

Table 2.23. Case-control studies of *helicobacter pylori* infection and lung cancer

Reference, study location and period	Characteristics of cases	Characteristics of controls	Detection method	Exposure categories	No. of exposed cases	Relative risk* (95% CI)	Adjusted potential confounders	Comments
Gocyk <i>et al</i> (2000) Poland	50 histologically confirmed cases of lung carcinoma, histologic type 80% squamous cell carcinoma, 20% adenocarcinoma. Included 45 men, 5 women with median age of 64 years (range 47 to 82 years).	100 controls, including 90 men, 10 women with a median age of 63 years (range 47 to 82 years). Characteristics of controls not otherwise specified.	Serology/ELISA anti <i>H. pylori</i> IgG anti CagA IgG	<i>Positive/negative</i>	<i>H.pylori</i> + 45 CagA+ 30	[5.06(1.89-13.43)] [4.50(2.19-9.25)]	None	
Philippou, <i>et al</i> (2004) Greece	72 histologically confirmed lung cancer cases: 55 males and 17 females; 83% current smokers, 13.9% ex-smokers, 2.8% never smoker mean age, 58.2± 11.7 years. Cases diagnoses 2001-2002.	68 controls randomly selected from attendees at public health education courses. Exclusion criteria included known history of lung cancer and known history of gastrointestinal tract pathology. Age matched (±2yrs), sex and socioeconomic status (not defined), 55 males and 18 females; mean age 54.8±12.1 years; 29.4% current smokers 11.8% ex-smokers, 58.8% never smokers.	Serology/ELISA <i>H. pylori</i> IgG	<i>H. pylori</i> + >25U/mL	44	[1.25(0.63-2.47)]	None	
Ece <i>et al</i> (2005) Turkey	43 non small cell lung cancer cases, all current smokers: 22 squamous cell (SCC) (21 males,1 females); 21 adenocarcinoma (AC); (14 males,7 females)	28 controls, all current smokers	Immunoblot for <i>H pylori</i> IgG	<i>H.pylori</i> +>12	SCC 20 AC 20	[13.33(2.83-60.44)] (26.67(3.87-173.14)]	None	Both Vac A and CagA seropositivity high in lung cancer pts(>80%); only VacA statistically significantly higher in cases than controls (p<0.05). Small sample size

Table 2.23. Case-control studies of *helicobacter pylori* infection and lung cancer

Reference, study location and period	Characteristics of cases	Characteristics of controls	Detection method	Exposure categories	No. of exposed cases	Relative risk* (95% CI)	Adjusted potential confounders	Comments
Najafizadeh <i>et al</i> (2007) Iran	40 histologically confirmed lung cancer cases; 32 men, 8 women; aged 16-77 years mean age 55.5±11.91	40 healthy subjects: 25 men, 15 women; aged 20-79 years, mean age 43.08 ±12.60	Serology/ELISA <i>H.pylori</i> IgG	<i>Optical density (read at 450nm)</i> <i>H.pylori</i> + >1.10 U/ml	21	[1.35(0.56 – 3.25)]	Age	Did not adjust for smoking. Small sample size