

Table 2.28. Prevalence of HPV DNA in case series of lung cancer detected by PCR

Reference, study location	Method of detection ^a (types included)	No and type of lesions	Overall HPV positivity (%)	Type-specific HPV positivity (%)							Multiple infections (%)	Comments
				6	11	16	18	31	33	Others (type)		
Coissard <i>et al.</i> (2005) France	Line blot 21 HR 16 LR types	218 126 SCC 80 AC 11 large cell 1 carcinoid	2.0			2.0						Snap frozen ¾ positives were large cell Confirmed with real time PCR, low viral load No E6 expression
Fei <i>et al.</i> (2006) China	ISH for HPV 16 18	73 NSCLC (41 SCC, 32 AC 34 non cancer controls	31.5 5.9 in non cancers			26.0	23.3					Paraffin sections HPV was present in nuclei of tumor HPV not correlated with age, gender, smoking, tumour type, stage grades
Nadji <i>et al.</i> (2007) Iran	MY09/MY11 GP5+/6+ Sequencing	129 tumours 90 non cancer	25.6 9.0 in non cancers	2.3	1.6	10.1	8.5	2.3		HPV 26 0.8%		Paraffin-embedded In non cancers predominance of HPV 6-11, no 16
Park <i>et al.</i> (2007) South Korea	TS PCR for HPV 16, 18, 33	112 NSCLC (53 AC, 53 SCC, 6 large cell)	Not stated			10.7	9.8		31.3	16/18 18/33 16/33	0.9% 3.9% 3.9%	Paraffin-embedded HPV detection similar in males and females and by histology, HPV 16 more common under 50
Aguayo <i>et al.</i> (2007) Chile	GP5+/GP6+ Southern Blot Sequencing Real time PCR (viral load, integration)	69 (37 SCC, 32 AC)	29.0 46.0 SCC 9.0 AC			27.0 SCC 3.1 AC	8.0 SCC	3.0 SCC			HPV 45 5.0% SCC	Paraffin-embedded bronchoscopic biopsies HPV not related to gender, age or smoking All but one case had integrated DNA, viral load was low and only two cases had E6 expression
Cheng <i>et al.</i> (2007) Taiwan	MY09/11 L1 TS primers HPV 16 / 18	122	45.9									Paraffin-embedded E6 expression only in HPV positives
Jain <i>et al.</i> (2005) India	450 bp consensus primer PCR TS PCR for HPV16	40 'lung cancers'	5.0				5.0					Fresh frozen

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