACATGAGCTGCTGATACGC
Beta-globin	8	F	GCTCATGGCAAGAAAGTGCTC
		R	GCAAAGGTGCCCTTGAGGT
		P	5'-VIC-AGTGATGGCCTGGCTCACCTGGAC

F=forward primer; R=reverse primer; P=probe; *, antisense.

Table S2. HPV infections in mucous membranes of HIV+ couples.

Couple number	Patient no	Oral HPV		Oropharynx HPV		Anal HPV		Genital HPV			
		Female	Male	Female	Male	Female	Male	Cervix	Vagina-sc	Vagina-pc	Penis
1	1-2	0	0	0	59	0	0	0	0	0	59
2	3-4	0	0	0	0	0	0	0	52	52	0
3	5-6	0	0	0	59	0	0	0	0	0	18
4	7-8	0	0	0	0	0	0	0	0	0	0
5	9-10	0	0	0	0	0	0	0	0	51	0
6	11-12	0	0	0	31/51	0	0	0	0	0	0
7	13-14	0	0	0	0	0	0	0	0	0	0
8	15-16	0	0	0	0	0	0	0	0	0	0
9	17-18	0	0	0	0	0	0	0	0	0	0
10	19-20	0	0	0	0	0	11	0	0	0	56
11	21-22	0	0	0	0	0	0	0	0	0	0
12	23-24	0	0	0	0	0	0	0	0	0	0
13	25-26	0	0	0	0	0	0	0	0	0	0
14	27-28	16	0	0	0	18	0	0	18	0	0
15	29-30	16	16	0	0	35	0	16	16	16	0
16	31-32	16	16	0	16	0	0	52	0	0	0
17	33-34	16	16	0	0	0	0	0	0	0	0
18	35-36	16	16	0	0	0	0	0	0	0	0
19	37-38	0	0	0	0	51	0	0	0	0	0
20	39-40	0	0	0	0	58	0	58	58	58	0
21	41-42	0	0	0	0	0	0	0	0	0	0
22	43-44	0	0	0	0	33	0	0	0	0	0
23	45-46	0	0	0	0	35	0	35	35	35	0
24	47-48	52	0	0	0	0	0	0	52	0	0
25	49-50	0	0	0	0	0	0	0	0	0	0
26	51-52	0	0	0	0	0	0	0	0	0	45/58
27	53-54	0	0	0	0	0	0	0	0	16	18
28	55-56	0	0	0	0	0	16	6/16	0	6/16	6/16
29	57-58	0	0	0	0	16	0	16	16	16	0
30	59-60	0	0	0	0	0	0	16	16	0	0
31	61-62	0	0	0	0	0	0	0	0	0	0
32	63-64	0	0	0	0	0	0	0	0	0	0
33	65-66	0	0	0	0	16	0	16	6/16	16	0

34	67-68	0	0	0	0	6/39	0	6/39/5	6/39/5	6/39/5	39/45
35	69-70	0	0	0	0	0	0	0	0	0	0
36	71-72	0	0	0	0	0	0	0	0	0	45
37	73-74	0	0	0	0	45	0	0	51/56	51/56	0
38	75-76	0	0	0	0	0	0	0	16	16	0
39	77-78	0	0	0	0	0	0	0	0	0	0
40	79-80	0	0	0	0	0	0	11	39	0	11
41	81-82	0	0	0	0	0	0	0	0	0	0
42	83-84	0	0	0	0	0	0	0	0	0	0
43	85-86	0	0	0	0	0	0	0	0	0	0
44	87-88	0	0	0	0	0	0	0	0	0	18
45	89-90	0	0	0	0	0	0	0	0	0	18/59
46	91-92	0	0	0	0	0	0	0	52	52	0
47	93-94	0	0	0	0	56	0	56	56	56	16/31/5 2
48	95-96	0	16/31/5	0	16/31/5	35	0	35	35	35	31/52/5 8
49	97-98	0	0	0	0	0	0	16	0	0	0
50	99- 100	0	0	0	0	0	0	0	0	0	0

Table S3. Vaginal and cervical HR-HPV infections and correlation to cervical cytology.

Cytology	Any vaginal HR-HPV; n (%)	Any cervical HR-HPV; n (%)	Any cervical/vaginal HR-HPV; n (%)	Vaginal and cervical HR-HPV negative; n (%)
NILM	12 (57.1)	8 (66.7)	14 (60.9)	17 (63.0)
ASCUS	3 (14.3)	2 (16.7)	3 (13.0)	1 (3.7)
ASC-H	2 (9.5)	1 (8.3)	2 (8.7)	1 (3.7)
LSIL	2 (9.5)	1 (8.3)	2 (8.7)	3 (11.1)
HSIL	1 (4.8)	0 (0)	1 (4.3)	0 (0)
Squamous cell carcinoma	0 (0)	0 (0)	0 (0)	0 (0)
No data	1 (4.8)	0 (0)	1 (4.3)	5 (18.5)

Table S4. Type-specific HR-HPV concordance in any mucous membrane in couples.

	Female negative	Female positive	P=0.004
Male negative; n (%)	18 (42.9)	24 (57.1)	
Male positive; n (%)	21 (77.8)	6 (22.2)	