

Table 2.24. Prevalence of HPV DNA in case series of cancers of the oesophagus detected by PCR

Reference, study location	Method of detection ^a (types included)	Sites included	No of cases	Overall HPV positivity (%)	Type-specific HPV positivity (%)							Multiple infections (%)	Comments
					6	11	16	18	31	33	Others (type)		
Bahnassy <i>et al.</i> (2005), Egypt	SPF-10 INNO IPA	Oesophagus 47 SCC 3 undifferentiated	50	54.0		6.0	30.0	18.0			0.0	16.0	Paraffin-embedded tissue Normal biopsies 24% (12/50) from same patients
Castillo <i>et al.</i> (2006), Colombia, Chile	GP5+/6+	Oesophagus SCC	73	29.0			15.1	13.7			0.0		Paraffin embedded HPV 18 only in Colombia HPV 16 13% Colombia, 19% Chile
Souto Damin <i>et al.</i> (2006) Brazil	GP5+/6+	Oesophagus SCC	165	15.8			15.2	1.2				0.6	Formalin-fixed Positive and negative tumours were similar by gender, age, histological differentiation and tumour stage No HPV detected in 26 biopsies from dyspeptic patients
Shuyama <i>et al.</i> (2007) Gansu and Shandong, China	SPF 10, INNO IPA GP5+/6+ Southern Blot	Oesophagus SCC	59 26 Gansu (high incidence) 33 Shandong (low incidence)	32.0 (overall) 65.0 (Gansu) 6.0 (Shandong) $p<0.001$			25.4	5.1				5.1	Formalin-fixed
Pantelis <i>et al.</i> (2007) Germany	Type specific HPV 16 and HPV 18 PCR	Oesophagus SCC	53 tumour 53 normal tissue from same patients	17.0			11.3	5.7				0.0	Formalin-fixed P53 Arg 72 allele more frequent in positive tumours Concordance between tumor and normal tissue
Koh <i>et al.</i> (2008) Korea	E6 E7 consensus primers for HPV16, 18, 31, 33, 35, 52b and 58) TS PCR for HPV16	Oesophagus SCC	129 tumours 102 beta globin positive 40 normal specimens 8 fresh tumours	0.0									Formalin fixed paraffin embedded Cervical cancer positive controls 8/10 detection

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Far <i>et al.</i> (2007) Iran	GP5+-6+ sequencing	Oesophagus SCC	140	23.6 tumour 8.6 margins			14.3	7.2	0.7	1.4			Formalin-fixed paraffin embedded No difference by gender or age
Lu <i>et al.</i> (2008) Xinjiang, China	INNO-LIPA 24 types	Oesophagus SCC	67	21.0 in tumour 9% in surrounding tissue			12.0						Formalin-fixed paraffin embedded

Note: Percentages given for HPV types correspond to percentages of total cases