

Table 2.4. Nested case-control studies of *H. pylori* infection and cardia gastric cancer

Reference, study location and period	Characteristics of cases	Characteristics of controls	Detection method	Exposure category	Exposed cases/controls (%)	Odds ratio (95% CI)	Odds ratio (95% CI) by follow-up periods	Adjusted potential confounders	Comments
<i>Helicobacter</i> and Cancer Collaborative Group (2001) Pooled Analysis – studies to 1999	274, 32–90 years at recruitment	827 matched on study, sex, age and date of sample collection	ELISA IgG (various)	<i>H. pylori</i> +	62.0/61.9	0.99 (0.72–1.35)	<10 years 1.23 (0.86–1.75) 10+ years 0.46 (0.23–0.90)	None	Includes results published in Forman <i>et al.</i> (1991); Parsonnet <i>et al.</i> (1991); Nomura <i>et al.</i> (1991); Lin <i>et al.</i> (1995); Webb <i>et al.</i> (1996); Aromaa <i>et al.</i> (1996); Simán <i>et al.</i> (1997); Watanabe <i>et al.</i> (1997); Wald <i>et al.</i> (1997); Hansen <i>et al.</i> (1999); Yuan <i>et al.</i> (1999); Limburg <i>et al.</i> (2001)
Shin <i>et al.</i> (2005) Korean Multi-center Cohort, Korea – 1993–1999 (follow-up length n/a)	6, over 30 years at recruitment	24 matched on sex, age, study centre and date of sample collection	ELISA IgG Genedia kit (Greencross Life Science)	<i>H. pylori</i> +	66.7/83.3	0.88 (0.38–2.28)		Education, smoking and alcohol consumption	
Kamangar <i>et al.</i> (2006) ATBC Study Finland of male smokers – 1985–88 with follow-up to 1999	61, 50–69 years at recruitment	61 matched on age	ELISA IgG (Limburg <i>et al.</i> 2001)	<i>H. pylori</i> +	59/75	0.31 (0.11–0.89)	<7 years <0.01 (<0.01–2.64) 7+ years 0.70 (0.16–3.00)	Age, education, residence area, smoking, BMI and diet (nitrates, fruit, vegetables, salt, starch)	Results included, in part, in pooled analysis.
			ELISA IgG	CagA+	41/36	0.43 (0.12–1.52)			

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Palli <i>et al</i> (2007) EPIC Study in 9 European countries – 1992–98 with follow-up to 1999 or 2002 (mean 6.1 years)		910 matched on study centre, sex, age and date of sample collection	ELISA IgG (Ghiara <i>et al</i> 1997)	<i>H. pylori</i> +	64.8/68.7	0.8 (0.4–1.8)		Education, smoking, weight and dietary factors (vegetable, fruit, red meat, preserved meat)	
			ELISA IgG	CagA +	46.3/46.2	0.8 (0.4–1.9)			
Knekt <i>et al</i> (2006) Finnish Health Examination Cohort, Finland – 1968–72 with follow-up to 1991	32, 15+ years at recruitment	63 matched on sex, age, municipality (and, hence, length of storage)	ELISA IgG (Aromaa <i>et al</i> 1996)	<i>H. pylori</i> +	78.1/81	0.82 (0.29–2.35)		None	Results included, in part, in Aromaa (1996) and in pooled analysis.
			ELISA IgA	<i>H. pylori</i> +	75.0/74.6	1.00 (0.36–2.74)			
Sasazuki <i>et al</i> (2006) Japan Public Health Centre Study, Japan – 1990–94 with follow-up to 2004.	39, 40–69 years at recruitment with cancer located in upper third of stomach.	39 matched on sex, age, residence, length of fast and date of sample collection.	ELISA IgG Eiken (Eiken Kagaku Co, Tokyo)	<i>H. pylori</i> +	94.9/84.6	3.7 (0.2–68.4)		Smoking, BMI, family history and diet (fish, vegetables, fruit, green tea)	
Kamangar <i>et al</i> (2007) Linxian General Population Trial, China – 1985 with follow-up to 2001	582, 40–69 years at recruitment	992	ELISA IgG (Limburg <i>et al</i> 2001)	<i>H. pylori</i> +	81/73	1.64 (1.26–2.14)	<5 years 1.30 (0.92–1.85) 5–10 years 1.35 (0.93–1.97) >10 years 2.41 (1.38–3.01)	Age, age- squared and sex	Results included, in part, in Limburg <i>et al.</i> (2001) and in pooled analysis.
			ELISA IgG (Blaser <i>et al</i> 1995)	CagA+	64/56	1.75 (1.32–2.30)			

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Hansen <i>et al</i> (2007) JANUS Study, Norway – 1973–86	44	132 matched on sex, age, study, date of blood sample	ELISA IgG Pyloriset EIA-G (Orion Diagnostics)	<i>H. pylori</i> +	43/71	0.27 (0.12–0.59)			Results included, in part, in Hansen <i>et al.</i> (1999) and in pooled analysis.
Simán <i>et al</i> (2007) Malmo Preventive Medicine Cohort, Sweden – 1974–92 with follow-up to 2000	24, 34–61 years at recruitment	88 matched on sex, age and date of sample collection.	Western blot Helicoblot 2.1 (Genelabs Diagnostics, Singapore)	<i>H. pylori</i> +	71/61	1.5 (0.51–4.8)		Smoking and occupation	Results included, in part, in Simán <i>et al.</i> 1997 and in pooled analysis.
			Western blot Helicoblot 2.1	CagA+	83/69	2.3 (0.66–12)			
Mitchell <i>et al</i> (2008) Melbourne Collaborative Cohort, Australia – 1990–94 with follow-up to 2002	18, 42–69 years at recruitment	69 matched on sex, age, country of birth and date of sample collection.	Western blot Helicoblot 2.1 (Genelabs Diagnostics, Singapore)	<i>H. pylori</i> +	44/39	1.2 (0.4–3.4)			
			ELISA IgG <i>pylori</i> DTect (Diagnostic Technology, Sydney)	<i>H. pylori</i> +	33/35	0.9 (0.3–2.7)			