

**Table 2.3. Randomized intervention studies of *H. pylori* eradication and gastric cancer**

Reference, study location and period	Study description	Intervention	Follow-up	Outcomes by trial arm	Relative risk (95% CI)	Comments
Wong <i>et al.</i> (2004) Fuijin Province, China 1994	1630 carriers of <i>H. pylori</i> infection undergoing endoscopy, 35–65 years at recruitment	Randomized to <i>H. pylori</i> eradication treatment (817) or placebo (813)	Mean, 7.5 years; 84% eradication success rate	7 (0.86%) and 11 (1.35%) incident cases of gastric cancer in treatment/placebo arms	p=0.33	Subjects with no precancerous lesions on recruitment had 0 (0.0%) and 6 (1.2%) incident cancers in treatment/placebo arms (p=0.02)
Leung <i>et al.</i> (2004) China Shandong Province, China 1996	587 (435 for analysis) carriers of <i>H. pylori</i> infection undergoing endoscopy age >45 years	Randomized to <i>H. pylori</i> eradication treatment (297 – 220 for analysis) or placebo (292 – 215 for analysis)	5 years	4 and 6 incident cases of gastric cancer in treatment/placebo arms		
Mera <i>et al.</i> (2005) and Correa <i>et al.</i> (2000) Narino, Colombia 1991	795 carriers of <i>H. pylori</i> infection undergoing endoscopy, 29–69 years at recruitment	Randomized to <i>H. pylori</i> eradication treatment (394) or placebo (386)	6 years 75% eradication success rate	3 and 2 incident cases of gastric cancer in treatment/placebo arms.		Other arms of trial (factorial design) were ascorbic acid and beta-carotene supplementation
You <i>et al.</i> (2006) Shandong Province, China 1994	2258 healthy carriers of <i>H. pylori</i> infection, 35–64 years at recruitment	Randomized to <i>H. pylori</i> eradication treatment (1130) or placebo (1128)	10 years; 73% eradication success rate	19 (1.68%) and 27 (2.39%) incident cases of gastric cancer in treatment/placebo arms	p=0.23	Study also reported significant reduction in precancerous lesions in treatment arm. Other arms of trial (factorial design) were multi-vitamin and garlic oil supplementation.
Fukase <i>et al.</i> (2008) Japan 2001–03	544 patients with <i>H. pylori</i> infection and early gastric cancer and undergoing endoscopic mucosal resection, 20–79 years at recruitment	Randomized to <i>H. pylori</i> eradication treatment (272) or standard care (272)	3 years; 75% eradication success rate	9 (3.3%) and 24 (8.8%) metachronous gastric cancers in treatment/control arms	0.353 (0.161–0.775) p=0.009	