

Table 2.2. Cohort studies of *H. pylori* infection and gastric cancer

Reference, study location and period	Cohort description	Detection method	Exposure category	Outcomes by exposure No. of exposed cases	Relative risk (95% CI)	Adjusted potential confounders
Yamagata <i>et al.</i> (2000) Hisayama Study, Japan 1988	2602 subjects, 40+ years at recruitment undergoing screening examination followed up for 9 years.	ELISA IgG (HM-CAP, Enteric Products, Westbury, New York)	<i>H. pylori</i> + status	51 <i>H.pylori</i> + 16 <i>H.pylori</i> - or ind-developed gastric cancer	2.90 (1.14–7.38) in men 1.01 (0.34-2.97) in women	Age, BMI, smoking, alcohol consumption, serum cholesterol, plasma glucose, history of PUD and diet.
You <i>et al.</i> (2000) Linqu County Study, China 1989–90	3433 subjects, 35–64 years at recruitment undergoing screening examination followed up for 4.5 years	ELISA IgG	<i>H. pylori</i> + status	164/1411 <i>H.pylori</i> + 35/478 <i>H.pylori</i> - showed progression to gastric dysplasia or cancer.	1.8 (1.2–2.6)	Sex, age, smoking and baseline histopathology
Uemura <i>et al.</i> (2001) Japan 1990–93	1526 patients with nonulcer dyspepsia, gastric or duodenal ulcer followed up for mean of 7.8 years.	Histological assessment, rapid urease test and ELISA IgG (HM-CAP, Enteric Products, Westbury, New York)	<i>H. pylori</i> + status	36/1246 (2.9%) <i>H. pylori</i> + 0/280 <i>H.pylori</i> - developed gastric adenocarcinoma (p<0.001)		
Watabe <i>et al.</i> (2005) Kameda Cohort, Japan 1995–97	9293 patients undergoing endoscopy (excluding those with gastric cancer or peptic ulcer) 6983 analysed and followed up for mean of 4.7 years.	ELISA IgG (GAP-IgG, Biomerica, California).	<i>H. pylori</i> + status	24 (all non-cardia)/3216 <i>H.pylori</i> + 7 (5 non-cardia)/ 3324 <i>H.pylori</i> - developed gastric cancer and 12/443 <i>H.pylori</i> - with atrophic gastritis	[3.6]	
Hsu <i>et al.</i> (2007) Taiwan 1990–98	1225 patients with nonulcer dyspepsia, gastric or duodenal ulcer, 20–76 years followed up for mean of 6.3 years.	Histological assessment and rapid urease test	<i>H. pylori</i> + status	7/618 <i>H. pylori</i> + 0/607 <i>H. pylori</i> - developed gastric adenocarcinoma (p=0.021)		
Yanaoka <i>et al.</i> (2008) Wakayama City Cohort, Japan 1994–95	5209 asymptomatic male subjects, 40–60 years at recruitment undergoing workplace health checks followed up for 10 years.	ELISA IgG (MBL, Nagoya)	<i>H. pylori</i> + status	55/3656 (157/10 000) <i>H. pylori</i> + 8/1553 (?/10 000) <i>H.pylori</i> - or ind developed gastric cancer	3.48 (1.26–9.64)	