

**Table 2.12. Cohort studies on tobacco smoking and pharyngeal cancer**

Reference, Country and years of study	Subjects	Organ site (ICD code)	Number of cases	Smoking categories	Relative risk (95%CI)*	Comments
Doll <i>et al.</i> (2005) UK 1951-2001	34439 men British doctors	Oropharyngeal and hypopharyngeal	34	<i>Cigarette smokers</i>	Mortality rate	Annual mortality rate for 100000 men
				Non smoker	0.0	
				Former smoker	1.7	
				Current smoker	6.7	
				<i>Cigarettes per day</i>		
				1-14	4.5	
				15-24	0.0	
				≥25	19.4	
				<i>Other smokers</i>		
				Former	1.7	
Current	7.1					
Friborg <i>et al.</i> (2007) Singapore 1993-98	Population-based cohort 248 cases	Oropharynx		Never smokers	1.0	Analysis were adjusted for age, sex, dialect group, year of interview, level of education, summed intakes of protein-rich preserved food items, summed intakes of fresh vegetables, and history of familial nasopharyngeal carcinoma; for smoking variables, analyses were adjusted further for alcohol consumption
				Former smokers	1.4 (0.6-3.2)	
				Quit >10 y	0.7 (0.2-2.6)	
				Quit <10 y	2.3 (0.9-5.7)	
				Current smokers	3.5 (1.9-6.4)	
				<i>Age at smoking initiation, y</i>		
				Never smokers	1.0	
				≥20	2.5 (1.2-5.4)	
				15-19	2.8 (1.3-6.3)	
				<15	7.7 (3.7-15.9)	
				<i>Smoking history, y</i>		
				Never smokers	1.0	
				1-39	2.5 (1.2-5.3)	
				≥40	4.8 (2.4-9.5)	
<i>No. of cigarettes per d</i>						
Never smokers	1.0					
1-12	2.6 (1.2-5.7)					
13-22	3.6 (1.7-7.6)					
≥23	6.5 (2.9-14.6)					

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Friborg <i>et al.</i> (2007) (contd)				<b>Age at smoking initiation</b> <b>≥20 years</b> <i>Duration of smoking</i> 1-39 years of smoking ≥40 years of smoking <b>&lt;20 years</b> <i>Duration of smoking</i> 1-39 years of smoking ≥40 years of smoking <b>No. of cigarettes per d</b> <b>1-22 cig/d</b> <i>Duration of smoking</i> 1-39 years of smoking ≥40 years of smoking <b>≥23 cig/d</b> <i>Duration of smoking</i> 1-39 years of smoking ≥40 years of smoking	1.8 (0.7-4.8) 4.0 (1.5-11.1) 3.8 (1.5-9.6) 5.0 (2.4-10.1) 2.1 (0.9-5.0) 4.2 (2.0-8.7) 4.8 (1.6-14.1) 7.8 (3.2-19.2)	
Freedman <i>et al.</i> (2007a) USA 1995-00	National Institutes of Health/American Association of Retired Persons Diet and Health Study 283691 men 192520 women	Oropharyngeal and hypopharyngeal	106 men, 33 women			Hazard ratios from Cox models adjusted for sex, age at entry into cohort, BMI, education, alcohol intake, vigorous physical activity, usual activity throughout the day, fruit intake, vegetable intake, and total energy.

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Freedman <i>et al.</i> (2007a) (contd)				<b>Men</b>		
				Never smokers	1.0	
				Former smokers	5.29 (1.50-18.61)	
				Current smokers	11.39 (3.21-40.40)	
				<i>Years of cessation</i>		
				Stopped ≥10 y	3.81 (0.98-14.89)	
				Stopped 5-9 y	6.11 (1.22-30.60)	
				Stopped 1-4 y	12.57 (2.78-56.86)	
				<i>Usual no. of cigarettes</i>		
				≤1 packs/d	6.73 (1.97-22.98)	
				>1 to ≤2 packs/d	6.21 (1.57-24.55)	
				>2 packs/d	19.81 (4.33-90.62)	
				<b>Women</b>		
				Never smokers		
				Former smokers		
				Current smokers		
				<i>Years of cessation</i>		
				Stopped ≥10 y		
				Stopped 5-9 y		
				Stopped 1-4 y		
				<i>Usual no. of cigarettes</i>		
				≤1 packs/d		
				>1 to ≤2 packs/d		
				>2 packs/d		