

Table 2.1. Nested case–control studies of *H. pylori* infection and non-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
Helicobacter and Cancer Collaborative Group (2001) Pooled Analysis – studies to 1999	762, 32–90 years at diagnosis	2250 matched on study, sex, age and date of sample collection	ELISA IgG (various)	<i>H. pylori</i> +	(86.0/68.6)	2.97 (2.34–3.77)	<10 years 2.39 (1.82–3.12) 10+ years 5.93 (3.41–10.3)	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> (1999); Hansen <i>et al.</i> (1999); Yuan <i>et al.</i> (1999); Limburg <i>et al.</i> (2001)
Nomura <i>et al</i> (2002) Male Japanese Americans, Hawaii – 1967-75 with follow-up to 1996.	261, 46–75 years at recruitment	261 matched on age and date of sample collection	ELISA IgG (Nomura <i>et al.</i> 1991)	<i>H. pylori</i> +	89/74	2.8 (1.7–4.6)	<10 years 1.7 (0.6–4.8) 10+ years 3.5 (1.8–6.8)	Smoking	Results included, in part, in Nomura <i>et al.</i> (1991) and in pooled analysis.
			ELISA CagA (Blaser <i>et al.</i> 1995)	CagA+	72/59	1.9 (1.3–2.8)	<10 years 2.9 (1.3–6.4) 10+ years 1.9 (1.2–3.2)		
Shin <i>et al</i> (2005) Korean Multi-center Cohort, Korea – 1993-1999 (follow-up length n/a)	70, over 30 years at recruitment	280 matched on sex, age, study centre and date of sample collection	ELISA IgG Genedia kit (Greencross Life Science)	<i>H. pylori</i> +	(85.7/82.5)	1.07 (0.77–1.49)	Includes cardia cancers: 5+ years 1.26 (0.64–2.48)	Education, smoking and alcohol consumption	
Gwack <i>et al.</i> (2006)			Immuno-CagA+ blot (Helico Blot 2.1)		NR	3.74 (1.10–12.73)			

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Kamangar <i>et al</i> (2006) ATBC Study Finland of male smokers – 1985-88 with follow-up to 1999	173, 50–69 years at recruitment	173 matched on age	ELISA IgG (Limburg <i>et al.</i> 2001)	<i>H. pylori</i> +	93/75	7.92 (3.03–20.90)	<7 years 12.97 (2.79–60.23) 7+ years 6.15 (1.42–26.56)	Age, education, residence area, smoking, BMI and diet (nitrates, fruit, vegetables, salt, starch)	Results included, in part, in pooled analysis.
			ELISA IgG	CagA+	64/50	8.93 (3.27–24.40)			
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)	127, 35-74 years at recruitment	910 matched on study centre, sex, age and date of sample collection	ELISA IgG (Ghiara <i>et al.</i> , 1997)	<i>H. pylori</i> +	(90.6/68.7)	4.7 (2.5–9.0)		Education, smoking, weight and dietary factors (vegetable, fruit, red meat, preserved meat.	
			ELISA IgG	CagA +	(78.7/46.2)	6.5 (3.3–12.6)			
Knekt <i>et al</i> (2006) Finnish Health Examination Cohort, Finland – 1968-72 with follow-up to 1991	193, 15+ years at recruitment	372 matched on sex, age, municipality (and, hence, length of storage)	ELISA IgG (Aromaa <i>et al.</i> , 1996)	<i>H. pylori</i> +	(91.2/78.5)	2.88 (1.63–5.07)	<5 years 2.74 (0.87–8.62) 5-9 years 2.50 (0.87–7.21) 10-14 years 1.72 (0.53–5.60) 15+ years 5.20 (1.52–17.7)	None	Results included, in part, in Aromaa <i>et al.</i> (1996) and in pooled analysis.
			ELISA IgA	<i>H. pylori</i> +	(82.4/62.4)	3.12 (1.97–4.95)			
Sasazuki <i>et al</i> (2006) Japan Public Health Centre Study, Japan – 1990-94 with follow-up to 2004.	368, 40–69 years at recruitment with cancer located in distal portion of stomach (ie excluding upper third)	368 matched on sex, age, residence, length of fast and date of sample collection.	ELISA IgG Eiken (Eiken Kagaku Co, Tokyo)	<i>H. pylori</i> +	(93.5/74.5)	5.1 (3.0–8.6)	Includes upper third cancers: 8+ years 4.5 (1.8–11.4)	Smoking, BMI, family history and diet (fish, vegetables, fruit, green tea)	
			ELISA IgG (Sceti Co Ltd, Rome)	CagA+	Includes upper third cancers 76/70	Includes upper third cancers 1.5 (1.1–2.1)			

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Kamangar <i>et al</i> (2007) Linxian General Population Trial, China – 1985 with follow-up to 2001	343, 40–69 years at recruitment	992	ELISA IgG (Limburg <i>et al</i> 2001)	<i>H. pylori</i> +	80/73	1.60 (1.15–2.21)	<5 years 2.32 (1.35–3.97) 5-10 years 1.23 (0.77–1.98) >10 years 1.27 (0.78–2.08)	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+	59/56	1.58 (1.13–2.22)			
Hansen <i>et al</i> (2007) JANUS Study, Norway – 1973-86	129	376 matched on sex, age, study, date of blood sample	ELISA IgG Pyloriset EIA-G (Orion Diagnostics)	<i>H. pylori</i> +	90/66	4.75 (2.56–8.81)			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	67, 34–61 years at recruitment	250 matched on sex, age and date of sample collection.	Western blot Helicoblot 2.1 (Genelabs Diagnostics, Singapore)	<i>H. pylori</i> +	97/59	17.8 (4.2–74.8)		Smoking and occupation	Results included, in part, in Simán <i>et al.</i> (1997) and in pooled analysis.
			Western blot Helicoblot 2.1	CagA+	98/77	16.8 (2.2–130)			
Mitchell <i>et al</i> (2008) Melbourne Collaborative Cohort, Australia – 1990-94 with follow-up to 2002	34, 42–69 years at recruitment	134 matched on sex, age, country of birth and date of sample collection.	Western blot Helicoblot 2.1 (Genelabs Diagnostics, Singapore)	<i>H. pylori</i> +	94/63	10.6 (2.4–47.4)			
			ELISA IgG <i>pylori</i> DTect (Diagnostic Technology, Sydney)	<i>H. pylori</i> +	79/63	2.3 (0.9-5.8)			