

Table 2.11. Prevalence of HPV DNA in case-series of vaginal cancer

Reference, study location	Method ^a of detection (types tested)	No. of cases, type and location	Overall HPV positivity (% ^a)	Type-specific HPV positivity (% ^b)						Multiple infections (%)	Comments	
				6/11	16	18	31	33	Others (Type)			
Kiyabu <i>et al.</i> (1989), USA	E6 for HPV16 and HPV18.	14	N=9 (64.3%)	N/A	N=8 (89%)	N=1 (11%)	N/A	N/A	N/A	N=0 (0%)	Formalin-fixed paraffin-embedded tissue samples.	
Waggoner <i>et al.</i> (1994), USA	L1 primers (E6/E/7)	7 Adenocarcinomas	N=2 (28.6%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=2 (100%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	Formalin-fixed paraffin-embedded tissue samples. 1 case negative for B-globin.	
Carter <i>et al.</i> (2001), USA	MY09/11 and RFLP; type-specific for 16, 18.	54	N=49 (90.7%)	N/A	N=34 (69.4%)	N=3 (6.1%)	N=2 (4%) (HPV30/31/33/35/39)		N=15 (30.6%) (HPV6/45/52/54/58/66/72/73/x)	N=5 (10.2%)	Formalin-fixed paraffin-embedded tissue samples. Histological type not specified. Patients with either a HPV16 and/orHPV18 serology result.	
Daling <i>et al.</i> (2002), USA	MY09/11 for 6/11, 16, 18/45, 31	25	N=16 (64%)	N=2 (12.5%)	N=14 (87.5%)	N=3 (18.75%) (HPV18/ 45)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=1 (6.25%) (HPV16&18) N=2 (12.5%) (HPV16&6/11)	Formalin-fixed paraffin-embedded tissue samples.	
Koyamatsu <i>et al.</i> (2003), Japan	E7 (115-158 bp) for HPV16, HPV 18, L1 (250bp) for HPV 6,11,16,18,31,33, 42,52,58	16	N=7 (43.75%)	N/A	N=6 (85.7%)	N=1 (14.3%)	N/A	N/A	N/A	N/A	Formalin-fixed paraffin-embedded tissue samples.	
Habermann <i>et al.</i> (2004), Sweden	PGMY09/11	8	N=2 (25%)	N=0 (0%)	N=1 (50%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=1 (50%) (HPV52)	N=0 (0%)	Formalin-fixed paraffin-embedded tissue samples from biopsies taken before radiation therapy and surgery.	
Ferreira <i>et al.</i> (2008), Portugal	INNO-LiPA (6,11,16,18,31,33,35, 40,58)	6 Keratinizing	Upper N=2	Upper N=2 (100%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	Upper N=2 (100%)	N=0 (0%)	Upper N=1 (50%) (HPV40) Upper N=1 (50%) (HPV58)	Upper N=1 (50%) (HPV31 & 40 & 58)	Formalin-fixed paraffin-embedded tissue samples.
			Middle N=2	Middle N=2 (100%)	Middle N=1 (50%) (HPV6 & 11)	N=0 (0%)	N=0 (0%)	Middle N=2 (100%)	Middle N=1 (50%)	N=0 (0%)	Middle N=1 (50%) (HPV6 & 11 & 31 & 33)	
			Lower N=1	Lower N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	
			Upper&	Upper&	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	

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Ferreira <i>et al.</i> (2008), Portugal	INNO-LiPA (6,11,16,18,31,33,35, 40,58)	7 Non-Keratinizing	Middle N=1	Middle N=0 (0%)								
			Upper N=5	N=5 (100%)	N=0 (0%)	Upper N=3 (60%)	Upper N=1 (20%)	N=0 (0%)	Upper N=1 (20%)	N=0 (0%)	N=0 (0%)	
			Middle N=2	Middle N=2 (100%)	Middle N=1 (50%) (HPV6)	Middle N=1 (50%)	N=0 (0%)	Middle N=1 (50%)	N=0 (0%)	Middle N=1 (50%) (HPV40) Middle N=1 (50%) (HPV58)	Middle N=1 (50%) (HPV16 & 31 & 40 & 58)	
		3 Basaloid	Upper N=1	Upper N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	
			Middle N=1	Middle N=1 (100%)	N=0 (0%)	N=1 (100%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	
			Lower N=1	Lower N=1 (100%)	N=0 (0%)	N=1 (100%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	
		5 Warty	Upper N=2	Upper N=2 (100%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	Upper N=1 (50%)	N=0 (0%)	Upper N=1 (50%) (HPV35) Upper N=1 (50%) (HPV40)	Upper N=1 (50%) (HPV35 & 40)	
			Unknown N=1	Unknown N=1 (100%)	N=0 (0%)	N=0 (0%)	Unknown N=1 (100%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	
			All N=2	All N=1 (50%)	N=0 (0%)	All N=1 (100%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	N=0 (0%)	
Madsen <i>et al.</i> (2008), Denmark	GP5+/6+ PCR-EIA assay and type-specific for HPV16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66 & 68 and other 23 low risk HPV	27	N=24 (88.9%)	N=0 (0%)	N=21 (87.5%)	N=1 (4.17%)	N=0 (0%)	N=2 (8.3%)	N=1 (4.17%) (HPV39) N=1 (4.17%) (HPV45)	N=1 (4.17%) (HPV16&18) N=1 (4.17%) (HPV16&33)	Formalin-fixed paraffin-embedded tissue samples.	

a. percentages given are percentages of HPV positives among all samples.

b. percentages given are percentages of HPV types among HPV positives cases.