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# Helicobacter Pylori in Peptic Ulcer Disease

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# HELICOBACTER PYLORI IN PEPTIC ULCER DISEASE

Peptic ulcer disease has been considered to be a chronic gastrointestinal illness with low mortality but with frequent clinical flareups. In the United States population alone, the lifetime prevalence of peptic ulcer disease is about one in ten. This statistic underscores the high economic cost (i.e., cost of diagnosing, cost of medicines, and loss of time from work) as well as the human cost of peptic ulcer disease.

Researchers have had a long standing interest in understanding the cause of peptic ulcer disease. Up until recently, the development of peptic ulcer disease was thought to be caused only by an imbalance between aggressive factors (acid secretion and pepsin secretion), and defensive factors (mucus, bicarbonate secretion, mucosal blood flow, gastric mucosal barrier, and cellular regeneration). The recent isolation of *Helicobacter pylori* from patients with chronic gastritis and duodenal and gastric ulcers has thus revolutionized our thinking about the pathogenesis of peptic ulcer disease.

Current data suggest that persistent infection with *Helicobacter pylori* may account for the high recurrence rates and the chronicity of peptic ulcer disease. Thus, because of the presence of this organism in ulcers, conventional treatment of peptic ulcer disease has to be altered. At the present time, there is no generally accepted, safe and effective therapy for *H. pylori* infections. Several clinical trials, using a single antibiotic or even two antibiotics, have found these therapies to be ineffective in eradicating the infection. Worldwide, several large clinical studies are under way to evaluate the best treatment for *H. pylori* infection.

Of great clinical importance are the recently published epidemiologic data which show a link of *H. pylori* infection to gastric cancer. In several population studies, there is a significantly higher rate of *H. pylori* infection among those who had gastric cancer. These findings would strongly strengthen the position that the treatment of *H. pylori* positive disease should be undertaken and may be chemopreventive for the prevention of gastric malignancy.

This bibliography was prepared in support of the National Institutes of Health Consensus Development Conference titled Helicobacter Pylori convened in Bethesda, Maryland on February 7-8, 1994. It consists primarily of citations to English, German, and Japanese language journal articles published from 1988 to the present; a few earlier articles of special interest and articles in other languages were also selected. The 1191 citations were selected from a search of the journal literature. Editorials and letters have been included.

The bibliography is arranged in fifteen subject categories. A citation may appear in more than one category.

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### Journal Article:

*Authors* — *Article Title*

Marshall BJ. Virulence and pathogenicity of Helicobacter pylori.
J Gastroenterol Hepatol 1991 Mar-Apr;6(2):121-4.

*Abbreviated Journal Title* — *Date* — *Volume* — *Issue* — *Pages*

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*For details of the formats used for references, *see* the following publication:

Patrias, Karen. *National Library of Medicine recommended formats for bibliographic citation.* Bethesda (MD): The Library; 1991 Apr. Available from: NTIS, Springfield, VA; PB91-182030.

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## HISTORIC PERSPECTIVE

Marshall BJ. The Campylobacter pylori story. Scand J Gastroenterol Suppl 1988;146:58-66.

Robey-Cafferty SS, Ro JY, Cleary KR. The prevalence of Campylobacter pylori in gastric biopsies from cancer patients. Mod Pathol 1989 Sep;2(5):473-6.

## CLINICAL TRIALS

Gad A, Dobrilla G. Campylobacter pylori and non-ulcer dyspepsia. 1. The final results of a double-blind multicentre trial for treatment with pirenzepine in Italy. Scand J Gastroenterol Suppl 1989;167:39-43.

Gill HH, Desai HG, Mehta PR, Ranganathan S, Kalro RH, Murti PK, Prabhu SR. Mono and dual therapy for Helicobacter pylori associated gastritis. J Assoc Physicians India 1991 Oct;39(10):743-5.

Goodwin CS, Marshall BJ, Blincow ED, Wilson DH, Blackbourn S, Phillips M. Prevention of nitroimidazole resistance in Campylobacter pylori by coadministration of colloidal bismuth subcitrate: clinical and in vitro studies. J Clin Pathol 1988 Feb;41(2):207-10.

Hosking SW, Ling TK, Yung MY, Cheng A, Chung SC, Leung JW, Li AK. Randomised controlled trial of short term treatment to eradicate Helicobacter pylori in patients with duodenal ulcer. BMJ 1992 Aug 29;305(6852):502-4. Comment in: BMJ 1992 Oct 31;305(6861):1094-5.

Hui WM, Lam SK, Ho J, Ng I, Lau WY, Branicki FJ, Lai CL, Lok AS, Ng MM, Fok J, et al. Effect of sucralfate and cimetidine on duodenal ulcer-associated antral gastritis and Campylobacter pylori. Am J Med 1989 Jun 9;86(6A):60-5.

Loffeld RJ, Potters HV, Stobberingh E, Flendrig JA, van Spreeuwel JP, Arends JW. Campylobacter associated gastritis in patients with non-ulcer dyspepsia: a double blind placebo controlled trial with colloidal bismuth subcitrate. Gut 1989 Sep; 30(9):1206-12. Comment in: Gut 1990 Apr;31(4): 481-2.

## DIAGNOSIS

Abb J, Striegel K, Fruhmorgen P. [Detection of antibodies to Helicobacter pylori with the immunoenzyme test and indirect immunofluorescence]. Leber Magen Darm 1990 Sep;20(5):224-30. (Ger).

Allmendinger G, Munch E, Guffarth G, Jetter E, Thomas F, Schmid E. [The urease rapid test (CLO test). Attempt at statistical analysis for the evaluation of Campylobacter colonization in the gastric antrum]. Schweiz Rundsch Med Prax 1990 Mar 27;79(13):389-90. (Ger).

Andreica V, Dumitrascu D, Sasca N, Toganel E, Suciu A, Draghici A, Pascu O, Sasca C, Suciu M, Andreica M, et al. Helicobacter-like organisms in gastroduodenal diseases. Gastroenterol Clin Biol 1990;14(5):437-41.

Asaka M, Kimura T, Kudo M, Takeda H, Mitani S, Miyazaki T, Miki K, Graham DY. Relationship of Helicobacter pylori to serum pepsinogens in an asymptomatic Japanese population. Gastroenterology 1992 Mar;102(3):760-6.

Ayyagari A, Ray P, Kochhar R, Bhasin D, Siddeshi ER, Singh K, Malik AK, Mehta SK. Evaluation of different methods for detection of Helicobacter pylori in patients with gastric disease. Indian J Med Res 1990 Mar;91:126-8.

Bateson MC. Cigarette smoking and Helicobacter pylori infection. Postgrad Med J 1993 Jan;69(807):41-4.

Berstad K, Wilhelmsen I, Berstad A. Biometric evaluation of gastric urease activity in man. Scand J Gastroenterol 1992 Nov;27(11):977-83.

Bolton FJ, Hutchinson DN. Evaluation of three Campylobacter pylori antigen preparations for screening sera from patients undergoing endoscopy. J Clin Pathol 1989 Jul;42(7):723-6.

Bornschein W, Bauernfeind A, Heilmann KL. [A rapid urease test in Campylobacter pylori colonization of the gastric mucosa]. Gastroenterol J 1989;49(2):54-8. (Ger).

Borody TJ, Brandl S, Andrews P, Jankiewicz E, Ostapowicz N. Helicobacter pylori-negative gastric ulcer. Am J Gastroenterol 1992 Oct;87(10):1403-6.

Borsch G, Adamek R, Sandmann M, Wegener M, Schmidt G, Leverkus F, Reitemeyer E. Comparison of biopsy urease test and histologic examination for detection of Campylobacter pylori in duodenal, antral and fundic biopsies. Hepatogastroenterology 1987 Oct;34(5):236-41.

Borsch G, Mai U, Reitemeyer E, Leverkus F, Opferkuch W. [Campylobacter pylori: clinical correlations and prospective comparative studies of various diagnostic techniques]. Immun Infekt 1989 Jun;17(3):83-90. (Ger).

Borsch G, Schmidt G, Wegener M, Sandmann M, Adamek R, Leverkus F, Reitemeyer E. Campylobacter pylori: prospective analysis of clinical and histological factors associated with colonization of the upper gastrointestinal tract. Eur J Clin Invest 1988 Apr;18(2):133-8.

Caselli M, Trevisani L, Pazzi P, Stabellini G, Lucio T. Suggestions for the rapid diagnosis of Campylobacter pylori infection in endoscopic settings [letter]. Endoscopy 1989 Mar;21(2):110-1.

Chaloupka JC, Gay BB Jr, Caplan D. Campylobacter gastritis simulating Menetrier's disease by upper gastrointestinal radiography. Pediatr Radiol 1990;20(3):200-1.

Ching CK, Thompson S, Buxton C, Holgate C, Holmes GK. Evaluation of a commercial enzyme-linked immunosorbent assay (ELISA) kit for serological diagnosis of Helicobacter pylori infection in a group of non-ulcer dyspepsia sufferers. Postgrad Med J 1993;69(812):456-60.

Chodos JE, Dworkin BM, Smith F, Van Horn K, Weiss L, Rosenthal WS. Campylobacter pylori and gastroduodenal disease: a prospective endoscopic study and comparison of diagnostic tests. Am J Gastroenterol 1988 Nov;83(11):1226-30.

Conti-Nibali S, Baldari S, Vitulo F, Sferlazzas C, Russo E, Tedeschi A, Bonanno N, Magazzu G. The 14CO2 urea breath test for Helicobacter pylori infection [letter]. J Pediatr Gastroenterol Nutr 1990 Aug;11(2):284-5.

Covacci A, Censini S, Bugnoli M, Petracca R, Burroni D, Macchia G, Massone A, Papini E, Xiang Z, Figura N, et al. Molecular characterization of the 128-kDa immunodominant antigen of Helicobacter pylori associated with cytotoxicity and duodenal ulcer. Proc Natl Acad Sci U S A 1993 Jun 15;90(12):5791-5.

Czinn SJ, Carr HS, Speck WT. Diagnosis of gastritis caused by Helicobacter pylori in children by means of an ELISA. Rev Infect Dis 1991 Jul-Aug;13 Suppl 8:S700-3.

Debongnie JC, Beyaert C, Legros G. Touch cytology, a useful diagnostic method for diagnosis of upper gastrointestinal tract infections. Dig Dis Sci 1989 Jul;34(7):1025-7.

Debongnie JC, Delmee M, Mainguet P, Beyaert C, Haot J, Legros G. Cytology: a simple, rapid, sensitive method in the diagnosis of Helicobacter pylori. Am J Gastroenterol 1992 Jan;87(1):20-3.

Debongnie JC, Donnay M. The role of endoscopy in the diagnosis of infections of the upper gastrointestinal tract. Acta Endosc 1991;21(1):11-7.

Debongnie JC, Pauwels S, Raat A, de Meeus Y, Haot J, Mainguet P. Quantification of Helicobacter pylori infection in gastritis and ulcer disease using a simple and rapid carbon-14-urea breath test. J Nucl Med 1991 Jun;32(6):1192-8.

Delvaux M, Escourrou J. Endoscopy in peptic ulcer disease: diagnosis, prognosis and management. Endoscopy 1992 Jan-Feb;24(1-2):41-4.

Dye KR, Marshall BJ, McCallum RW. Gastritis, ulcers, and Helicobacter pylori. Physician Assist 1991 May;15(5):95-101.

el Nujumi AM, Dorrian CA, Chittajallu RS, Neithercut WD, McColl KE. Effect of inhibition of Helicobacter pylori urease activity by acetohydroxamic acid on serum gastrin in duodenal ulcer subjects. Gut 1991 Aug;32(8):866-70.

Elta GH, Murphy R, Behler EM, Barnett JL, Nostrant TT, Kern S, Appelman H. Campylobacter pylori in patients with dyspeptic symptoms and endoscopic evidence of erosion(s). Am J Gastroenterol 1989 Jun;84(6):643-6.

Engstrand L, Nguyen AM, Graham DY, el-Zaatari FA. Reverse transcription and polymerase chain reaction amplification of rRNA for detection of Helicobacter species. J Clin Microbiol 1992 Sep;30(9):2295-301.

Evans DJ Jr, Evans DG, Smith KE, Graham DY. Serum antibody responses to the N-acetylneuraminyllactose binding hemagglutinin of Campylobacter pylori. Infect Immun 1989 Mar; 57(3):664-7.

Faulde M, Putzker M, Mertes T, Sobe D. Evaluation of an immunofluorescence assay for specific detection of immunoglobulin G antibodies directed against Helicobacter pylori, and antigenic cross reactivity between H. pylori and Campylobacter jejuni. J Clin Microbiol 1991 Feb;29(2):323-7.

Feldman M. Seminars in gastrointestinal disease. Semin Gastrointest Dis 1993;4(1):1.

Fernando D. Helicobacter pylori and peptic ulcer disease in Sri Lanka. Ceylon Med J 1992 Mar; 37(1):15-7.

Fiedorek SC, Casteel HB, Pumphrey CL, Evans DJ Jr, Evans DG, Klein PD, Graham DY. The role of Helicobacter pylori in recurrent, functional abdominal pain in children. Am J Gastroenterol 1992 Mar;87(3):347-9.

Glassman MS, Dallal S, Berezin SH, Bostwick HE, Newman LJ, Perez-Perez GI, Blaser MJ. Helicobacter pylori-related gastroduodenal disease in children. Diagnostic utility of enzyme-linked immunosorbent assay. Dig Dis Sci 1990 Aug; 35(8):993-7.

Goodwin CS, Armstrong JA, Marshall BJ. Campylobacter pyloridis, gastritis, and peptic ulceration. J Clin Pathol 1986 Apr;39(4):353-65.

Graham DY. Gastroenterology today and tomorrow. Am J Gastroenterol 1992 May;87(5):559-61.

Graham DY. Helicobacter pylori and the endoscopist: whether to diagnose [editorial]. Gastrointest Endosc 1991 Sep-Oct;37(5):577-9. Comment on: Gastrointest Endosc 1991 Sep-Oct;37(5):550-1.

Graham DY, Go MF. Helicobacter pylori: current status. Gastroenterology 1993 Jul;105(1):279-82.

Graham DY, Klein PD. What you should know about the methods, problems, interpretations, and uses of urea breath tests [editorial]. Am J Gastroenterol 1991 Sep;86(9):1118-22.

Graham DY, Klein PD, Evans DG, Evans DJ Jr, Alpert LC, Opekun A, Jerdack GR, Morgan DR. Simple noninvasive method to test efficacy of drugs in the eradication of Helicobacter pylori infection: the example of combined bismuth subsalicylate and nitrofurantoin. Am J Gastroenterol 1991 Sep;86(9): 1158-62.

Graham DY, Malaty HM, Evans DG, Evans DJ Jr, Klein PD, Adam E. Epidemiology of Helicobacter pylori in an asymptomatic population in the United States. Effect of age, race, and socioeconomic status. Gastroenterology 1991 Jun;100(6):1495-501.

Graham DY, Michaletz PA. Should I search for Campylobacter pylori in my patients? Much ado about not much? Am J Gastroenterol 1988 May; 83(5):481-3.

Gryboski JD. Peptic ulcer disease in children. Med Clin North Am 1991 Jul;75(4):889-902.

Hakkinen I, Nevalainen T, Paasivuo R, Partanen P, Seppala K, Sipponen P. Gastric cancer associated structure in mucus glycoproteins shown as a clinically useful marker. Gut 1991 Dec;32(12): 1465-9. Comment in: Gut 1992 Dec;33(12):1681.

Heenan A. Breath tester. Nurs Times 1989 Sep 6-12; 85(36):23.

Henze E, Malfertheiner P, Clausen M, Burkhardt H, Adam WE. Validation of a simplified carbon 14 urea breath test for routine use for detecting Heliobacter pylori noninvasively. J Nucl Med 1990 Dec;31(12):1940-4.

Hirschl AM, Hirschl MM, Berger J, Rotter ML. Evaluation of a commercial latex test for serological diagnosis of Helicobacter pylori infection in treated and untreated patients. Eur J Clin Microbiol Infect Dis 1991 Nov;10(11):971-4.

Hirschl AM, Rathbone BJ, Wyatt JI, Berger J, Rotter ML. Comparison of ELISA antigen preparations alone or in combination for serodiagnosing Helicobacter pylori infections. J Clin Pathol 1990 Jun;43(6):511-3.

Hoek FJ, Noach LA, Rauws EA, Tytgat GN. Evaluation of the performance of commercial test kits for detection of Helicobacter pylori antibodies in serum. J Clin Microbiol 1992 Jun;30(6):1525-8.

Hoshina S, Kahn SM, Jiang W, Green PH, Neu HC, Chin N, Morotomi M, LoGerfo P, Weinstein IB. Direct detection and amplification of Helicobacter pylori ribosomal 16S gene segments from gastric endoscopic biopsies. Diagn Microbiol Infect Dis 1990 Nov-Dec;13(6):473-9.

Husebye E, O'Leary D, Skar V, Melby K. How reliable are the 14C-urea breath test and specific serology for the detection of gastric Campylobacter? Scand J Gastroenterol 1990 Jul;25(7):725-30.

Jankowski J, Bridges AB, Scott N, Wormsley KG, Belch JJ. Circulating free radical markers and peptic ulcer disease. Eur J Gastroenterol Hepatol 1991;3(11):823-8.

Karnes WE Jr, Samloff IM, Siurala M, Kekki M, Sipponen P, Kim SW, Walsh JH. Positive serum antibody and negative tissue staining for Helicobacter pylori in subjects with atrophic body gastritis. Gastroenterology 1991 Jul;101(1):167-74. Comment in: Gastroenterology 1992 Feb;102(2): 744-5.

Khanna MU, Kochar N, Nair NG, Bhatia SJ, Abraham P. Evaluation of a modified medium for the one hour urease test for Helicobacter pylori infection. Indian J Gastroenterol 1990 Jul;9(3):219-20.

Koch HK, Baumert B, Koch U, Oehlert M, Oehlert W. Prevalence of Campylobacter pylori as demonstrated by histology or CLO-test in different types of gastritis. A study in 5 clinically predefined groups of patients. Pathol Res Pract 1990 Feb; 186(1):154-8.

Labenz J, Gyenes E, Ruhl G, Peitz U, Borsch G. [Diagnosis of Helicobacter pylori colonization of the gastric mucosa. A prospective comparative study of direct test methods and validation of a new urease test]. Med Klin 1991 Sep 15;86(9):461-4. (Ger).

Labenz J, Gyenes E, Ruhl GH, Wieczorek M, Hluchy J, Borsch G. [Is Helicobacter pylori gastritis a macroscopic diagnosis?]. Dtsch Med Wochenschr 1993 Feb 12;118(6):176-80. (Ger).

Lin SK, Lambert JR, Schembri M, Nicholson L, Finlay M, Wong C, Coulepis A. A comparison of diagnostic tests to determine Helicobacter pylori infection. J Gastroenterol Hepatol 1992 Mar-Apr; 7(2):203-9.

Loffeld RJ, Stobberingh E, Flendrig JA, van Spreeuwel JP, Arends JW. Diagnostic value of an immunoassay to detect anti Campylobacter pylori antibodies in non-ulcer dyspepsia. Lancet 1989 May 27;1(8648):1182-5. Comment in: Lancet 1989 Aug 26;2(8661):505; Lancet 1989 Sep 2;2(8662): 569-70.

Loffeld RJ, Stobberingh E, Van Spreeuwel JP, Flendrig JA, Arends JW. The prevalence of anti-Helicobacter (Campylobacter) pylori antibodies in patients and healthy blood donors. J Med Microbiol 1990 Jun;32(2):105-9.

Lotterer E, Ludtke FE, Tegeler R, Lepsien G, Bauer FE. The 13C-urea breath test--detection of Helicobacter pylori infection in patients with partial gastrectomy. Z Gastroenterol 1993 Feb;31(2): 115-9.

Lotterer E, Ramaker J, Ludtke FE, Tegeler R, Geletneky JV, Bauer FE. The simplified 13C-urea breath test--one point analysis for detection of Helicobacter pylori infection. Z Gastroenterol 1991 Nov;29(11):590-4.

Marshall BJ, McGechie DB, Francis GJ, Utley PJ. Pyloric campylobacter serology [letter]. Lancet 1984 Aug 4;2(8397):281.

Marshall BJ, Plankey MW, Hoffman SR, Boyd CL, Dye KR, Frierson HF Jr, Guerrant RL, McCallum RW. A 20-minute breath test for helicobacter pylori. Am J Gastroenterol 1991 Apr;86(4):438-45.

Marshall BJ, Surveyor I. Carbon-14 urea breath test for the diagnosis of Campylobacter pylori associated gastritis. J Nucl Med 1988 Jan;29(1):11-6.

Marshall BJ, Warren JR, Francis GJ, Langton SR, Goodwin CS, Blincow ED. Rapid urease test in the management of Campylobacter pyloridis-associated gastritis. Am J Gastroenterol 1987 Mar;82(3): 200-10.

McKinlay AW, Upadhyay R, Russell RI. Campylobacter pylori and gastroduodenal disease. Is there a relationship? Postgrad Med 1989 Nov 15; 86(7):31-3, 37-8, 41.

McNulty CA, Dent JC, Uff JS, Gear MW, Wilkinson SP. Detection of Campylobacter pylori by the biopsy urease test: an assessment in 1445 patients. Gut 1989 Aug;30(8):1058-62.

Meran JG, Wagner S, Hotz J, Manns M. [Differential diagnosis of peptic ulcer]. Wien Med Wochenschr 1992;142(8-9):154-61. (Ger).

Mertz H, Lafrance N, Kafonek D, Yardley J, Hendrix T. Diagnosis of Campylobacter pylori gastritis. Dig Dis Sci 1991 Jan;36(1):1-4.

Meyer-Wyss B. [Helicobacter pylori and ulcer disease: significance for diagnosis and therapy]. Schweiz Rundsch Med Prax 1991 Oct 15;80(42):1132-4. (Ger).

Millar MR, Pike J. Bactericidal activity of antimicrobial agents against slowly growing Helicobacter pylori. Antimicrob Agents Chemother 1992 Jan;36(1): 185-7.

Misra SP, Dwivedi M, Misra V, Gupta SC. Imprint cytology--a cheap, rapid and effective method for diagnosing Helicobacter pylori. Postgrad Med J 1993 Apr;69(810):291-5.

Mobley HL, Cortesia MJ, Rosenthal LE, Jones BD. Characterization of urease from Campylobacter pylori. J Clin Microbiol 1988 May;26(5):831-6.

Montgomery EA, Martin DF, Peura DA. Rapid diagnosis of Campylobacter pylori by Gram's stain. Am J Clin Pathol 1988 Nov;90(5):606-9.

Morotomi M, Hoshina S, Green P, Neu HC, LoGerfo P, Watanabe I, Mutai M, Weinstein IB. Oligonucleotide probe for detection and identification of Campylobacter pylori. J Clin Microbiol 1989 Dec;27(12):2652-5.

Moss CW, Lambert-Fair MA, Nicholson MA, Guerrant GO. Isoprenoid quinones of Campylobacter cryaerophila, C. cinaedi, C. fennelliae, C. hyointestinalis, C. pylori, and C. upsaliensis. J Clin Microbiol 1990 Feb;28(2):395-7.

Moss SF, Legon S, Bishop AE, Polak JM, Calam J. Effect of Helicobacter pylori on gastric somatostatin in duodenal ulcer disease. Lancet 1992 Oct 17; 340(8825):930-2.

Musgrove C, Bolton FJ, Krypczyk AM, Temperley JM, Cairns SA, Owen WG, Hutchinson DN. Campylobacter pylori: clinical, histological, and serological studies. J Clin Pathol 1988 Dec;41(12): 1316-21.

Nanivadekar SA, Bhat PP, Sawant PD, Bichile LS, Shroff CP, Dhabar BN, Abhyankar NY, Kamble PJ. Rapid diagnostic test of Campylobacter pylori infection in patients of gastritis, duodenal ulcer and gastric ulcer. A study of 100 cases. J Assoc Physicians India 1989 May;37(5):307-10.

Negishi M, Nakamura M, Keshi H, Sakurai T, Koido S, Katou S, Inadama E, Hino I, Shibata H, Yamane T, et al. [An efficient method for quantification of Helicobacter pylori in biopsy specimen using PCR]. Nippon Shokakibyo Gakkai Zasshi 1993 Feb;90(2): 97-104. (Jpn).

Neithercut WD, Milne A, Chittajallu RS, el Nujumi AM, McColl KE. Detection of Helicobacter pylori infection of the gastric mucosa by measurement of gastric aspirate ammonium and urea concentrations. Gut 1991 Sep;32(9):973-6.

Novis BH, Gabay G, Leichtmann G, Peri M, Bernheim J, Pomeranz IS. Two point analysis 15-minute 14C-urea breath test for diagnosing Helicobacter pylori infection. Digestion 1991;50(1):16-21.

Ohkusa T, Okayasu I, Yamada M, Hosoi H, Yamanaka A, Fujiki K, Tamura Y, Takashimizu I, Sasabe M, Yamamoto N, et al. A high frequency of detection of Helicobacter pylori in whitish exudate of gastric ulcer. J Clin Gastroenterol 1991 Dec;13(6):649-55.

Ormand JE, Talley NJ, Carpenter HA, Shorter RG, Conley CR, Wilson WR, DiMagno EP, Zinsmeister AR, Phillips SF. [14C]urea breath test for diagnosis of Helicobacter pylori. Dig Dis Sci 1990 Jul;35(7): 879-84.

Perez-Perez GI, Dworkin BM, Chodos JE, Blaser MJ. Campylobacter pylori antibodies in humans. Ann Intern Med 1988 Jul 1;109(1):11-7.

Phillips K, Munster DJ, Allardyce RA, Bagshaw PF. Antibacterial action of the urease inhibitor acetohydroxamic acid on Helicobacter pylori. J Clin Pathol 1993 Apr;46(4):372-3.

Pinto MM, Meriano FV, Afridi S, Taubin HL. Cytodiagnosis of Campylobacter pylori in Papanicolaou-stained imprints of gastric biopsy specimens. Acta Cytol 1991 Mar-Apr;35(2):204-6.

Przyklenk B, Bauernfeind A, Bornschein W, Emminger G, Heilmann K, Schweighart S. The role of Campylobacter (Helicobacter) pylori in disorders of the gastrointestinal tract. Infection 1990 Jan-Feb; 18(1):3-7.

Queiroz DM, Mendes EN, Rocha GA, Barbosa AJ, Carvalho AS, Cunha-Melo JR. Histamine concentration of gastric mucosa in Helicobacter pylori positive and negative children. Gut 1991 May;32(5):464-6.

Queiroz DM, Mendes EN, Rocha GA, Cunha-Melo JR, Barbosa AJ, Lima GF Jr, Oliveira CA. Helicobacter pylori and gastric histamine concentrations. J Clin Pathol 1991 Jul;44(7):612-3. Comment in: J Clin Pathol 1992 Feb;45(2):182-3.

Rauws EA. Detecting Campylobacter pylori with the 13C- and 14C-urea breath test. Scand J Gastroenterol Suppl 1989;160:25-6.

Rauws EA, Royen EA, Langenberg W, Woensel JV, Vrij AA, Tytgat GN. 14-C urea breath test in C pylori gastritis. Gut 1989 Jun;30(6):798-803. Comment in: Gut 1989 Nov;30(11):1656-7.

Rauws EA, Van Royen EA, Tytgat GNJ. 14-C urea breath test as a method to detect Campylobacter pylori colonization. Gastroenterol Clin Biol 1989;13(1 Pt 1):42B-43B.

Rocha GA, Queiroz DM, Mendes EN, de Carvalho AS, de Oliveira AM, de Moura SB. Serodiagnosis of Helicobacter pylori infection in children by an indirect immunofluorescence test. J Pediatr Gastroenterol Nutr 1993 Apr;16(3):247-51.

Sang FC, Lule GN, Ogutu EO. Evaluation of culture media and antimicrobial susceptibility of Helicobacter pylori. East Afr Med J 1991 Nov; 68(11):865-8.

Schnell GA, Schubert TT. Usefulness of culture, histology, and urease testing in the detection of Campylobacter pylori. Am J Gastroenterol 1989 Feb;84(2):133-7. Comment in: Am J Gastroenterol 1990 Mar;85(3):325-6.

Schubert TT, Schnell GA. Prevalence of Campylobacter pylori in patients undergoing upper endoscopy. Am J Gastroenterol 1989 Jun;84(6):637-42.

Sheurer U, Merki H. [Diagnosis of peptic ulcer disease]. Ther Umsch 1992 Nov;49(11):735-42. (Ger).

Simor AE, Cooter NB, Low DE. Comparison of four stains and a urease test for rapid detection of Helicobacter pylori in gastric biopsies. Eur J Clin Microbiol Infect Dis 1990 May;9(5):350-2.

Slomiany BL, Murty VL, Piotrowski J, Morita M, Slomiany A. Glycosulfatase activity of Helicobacter pylori towards gastric sulfomucin: effect of nitecapone. J Physiol Pharmacol 1993 Mar;44(1): 7-16.

Sobala GM, Crabtree JE, Pentith JA, Rathbone BJ, Shallcross TM, Wyatt JI, Dixon MF, Heatley RV, Axon AT. Screening dyspepsia by serology to Helicobacter pylori. Lancet 1991 Jul 13; 338(8759):94-6. Comment in: Lancet 1991 Aug 10; 338(8763):393-4; Lancet 1991 Oct 26;338(8774): 1087-8.

Sonnenberg A, Townsend WF. Testing for Helicobacter pylori in the diagnosis of Zollinger-Ellison syndrome. Am J Gastroenterol 1991 May;86(5): 606-8.

Spiro HM. About this issue. J Clin Gastroenterol 1993;17(1):1.

Spiro HM. Some perspectives on peptic ulcer. Med Clin North Am 1991 Jul;75(4):941-6.

Stein HJ, Smyrk TC, DeMeester TR, Rouse J, Hinder RA. Clinical value of endoscopy and histology in the diagnosis of duodenogastric reflux disease. Surgery 1992 Oct;112(4):796-803; discussion 803-4.

Stubbs JB, Marshall BJ. Radiation dose estimates for the carbon-14-labeled urea breath test. J Nucl Med 1993 May;34(5):821-5.

Sugiyama T, Imai K, Yoshida H, Takayama Y, Yabana T, Yokota K, Oguma K, Yachi A. A novel enzyme immunoassay for serodiagnosis of Helicobacter pylori infection. Gastroenterology 1991 Jul;101(1): 77-83.

Surveyor I, Goodwin CS, Mullan BP, Geelhoed E, Warren JR, Murray RN, Waters TE, Sanderson CR. The 14C urea breath test for the detection of gastric Campylobacter pylori infection. Med J Aust 1989 Oct 16;151(8):435-9.

Taha AS, Boothman P, Nakshabendi I, Reid J, Morran C, Gemmell CG, Lee FD, Sturrock RD, Russell RI. Diagnostic tests for Helicobacter pylori: comparison and influence of non-steroidal anti-inflammatory drugs. J Clin Pathol 1992 Aug;45(8): 709-12.

Takayasu H, Harasawa S, Miwa T, Yamada Y. [Investigation of gastric function and prevalence of Helicobacter pylori in non-ulcer dyspepsia]. Nippon Shokakibyo Gakkai Zasshi 1993 Apr;90(4):743-54. (Jpn).

Talley NJ. Nonulcer dyspepsia: current approaches to diagnosis and management. Am Fam Physician 1993 May 1;47(6):1407-16.

Talley NJ. Non-ulcer dyspepsia: myths and realities. Aliment Pharmacol Ther 1991;5 Suppl 1:145-62.

Talley NJ. The role of Helicobacter pylori in nonulcer dyspepsia. A debate--against. Gastroenterol Clin North Am 1993 Mar;22(1):153-67.

Talley NJ, Kost L, Haddad A, Zinsmeister AR. Comparison of commercial serological tests for detection of Helicobacter pylori antibodies. J Clin Microbiol 1992 Dec;30(12):3146-50.

Talley NJ, Newell DG, Ormand JE, Carpenter HA, Wilson WR, Zinsmeister AR, Perez-Perez GI, Blaser MJ. Serodiagnosis of Helicobacter pylori: comparison of enzyme-linked immunosorbent assays. J Clin Microbiol 1991 Aug;29(8):1635-9.

Tytgat GN, Rauws EA, de Koster EH. Campylobacter pylori. Diagnosis and treatment. J Clin Gastroenterol 1989;11 Suppl 1:S49-53.

Vaira D, Holton J, Ainley CC, Lonedi M, Romanos A, Maldini M, Gandolfi L. The source of Campylobacter pylori. Biomed Pharmacother 1989;43(6):447-50.

Vaira D, Holton J, Cairns SR, Falzon M, Polydorou A, Dowsett JF, Salmon PR. Antibody titres to Campylobacter pylori after treatment for gastritis. BMJ 1988 Aug 6;297(6645):397.

Van Horn KG, Dworkin BM. Direct gram stain and urease test to detect Helicobacter pylori. Diagn Microbiol Infect Dis 1990 Nov-Dec;13(6):449-52.

Veldhuyzen van Zanten SJ, Tytgat KM, Hollingsworth J, Jalali S, Rshid FA, Bowen BM, Goldie J, Goodacre RL, Riddell RH, Hunt RH. 14C-urea breath test for the detection of Helicobacter pylori. Am J Gastroenterol 1990 Apr;85(4):399-403.

Von Wulffen H, Grote HJ. Enzyme linked immunosorbent assay for detection of immunoglobulin A and G antibodies to

Campylobacter pylori. Eur J Clin Microbiol Infect Dis 1988;7(4):559-65.

Von Wulffen H, Grote HJ, Gatermann S, Loning T, Berger B, Buhl C. Immunoblot analysis of immune response to Campylobacter pylori and its clinical associations. J Clin Pathol 1988 Jun;41(6):653-9.

Wang JT, Lin JT, Sheu JC, Yang JC, Chen DS, Wang TH. Detection of Helicobacter pylori in gastric biopsy tissue by polymerase chain reaction. Eur J Clin Microbiol Infect Dis 1993 May;12(5):367-71.

Westblom TU, Lagging LM, Midkiff BR, Czinn SJ. Evaluation of QuickVue, a rapid enzyme immunoassay test for the detection of serum antibodies to Helicobacter pylori. Diagn Microbiol Infect Dis 1993 May-Jun;16(4):317-20.

Westblom TU, Madan E, Gudipati S, Midkiff BR, Czinn SJ. Diagnosis of Helicobacter pylori infection in adult and pediatric patients by using Pyloriset, a rapid latex agglutination test. J Clin Microbiol 1992 Jan;30(1):96-8.

Westblom TU, Phadnis S, Yang P, Czinn SJ. Diagnosis of Helicobacter pylori infection by means of a polymerase chain reaction assay for gastric juice aspirates. Clin Infect Dis 1993 Mar;16(3):367-71.

Wilairatana S, Israsena S, Kladchareon N. Diagnostic approaches and treatment of peptic ulcer at Chulalongkorn University Hospital, Bangkok. Gastroenterol Jpn 1991 Jul;26 Suppl 3:275-7.

Workshop on gastro-enterology. S Afr Med J 1993; 83(5):373-4.

Yokota K, Oguma K, Yoshida H, Takayama Y, Sugiyama T, Yabana T, Yachi A, Kurebayashi Y, Isogai H, Isogai E. [Comparison of three methods for detecting Campylobacter pylori and measurement of human antibody titers against the whole organisms]. Kansenshogaku Zasshi 1990 May;64(5):597-603. (Jpn).

Zeidler H, Munzel P. NSAIDs: new approaches to limiting gastropathy. Scand J Rheumatol Suppl 1989;78:18-23; discussion 30-2.

## DIAGNOSTIC TESTS

Abb J, Striegel K, Fruhmorgen P. [Detection of antibodies to Helicobacter pylori with the immunoenzyme test and indirect immunofluorescence]. Leber Magen Darm 1990 Sep;20(5):224-30. (Ger).

Blaser MJ, Olivares A, Taylor DN, Cornblath DR, McKhann GM. Campylobacter serology in patients with Chinese paralytic syndrome [letter]. Lancet 1991 Aug 3;338(8762):308.

Cave DR, Vargas M. Effect of a Campylobacter pylori protein on acid secretion by parietal cells. Lancet 1989 Jul 22;2(8656):187-9.

Debongnie JC, Delmee M, Mainguet P, Beyaert C, Haot J, Legros G. Cytology: a simple, rapid, sensitive method in the diagnosis of Helicobacter pylori. Am J Gastroenterol 1992 Jan;87(1):20-3.

Debongnie JC, Donnay M. The role of endoscopy in the diagnosis of infections of the upper gastrointestinal tract. Acta Endosc 1991;21(1):11-7.

Dill S, Payne-James JJ, Misiewicz JJ, Grimble GK, McSwiggan D, Pathak K, Wood AJ, Scrimgeour CM, Rennie MJ. Evaluation of 13C-urea breath test in the detection of Helicobacter pylori and in monitoring the effect of tripotassium dicitratobismuthate in non-ulcer dyspepsia. Gut 1990 Nov;31(11):1237-41. Comment in: Gut 1991 May;32(5):551-2.

el Nujumi AM, Dorrian CA, Chittajallu RS, Neithercut WD, McColl KE. Effect of inhibition of Helicobacter pylori urease activity by acetohydroxamic acid on serum gastrin in duodenal ulcer subjects. Gut 1991 Aug;32(8):866-70.

Evans DJ Jr, Evans DG, Smith KE, Graham DY. Serum antibody responses to the N-acetylneuraminyllactose binding hemagglutinin of Campylobacter pylori. Infect Immun 1989 Mar; 57(3):664-7.

Fernando D. Helicobacter pylori and peptic ulcer disease in Sri Lanka. Ceylon Med J 1992 Mar; 37(1):15-7.

Gnarpe H, Unge P, Blomqvist C, Makitalo S. Campylobacter pylori in Swedish patients referred for gastroscopy. APMIS 1988 Feb;96(2):128-32.

Graham DY, Go MF. Helicobacter pylori: current status. Gastroenterology 1993 Jul;105(1):279-82.

Henze E, Malfertheiner P, Clausen M, Burkhardt H, Adam WE. Validation of a simplified carbon 14 urea breath test for routine use for detecting Heliobacter pylori noninvasively. J Nucl Med 1990 Dec;31(12):1940-4.

Hirschl AM, Hirschl MM, Berger J, Rotter ML. Evaluation of a commercial latex test for serological diagnosis of Helicobacter pylori infection in treated and untreated patients. Eur J Clin Microbiol Infect Dis 1991 Nov;10(11):971-4.

Hirschl AM, Rathbone BJ, Wyatt JI, Berger J, Rotter ML. Comparison of ELISA antigen preparations alone or in combination for serodiagnosing Helicobacter pylori infections. J Clin Pathol 1990 Jun;43(6):511-3.

Holcombe C, Omotara BA, Eldridge J, Jones DM. H. pylori, the most common bacterial infection in Africa: a random serological study. Am J Gastroenterol 1992 Jan;87(1):28-30.

Hook-Nikanne J, Sistonen P, Kosunen TU. Effect of ABO blood group and secretor status on the frequency of Helicobacter pylori antibodies. Scand J Gastroenterol 1990 Aug;25(8):815-8.

Hoshina S, Kahn SM, Jiang W, Green PH, Neu HC, Chin N, Morotomi M, LoGerfo P, Weinstein IB. Direct detection and amplification of Helicobacter pylori ribosomal 16S gene segments from gastric endoscopic biopsies. Diagn Microbiol Infect Dis 1990 Nov-Dec;13(6):473-9.

Husebye E, O'Leary D, Skar V, Melby K. How reliable are the 14C-urea breath test and specific serology for the detection of gastric Campylobacter? Scand J Gastroenterol 1990 Jul;25(7):725-30.

Jankowski J, Bridges AB, Scott N, Wormsley KG, Belch JJ. Circulating free radical markers and peptic ulcer disease. Eur J Gastroenterol Hepatol 1991;3(11):823-8.

Khanna MU, Kochar N, Nair NG, Bhatia SJ, Abraham P. Evaluation of a modified medium for the one hour urease test for Helicobacter pylori infection. Indian J Gastroenterol 1990 Jul;9(3):219-20.

Koch HK, Baumert B, Koch U, Oehlert M, Oehlert W. Prevalence of Campylobacter pylori as demonstrated by histology or CLO-test in different types of gastritis. A study in 5 clinically predefined groups of patients. Pathol Res Pract 1990 Feb; 186(1):154-8.

Lin SK, Lambert JR, Schembri M, Nicholson L, Finlay M, Wong C, Coulepis A. A comparison of diagnostic tests to determine Helicobacter pylori infection. J Gastroenterol Hepatol 1992 Mar-Apr; 7(2):203-9.

Loffeld RJ, Stobberingh E, Flendrig JA, van Spreeuwel JP, Arends JW. Diagnostic value of an immunoassay to detect anti Campylobacter pylori antibodies in non-ulcer dyspepsia. Lancet 1989 May 27;1(8648):1182-5. Comment in: Lancet 1989 Aug 26;2(8661):505; Lancet 1989 Sep 2;2(8662): 569-70.

Loffeld RJ, Stobberingh E, Van Spreeuwel JP, Flendrig JA, Arends JW. The prevalence of anti-Helicobacter (Campylobacter) pylori antibodies in patients and healthy blood donors. J Med Microbiol 1990 Jun;32(2):105-9.

Lotterer E, Ludtke FE, Tegeler R, Lepsien G, Bauer FE. The 13C-urea breath test--detection of Helicobacter pylori infection in patients with partial gastrectomy. Z Gastroenterol 1993 Feb;31(2): 115-9.

Lotterer E, Ramaker J, Ludtke FE, Tegeler R, Geletneky JV, Bauer FE. The simplified 13C-urea breath test--one point analysis for detection of Helicobacter pylori infection. Z Gastroenterol 1991 Nov;29(11):590-4.

Marshall BJ. Treatment strategies for Helicobacter pylori infection. Gastroenterol Clin North Am 1993 Mar;22(1):183-98.

McNulty CA, Dent JC, Uff JS, Gear MW, Wilkinson SP. Detection of Campylobacter pylori by the biopsy urease test: an assessment in 1445 patients. Gut 1989 Aug;30(8):1058-62.

Millar MR, Pike J. Bactericidal activity of antimicrobial agents against slowly growing Helicobacter pylori. Antimicrob Agents Chemother 1992 Jan;36(1): 185-7.

Misra SP, Dwivedi M, Misra V, Gupta SC. Imprint cytology--a cheap, rapid and effective method for diagnosing Helicobacter pylori. Postgrad Med J 1993 Apr;69(810):291-5.

Mobley HL, Cortesia MJ, Rosenthal LE, Jones BD. Characterization of urease from Campylobacter pylori. J Clin Microbiol 1988 May;26(5):831-6.

Morotomi M, Hoshina S, Green P, Neu HC, LoGerfo P, Watanabe I, Mutai M, Weinstein IB. Oligonucleotide probe for detection and identification of Campylobacter pylori. J Clin Microbiol 1989 Dec;27(12):2652-5.

Moss CW, Lambert-Fair MA, Nicholson MA, Guerrant GO. Isoprenoid quinones of Campylobacter cryaerophila, C. cinaedi, C. fennelliae, C. hyointestinalis, C. pylori, and C. upsaliensis. J Clin Microbiol 1990 Feb;28(2):395-7.

Musgrove C, Bolton FJ, Krypczyk AM, Temperley JM, Cairns SA, Owen WG, Hutchinson DN. Campylobacter pylori: clinical, histological, and serological studies. J Clin Pathol 1988 Dec;41(12): 1316-21.

Nanivadekar SA, Bhat PP, Sawant PD, Bichile LS, Shroff CP, Dhabar BN, Abhyankar NY, Kamble PJ. Rapid diagnostic test of Campylobacter pylori infection in patients of gastritis, duodenal ulcer and gastric ulcer. A study of 100 cases. J Assoc Physicians India 1989 May;37(5):307-10.

Negishi M, Nakamura M, Keshi H, Sakurai T, Koido S, Katou S, Inadama E, Hino I, Shibata H, Yamane T, et al. [An efficient method for quantification of Helicobacter pylori in biopsy specimen using PCR]. Nippon Shokakibyo Gakkai Zasshi 1993 Feb;90(2): 97-104. (Jpn).

Phillips K, Munster DJ, Allardyce RA, Bagshaw PF. Antibacterial action of the urease inhibitor acetohydroxamic acid on Helicobacter pylori. J Clin Pathol 1993 Apr;46(4):372-3.

Przyklenk B, Bauernfeind A, Bornschein W, Emminger G, Heilmann K, Schweighart S. The role of Campylobacter (Helicobacter) pylori in disorders of the gastrointestinal tract. Infection 1990 Jan-Feb; 18(1):3-7.

Queiroz DM, Mendes EN, Rocha GA, Cunha-Melo JR, Barbosa AJ, Lima GF Jr, Oliveira CA. Helicobacter pylori and gastric histamine concentrations. J Clin Pathol 1991 Jul;44(7):612-3. Comment in: J Clin Pathol 1992 Feb;45(2):182-3.

Rauws EA. Detecting Campylobacter pylori with the 13C- and 14C-urea breath test. Scand J Gastroenterol Suppl 1989;160:25-6.

Simor AE, Cooter NB, Low DE. Comparison of four stains and a urease test for rapid detection of Helicobacter pylori in gastric biopsies. Eur J Clin Microbiol Infect Dis 1990 May;9(5):350-2

Sobala GM, Crabtree JE, Pentith JA, Rathbone BJ, Shallcross TM, Wyatt JI, Dixon MF, Heatley RV, Axon AT. Screening dyspepsia by serology to Helicobacter pylori. Lancet 1991 Jul 13; 338(8759):94-6. Comment in: Lancet 1991 Aug 10; 338(8763):393-4; Lancet 1991 Oct 26;338(8774): 1087-8.

Sugiyama T, Imai K, Yoshida H, Takayama Y, Yabana T, Yokota K, Oguma K, Yachi A. A novel enzyme immunoassay for serodiagnosis of Helicobacter pylori infection. Gastroenterology 1991 Jul;101(1): 77-83.

Taha AS, Boothman P, Nakshabendi I, Reid J, Morran C, Gemmell CG, Lee FD, Sturrock RD, Russell RI. Diagnostic tests for Helicobacter pylori: comparison and influence of non-steroidal anti-inflammatory drugs. J Clin Pathol 1992 Aug;45(8): 709-12.

Von Wulffen H, Grote HJ, Gatermann S, Loning T, Berger B, Buhl C. Immunoblot analysis of immune response to Campylobacter pylori and its clinical associations. J Clin Pathol 1988 Jun;41(6):653-9.

Wang JT, Lin JT, Sheu JC, Yang JC, Chen DS, Wang TH. Detection of Helicobacter pylori in gastric biopsy tissue by polymerase chain reaction. Eur J Clin Microbiol Infect Dis 1993 May;12(5):367-71.

## DRUG THERAPY

Adamek RJ, Wegener M, Opferkuch W, Ruhl GH. Successful Helicobacter pylori eradication: a systemic effect of antibiotics? [letter]. Am J Gastroenterol 1993 May;88(5):792-3.

Adeyemi EO, Fadlalla H, al-Homsi M, Nnalue NA, Goodwin S, Boehme D, Sim AJ. Clinicopathological assessment of gastric biopsy samples of patients with Helicobacter pylori infection--metronidazole resistance and compliance problems in the United Arab Emirates. Ital J Gastroenterol 1992 Oct;24(8):436-9.

Antibiotics plus ranitidine may cut ulcer recurrence. Am Pharm 1993;33(6):16.

Arakawa T, Higuchi K, Oshitani N, Yamada T, Kobayashi K. Efficacy of famotidine for omeprazole-refractory gastric ulcer [letter]. Dig Dis Sci 1993 Mar;38(3):573-5.

Arakawa T, Kimura S, Uchida T, Higuchi K, Fukuda T, Kobayashi K. Proton-pump inhibitor-refractory gastric ulcer and Helicobacter pylori [letter]. Am J Gastroenterol 1993 Aug;88(8):1295.

Arakawa T, Kobayashi K, Dajani EZ. Refractory peptic ulcers. J Assoc Acad Minor Physicians 1992;3(3): 95-102.

Archambult AP, Pare P, Bailey RJ, Navert H, Williams CN, Freeman HJ, Baker SJ, Marcon NE, Hunt RH, Sutherland L, et al. Omeprazole (20 mg daily) versus cimetidine (1200 mg daily) in duodenal ulcer healing and pain relief. Gastroenterology 1988 May;94(5 Pt 1):1130-4.

Axon AT. Helicobacter pylori infection. J Antimicrob Chemother 1993;32 Suppl A:61-8.

Barthel JS. Eradication of Helicobacter pylori and recurrence of duodenal ulcer. Ann Intern Med 1993;118 Suppl 3:69.

Bayerdorffer E, Mannes GA, Sommer A, Hochter W, Weingart J, Hatz R, Lehn N, Ruckdeschel G, Dirschedl P, Stolte M. Long-term follow-up after eradication of Helicobacter pylori with a combination of omeprazole and amoxycillin. Scand J Gastroenterol Suppl 1993;196:19-25.

Bell GD, Powell KU. Helicobacter pylori eradication. Practitioner 1993 Apr;237(1525):306-10.

Bell GD, Powell KU, Burridge SM, Harrison G, Rameh B, Weil J, Gant PW, Jones PH, Trowell JE. Reinfection or recrudescence after apparently successful eradication of Helicobacter pylori infection: implications for treatment of patients with duodenal ulcer disease. Q J Med 1993 Jun;86(6): 375-82.

Bell GD, Weil J, Powell K, Jobson R, Harrison G, Gant PW, Jones PH, Owen RJ, Moreno M, Trowell JE.

Helicobacter pylori treated with combinations of tripotassium dicitrato and metronidazole: efficacy of different treatment regimens and some observations on the emergence of metronidazole resistance. Eur J Gastroenterol Hepatol 1991;3(11):819-22.

Berardi RR, Dunn-Kucharski VA. Peptic ulcer disease: an update. Am Pharm 1993 Jun;NS33(6):26-34.

Berstad A, Alexander B, Weberg R, Serck-Hanssen A, Holland S, Hirschowitz BI. Antacids reduce Campylobacter pylori colonization without healing the gastritis in patients with nonulcer dyspepsia and erosive prepyloric changes. Gastroenterology 1988 Sep;95(3):619-24.

Berstad K, Weberg R, Berstad A. Suppression of gastric urease activity by antacids. Scand J Gastroenterol 1990 May;25(5):496-500.

Bianchi Porro G, Parente F. Site-and cytoprotective drugs in the short-term treatment of peptic ulcer. What is their current role? Ital J Gastroenterol 1990;22 Suppl 1:5-10.

Boixeda D, De Rafael L, Canton R, Sampedro J, De Argila CM, Baquero F. Galenical formulations of amoxicillin/clavulanate and eradication of Helicobacter pylori in peptic ulcer patients: preliminary report. Eur J Gastroenterol Hepatol 1993;5(4):283-5.

Borody TJ, Cole P, Noonan S, Morgan A, Lenne J, Hyland L, Brandl S, Borody EG, George LL. Recurrence of duodenal ulcer and Campylobacter pylori infection after eradication. Med J Aust 1989 Oct 16;151(8):431-5.

Borody TJ, George LL, Brandl S, Andrews P, Lenne J, Moore-Jones D, Devine M, Walton M. Helicobacter pylori eradication with doxycycline-metronidazole-bismuth subcitrate triple therapy. Scand J Gastroenterol 1992 Apr;27(4):281-4.

Borsch G. Roxatidine acetate in the long term maintenance of gastric ulcers. Drugs 1988; 35 Suppl 3:134-8.

Borsch G. [Stomach and duodenal ulcer. Pathogenesis and conservative therapy]. Med Monatsschr Pharm 1988 May;11(5):181-8. (Ger).

Borsch G. [Therapy of Campylobacter pylori infection]. Leber Magen Darm 1988 Feb;18(1):38-45. (Ger).

Borsch G. [Therapy of peptic ulcer. Bismuth salts]. Verh Dtsch Ges Inn Med 1988;94:284-92. (Ger).

Boyd EJ, Penston JG, Johnston DA, Wormsley KG. Does maintenance therapy keep duodenal ulcers healed? Lancet 1988 Jun 11;1(8598):1324-7.

Boyd EJ, Penston JG, Wormsley KG. Maintenance therapy in duodenal and gastric ulcer disease: survey of practice amongst British gastroenterologists. Aliment Pharmacol Ther 1992 Dec;6(6):727-37.

Boyd EJ, Penston JG, Wormsley KG. Maintenance therapy of duodenal and gastric ulcer with H2-receptor antagonists. Scand J Gastroenterol Suppl 1990;178:72-8.

Brooks WS. Short- and long-term management of peptic ulcer disease: current role of H2-antagonists. Hepatogastroenterology 1992 Feb;39 Suppl 1:47-52.

Burget DW, Chiverton SG, Hunt RH. Is there an optimal degree of acid suppression for healing of duodenal ulcers? A model of the relationship between ulcer healing and acid suppression. Gastroenterology 1990 Aug;99(2):345-51. Comment in: Gastroenterology 1991 May;100(5 Pt 1):1482-3.

[Campylobacter pyloridis associated duodenum ulcers: less recurrent after germ eradication with antibiotics and ranitidine]. Dtsch Apoth Ztg 1993;133(21):38. (Ger).

Carrick J. Problems with clinical trials on Campylobacter pylori [editorial]. J Clin Gastroenterol 1988 Jun;10(3):247-8.

Catalano F, Mangiameli A, Inserra G, Monello S, Brogna A, Sofia M, Rizzo G, Ayoubi Khajekini M, Blasi A. Omeprazole vs. ranitidine in short-term treatment of Helicobacter pylori positive duodenal ulcer patients. Ital J Gastroenterol 1991 Jan;23(1): 9-11. Comment in: Ital J Gastroenterol 1991 Dec; 23(9):597-8.

Cave DR. Therapeutic approaches to recurrent peptic ulcer disease. Hosp Pract (Off Ed) 1992 Sep 30; 27(9A):33-40, 43, 47-9.

Chamberlain CE, Peura DA. Campylobacter (Helicobacter) pylori. Is peptic disease a bacterial infection? Arch Intern Med 1990 May;150(5): 951-5.

Chiba N, Rao BV, Rademaker JW, Hunt RH. Meta-analysis of the efficacy of antibiotic therapy in eradicating Helicobacter pylori. Am J Gastroenterol 1992 Dec;87(12):1716-27.

Chiverton SG, Howden CW, Burget DW, Hunt RH. Omeprazole (20 mg) daily given in the morning or evening: a comparison of effects on gastric acidity, and plasma gastrin and omeprazole concentration. Aliment Pharmacol Ther 1992 Feb;6(1):103-11.

Chiverton SG, Hunt RH. Combination of pirenzepine and cimetidine in the therapy of duodenal ulcer [letter]. Am J Gastroenterol 1988 Aug;83(8):891-2.

Chiverton SG, Hunt RH. H2-receptor antagonist non-responders [letter]. Lancet 1988 Jul 30;2(8605):275.

Chiverton SG, Hunt RH. Medical regimens in short- and long-term ulcer management. Baillieres Clin Gastroenterol 1988 Jul;2(3):655-76.

Chiverton SG, Hunt RH. Pharmacokinetics and pharmacodynamics of treatments for peptic ulcer disease in the elderly. Am J Gastroenterol 1988 Mar;83(3):211-5.

Coghlan J, Hutchinson L, Gilligan D, McKenna D, Keane C, Sweeney E, O'Morain C. Dosage of colloidal bismuth subcitrate in duodenal ulcer healing and clearance of Campylobacter pylori. Aliment Pharmacol Ther 1990 Feb;4(1):49-54.

Colley S. Reserve eradication therapy for selected patients. Practitioner 1992 Dec;236(1521):1164-6.

Collins R, Beattie S, Xia HX, O'Morain C. Short report: high-dose omeprazole and amoxycillin in the treatment of Helicobacter pylori-associated duodenal ulcer. Aliment Pharmacol Ther 1993 Jun;70(3): 313-5.

Conz P, Feriani M, Milan M, Bernardini D, Crepaldi C, La Greca G. Campylobacter pylori infection in uremic dialyzed patients. Eradication of the infection by colloidal bismuth subcitrate [letter]. Nephron 1990;55(4):442-3. Comment in: Nephron 1991;58(3):376.

Cutler AF, Schubert TT. Patient factors affecting Helicobacter pylori eradication with triple therapy. Am J Gastroenterol 1993 Apr;88(4):505-9.

Czinn SJ, Speck WT. Campylobacter pylori: a new pathogen. Adv Pediatr Infect Dis 1990;5:221-37.

Daw MA, Deegan P, Leen E, O'Morain C. Short report: the effect of omeprazole on Helicobacter pylori and associated gastritis. Aliment Pharmacol Ther 1991 Aug;5(4):435-9.

De Giacomo C, Fiocca R, Villani L, Lisato L, Licardi G, Diegoli N, Donadini A, Maggiore G. Helicobacter pylori infection and chronic gastritis: clinical, serological, and histologic correlations in children treated with amoxicillin and colloidal bismuth subcitrate. J Pediatr Gastroenterol Nutr 1990 Oct;11(3):310-6.

Deakin M, Williams JG. Histamine H2-receptor antagonists in peptic ulcer disease. Efficacy in healing peptic ulcers. Drugs 1992 Nov;44(5): 709-19.

DeCross AJ, Marshall BJ. Eradication of Helicobacter pylori: which patients, which drugs? Drug Ther 1993;23(1):25-8, 33-6.

Derodra JK, Howden CW, Burget DW, Hunt RH. Twenty-four-hour intragastric acidity and nocturnal gastric secretion in gastric ulcer patients--the effects of cimetidine. Aliment Pharmacol Ther 1990 Jun; 4(3):275-81.

Di Napoli A, Petrino R, Boero M, Bellis D, Chiandussi L. Quantitative assessment of histological changes in chronic gastritis after eradication of Helicobacter pylori. J Clin Pathol 1992 Sep;45(9):796-8.

Dill S, Payne-James JJ, Misiewicz JJ, Grimble GK, McSwiggan D, Pathak K, Wood AJ, Scrimgeour CM, Rennie MJ. Evaluation of 13C-urea breath test in the detection of Helicobacter pylori and in monitoring the effect of tripotassium dicitratobismuthate in non-ulcer dyspepsia. Gut 1990 Nov;31(11):1237-41. Comment in: Gut 1991 May;32(5):551-2.

Dobrilla G, Zancanella L, Amplatz S. The need for long-term treatment of peptic ulcer. Aliment Pharmacol Ther 1993;7 Suppl 2:3-15.

Dotto P, Battaglia G, Franceschi M, Vigneri S, Ferrana M, Salandin S, Dal Bo N, Grasso GA, Vianello F, Plebani M, Guido M, Rugge M, Di Mario F. Comparison of three different therapeutic regimens for eradicating Helicobacter pylori. Curr Ther Res Clin Exp 1993;53(5):557-64.

Drapers JA, Tytgat KM, Rauws EA, Tytgat GN. [The course of benign stomach ulcer; results of a follow-up study]. Ned Tijdschr Geneeskd 1990 Mar 31; 134(13):643-7. (Dut).

Eastham EJ, Elliott TS, Berkeley D, Jones DM. Campylobacter pylori infection in children. J Infect 1988 Jan;16(1):77-9.

Eberhardt R, Kasper G. Effect of oral bismuth subsalicylate on Campylobacter pylori and on healing and relapse rate of peptic ulcer. Rev Infect Dis 1990 Jan-Feb;12 Suppl 1:S115-9.

Eberhardt R, Kasper G, Dettmer A, Hochter W, Hagena D. [Effect of bismuth subsalicylate versus cimetidine on Campylobacter pylori, ulcer healing and rate of recurrence]. Med Klin 1988 May 27; 83(12):402-5. (Ger).

Ebert R. [Omeprazole]. Internist (Berl) 1992 Sep;33(9): 622-6. (Ger).

Edwards DI. Nitroimidazole drugs - action and resistance mechanisms. I. Mechanisms of action. J Antimicrob Chemother 1993;31(1):9-20.

El-Omar E, Penman I, Dorrian CA, Ardill JE, McColl KE. Eradicating Helicobacter pylori infection lowers gastrin mediated acid secretion by two thirds in patients with duodenal ulcer. Gut 1993;34(8): 1060-5.

Elta GH. Duodenal ulcer disease--to heal or to cure? Gastroenterology 1991 Feb;100(2):573-5.

Fedotin MS. Helicobacter pylori and peptic ulcer disease: reexamining the therapeutic approach. Postgrad Med 1993 Sep 1;94(3):38-40, 43-5.

Fedotin MS. Helicobacter pylori-associated ulcer disease: current treatment options. Hosp Formul 1993;28(7):632-4, 636, 639-40.

Feldman M. Can gastroduodenal ulcers in NSAID users be prevented? [editorial]. Ann Intern Med 1993 Aug 15;119(4):337-9. Comment on: Ann Intern Med 1993 Aug 15;119(4):257-62.

Feldman M, Burton ME. Histamine2-receptor antagonists. Standard therapy for acid-peptic diseases. 1. N Engl J Med 1990 Dec 13; 323(24):1672-80.

Feldman M, Burton ME. Histamine2-receptor antagonists. Standard therapy for acid-peptic diseases. N Engl J Med 1990 Dec 20;323(25): 1749-55. Comment in: N Engl J Med 1991 May 2; 324(18):1289-90.

Fiocca R, Solcia E, Santoro B. Duodenal ulcer relapse after eradication of Helicobacter pylori [letter]. Lancet 1991 Jun 29;337(8757):1614. Comment in: Lancet 1991 Aug 31;338(8766):569.

Florent C, Desaint B, Legendre C, Chappuis P, Galle C, Giboudeau J, de Meynard C. Morphologic and ultrastructural effects of Maalox TC on human gastric and duodenal mucosa. J Clin Gastroenterol 1991;13 Suppl 1:S139-44.

Forsmark CE, Wilcox CM, Cello JP, Margaretten W, Lee B, Sachdeeva M, Satow J, Sande MA. Ciprofloxacin in the treatment of Helicobacter pylori in patients with gastritis and peptic ulcer. J Infect Dis 1990 Oct;162(4):998-9.

Freston JW. Future prospects for proton pump inhibitors. Aliment Pharmacol Ther 1993;7 Suppl 1: 68-75.

Fritsch WP. [Causal therapy of chronic gastritis?]. Z Gastroenterol 1988 Aug;26(8):430-3. (Ger).

Ghelani AM, Hale S, Coleman H, Radziwonik H, Robertson C, Atkinson M. Lack of in vitro activity of omeprazole against Campylobacter pylori [letter]. Published erratum appears in J Clin Pathol 1990 May;43(5):440. J Clin Pathol 1990 Feb;43(2): 171-2.

Glupczynski Y. In vitro susceptibility testing of Helicobacter pylori and pharmacology of antimicrobial agents. Cesk Gastroenterol Vyz 1993;47(2):58-61.

Glupczynski Y, Delmee M, Bruck C, Labbe M, Avesani V, Burette A. Susceptibility of clinical isolates of Campylobacter pylori to 24 antimicrobial and anti-ulcer agents. Eur J Epidemiol 1988 Jun; 4(2):154-7.

Goh KL, Tan KK, Anderson PE. Omeprazole may kill Helicobacter pylori [letter]. Am J Gastroenterol 1991 Jan;86(1):124. Comment in: Am J Gastroenterol 1991 Sep;86(9):1276.

Goldie J, Veldhuyzen van Zanten SJ, Jalali S, Richardson H, Hunt RH. Inhibition of urease activity but not growth of Helicobacter pylori by acetohydroxamic acid. J Clin Pathol 1991 Aug; 44(8):695-7. Comment in: J Clin Pathol 1992 Apr; 45(4):367-8.

Goodwin CS, Armstrong JA, Marshall BJ. Campylobacter pyloridis, gastritis, and peptic ulceration. J Clin Pathol 1986 Apr;39(4):353-65.

Goodwin CS, Bell B, McCullough C, Turner M. Sensitivity of Campylobacter pylori to colloidal bismuth subcitrate [letter]. J Clin Pathol 1989 Feb;42(2):216-7.

Goodwin CS, Worsley B. Peptic ulcer disease and Helicobacter pylori infection. Curr Opin Gastroenterol 1992;8(1):122-7.

Graham DY. Treatment of peptic ulcers caused by Helicobacter pylori [editorial]. N Engl J Med 1993 Feb 4;328(5):349-50. Comment on: N Engl J Med 1993 Feb 4;328(5):308-12.

Graham DY, Borsch GM. The who's and when's of therapy for Helicobacter pylori [editorial]. Am J Gastroenterol 1990 Dec;85(12):1552-5. Comment in: Am J Gastroenterol 1991 Jul;86(7):924-5.

Graham DY, Colon-Pagan J, Morse RS, Johnson TL, Walsh JH, McCullough AJ, Marks JW, Sklar M, Stone RC, Cagliola AJ, et al. Ulcer recurrence following duodenal ulcer healing with omeprazole, ranitidine, or placebo: a double-blind, multicenter, 6-month study. The Omeprazole Duodenal Ulcer Study Group. Gastroenterology 1992 Apr;102 (4 Pt 1):1289-94.

Graham DY, Go MF, Murray DM, DuPont HL. Evaluation of new antiinfective drugs for Helicobacter pylori infection: revisited and updated. Clin Infect Dis 1993;17(2):293-5.

Graham DY, Klein PD, Evans DG, Evans DJ Jr, Alpert LC, Opekun A, Jerdack GR, Morgan DR. Simple noninvasive method to test efficacy of drugs in the eradication of Helicobacter pylori infection: the example of combined bismuth subsalicylate and nitrofurantoin. Am J Gastroenterol 1991 Sep;86(9): 1158-62.

Graham DY, Lew GM, Ramirez FC, Genta RM, Klein PD, Malaty HM. Short report: a non-metronidazole triple therapy for eradication of Helicobacter pylori infection--tetracycline, amoxicillin, bismuth. Aliment Pharmacol Ther 1993 Feb;7(1):111-3.

Graham DY, McCullough A, Sklar M, Sontag SJ, Roufail WM, Stone RC, Bishop RH, Gitlin N, Cagliola AJ, Berman RS, et al. Omeprazole versus placebo in duodenal ulcer healing. The United States experience. Dig Dis Sci 1990 Jan;35(1): 66-72.

Graham DY, Opekun AR, Klein PD. Clarithromycin for the eradication of Helicobacter pylori. J Clin Gastroenterol 1993 Jun;16(4):292-4.

Gubbins GP, Schubert TT, Attanasio F, Lubetsky M, Perez-Perez GI, Blaser MJ. Helicobacter pylori seroprevalence in patients with rheumatoid arthritis: effect of nonsteroidal anti-inflammatory drugs and gold compounds. Am J Med 1992 Oct;93(4):412-8.

Gustavsson S, Engstrand L. Future strategies in acid-peptic disorders: concluding remarks. Scand J Gastroenterol Suppl 1988;142:114-6.

Harrison JD, Jones JA, Morris DL. Azithromycin levels in plasma and gastric tissue, juice and mucus. Eur J Clin Microbiol Infect Dis 1991 Oct;10(10): 862-4.

Heatley RV. Peptic ulcer disease: the long-term management challenge: Preface. Aliment Pharmacol Ther 1992;7 Suppl 2:iii.

Heatley RV. Review article: the treatment of Helicobacter pylori infection. Aliment Pharmacol Ther 1992 Jun;6(3):291-303.

Heatley RV, Sobala GM. Acid suppression and the gastric flora. Baillieres Clin Gastroenterol 1993 Mar;7(1):167-81.

Hentschel E, Nemec H, Schutze K, Hirschl A, Dragosics B, Brandstatter G, Taufer M. Duodenal ulcer recurrence and Helicobacter pylori [letter]. Lancet 1991 Aug 31;338(8766):569. Comment on: Lancet 1991 Jun 29;337(8757):1614.

Hentschel E, Schutze K. A comparison of roxatidine acetate 150 mg once daily and 75 mg twice daily in duodenal ulcer healing. Drugs 1988;35 Suppl 3: 96-101.

Howden CW, Hunt RH. The relationship between suppression of acidity and gastric ulcer healing rates. Aliment Pharmacol Ther 1990 Feb;4(1): 25-33.

Howden CW, Jones DB, Peace KE, Burget DW, Hunt RH. The treatment of gastric ulcer with antisecretory drugs. Relationship of pharmacological effect to healing rates. Dig Dis Sci 1988 May; 33(5):619-24.

Huang CK, Chen GH. Colloidal bismuth subcitrate, ranitidine, and ranitidine plus metronidazole in the treatment of duodenal ulcer and Helicobacter pylori infection: a controlled and prospective study. Chung Hua I Hsueh Tsa Chih (Taipei) 1993 Jul;52(1): 15-20.

Hunt RH. Acid suppression [letter]. BMJ 1990 Nov 3; 301(6759):1047-8. Comment on: BMJ 1990 Sep 22; 301(6752):564-5; comment in: BMJ 1990 Dec 8; 301(6764):1329-30.

Hunt RH. Acid suppression and ulcer healing: dichotomy, degree, and dilemma [editorial]. Am J Gastroenterol 1988 Sep;83(9):964-6.

Hunt RH. Current research and future directions in peptic ulcer research. J Tokyo Womens Med Coll 1993;63 Suppl:21-7.

Hunt RH. Treatment of peptic ulcer disease with sucralfate: a review. Am J Med 1991 Aug 8; 91(2A):102S-106S.

Hunt RH, Chiverton SG. How does smoking harm the duodenum [letter]. Br Med J (Clin Res Ed) 1988 Mar 19;296(6625):864-5.

Hupertz V, Carr H, Czinn SJ. Susceptibility of Campylobacter pylori isolated from pediatric and adult patients to seven new quinolone antibiotics and nalidixic acid. Chemotherapy 1988;34(4):341-4.

Isakov VA, Grigoriev PYa, Yakovenko EP. Treatment of Helicobacter pylori positive duodenal ulcers [letter]. Lancet 1990 Sep 22;336(8717):755-6.

Islam S, McLean AJ. Systemic chemotherapy for Helicobacter pylori eradication? [letter]. Gut 1990 Dec;31(12):1421-2.

Jauhari JS. Metronidazole in acid peptic disease [letter]. J Assoc Physicians India 1991 Apr;39(4):359. Comment on: J Assoc Physicians India 1990 Apr; 38(4):309.

Johnston DA, Wormsley KG. Time of administration influences gastric inhibitory effects of ranitidine. Scand J Gastroenterol 1988 Nov;23(9):1137-40.

Jones DB, Howden CW, Burget DW, Silletti C, Hunt RH. Alteration of H2 receptor sensitivity in duodenal ulcer patients after maintenance treatment with an H2 receptor antagonist. Gut 1988 Jul;29(7): 890-3. Comment in: Gut 1989 May;30(5):701-3.

Kaariainen I, Sipponen P, Siurala M. What fraction of hospital ulcer patients is eligible for prospective drug trials? Scand J Gastroenterol Suppl 1991;186: 73-6.

Kalro RH, Amarapurkar DN. Is maintenance therapy required for duodenal ulcer disease? J Assoc Physicians India 1990 Sep;38 Suppl 1:743-5.

Kamada T, Kawano S, Tsuji S. [Proton pump inhibitors: their merits and demerits, and perspectives for future investigation]. Nippon Rinsho 1992 Jan;50(1):53-9. (Jpn).

Kaya IS, Dilmen U, Diker S. Helicobacter pylori, peptic ulcer, and cimetidine [letter]. Mayo Clin Proc 1990 Sep;65(9):1274-5. Comment on: Mayo Clin Proc 1990 Feb;65(2):187-91.

Kemmer TP, Malfertheiner P, Bode G, Ditschuneit H. Influence of colloidal bismuth subcitrate on enzyme secretion from isolated rat pancreatic acinar cells. Res Exp Med (Berl) 1992;192(6):415-22.

Kohli Y, Kato T, Ito S, Iwaki M, Suzuki K, Ueda T, Abe Y, Nishikawa K. Significance of Helicobacter pylori infection in human peptic ulcers. Dig Endosc 1993;5(1):43-8.

Konikoff F. Tripotassium dicitrato bismuthate on unhealed duodenal ulcers [letter]. Gut 1988 Apr; 29(4):551-2.

Koop H. [Drug therapy of peptic ulcer in the elderly]. Z Gerontol 1992 Sep-Oct;25(5):304-8. (Ger).

Koop H. [Functional upper abdominal pain in Campylobacter-associated gastritis: does the patient profit from bismuth therapy?]. Z Gastroenterol 1989 Nov;27(11):701-2. (Ger).

Koop H. [New therapy attempts in duodenal and stomach ulcers]. Dtsch Med Wochenschr 1992 Aug 14;117(33):1247-50. (Ger).

Korman MG. Quality of healing in peptic ulcer disease-are H2 receptor antagonists all we need? Gastroenterol Jpn 1993 May;28 Suppl 5:168-71.

Kosunen TU, Seppala K, Sarna S, Sipponen P. Diagnostic value of decreasing IgG, IgA, and IgM antibody titres after eradication of Helicobacter pylori. Lancet 1992 Apr 11;339(8798):893-5. Comment in: Lancet 1992 Jul 4;340(8810):51; Lancet 1992 Jul 4;340(8810):51-2.

Kumar N, Anand BS. Campylobacter pyloridis is not responsible for duodenal ulcer formation: results of a controlled therapeutic trial. J Assoc Physicians India 1988 Feb;36(2):137-9.

Kumar N, Punjabi ND, Jain PC, Srivastava S. Campylobacter pyloridis is not responsible for duodenal ulcer formation, result of a controlled therapeutic trial [letter]. J Assoc Physicians India 1988 Sep;36(9):574-5.

Labenz J, Borsch G. [Proton pump blockade and Helicobacter pylori: status of current knowledge and clinical importance]. Leber Magen Darm 1992 Sep;22(5):169-72. (Ger).

Labenz J, Borsch G, Gyenes E, Ruhl GH. Amoxicillin plus omeprazole: a simple and effective therapeutic regimen to eradicate Helicobacter pylori. Eur J Gastroenterol Hepatol 1993;5(2):115-6.

Labenz J, Gyenes E, Ruhl GH, Borsch G. [Oral triple therapy for eradication of Helicobacter pylori in duodenal ulcer disease]. Med Klin 1993 May 15; 88(5):297-9. (Ger).

Labenz J, Gyenes E, Ruhl GH, Borsch G. [Short-term therapy with high dosage omeprazole and amoxicillin for Helicobacter pylori eradication. A pilot study]. Med Klin 1992 Mar 15;87(3):118-9. (Ger).

Laine L. Antibiotic therapy alone eradicates Helicobacter pylori and prevents duodenal ulcer recurrence. Gastroenterology 1993 Aug;105(2): 598-9.

Laine L. Eradication of Helicobacter pylori reduces gastric and duodenal ulcer recurrence. Gastroenterology 1992 Nov;103(5):1695-6.

Lam SK. Duodenal ulcer relapse after eradication of Campylobacter pylori [letter]. Lancet 1989 Feb 18; 1(8634):384. Comment in: Lancet 1989 Apr 22; 1(8643):896.

Lam SK. Treatment of duodenal ulcer with sucralfate. Scand J Gastroenterol Suppl 1991;185:22-8.

Lambert JR, Dunn K, Borromeo M, Korman MG, Hansky J. Campylobacter pylori--a role in non-ulcer dyspepsia? Scand J Gastroenterol Suppl 1989;160: 7-13.

Langenberg W, Rauws EA, Houthoff HJ, Oudbier JH, van Bohemen CG, Tytgat GN, Rietra PJ. Follow-up study of individuals with untreated Campylobacter pylori-associated gastritis and of noninfected persons with non-ulcer dyspepsia. J Infect Dis 1988 Jun;157(6):1245-9.

Larsson H. [Proton pump inhibitors - pharmacology, mechanism of action (and use in treatment) of Helicobacter pylori infections.] Cesk Gastroenterol Vyz 1993;47(2):62-4. (Cze).

Leiss O. [Helicobacter pylori-induced cost-benefit risk considerations]. Leber Magen Darm 1989 Dec; 19(6):333-5. (Ger).

Locke GR, Talley NJ. Management of non-ulcer dyspepsia. J Gastroenterol Hepatol 1993 May-Jun; 8(3):279-86.

Logan RP, Baron JH, Misiewicz JJ. Eradicating Helicobacter pylori in patients with duodenal ulcer [letter]. BMJ 1992 Oct 31;305(6861):1094-5. Comment on: BMJ 1992 Aug 29;305(6852):502-4.

Logan RP, Gummett PA, Hegarty BT, Walker MM, Baron JH, Misiewicz JJ. Clarithromycin and omeprazole for Helicobacter pylori [letter]. Lancet 1992 Jul 25;340(8813):239.

Mainguet P, Delmee M, Debongnie JC. Omeprazole, campylobacter pylori, and duodenal ulcer [letter]. Lancet 1989 Aug 12;2(8659):389-90. Comment on: Lancet 1989 May 27;1(8648):1167-8; comment in: Lancet 1989 Dec 9;2(8676):1403.

Malanoski GJ, Eliopoulos GM, Ferraro MJ, Moellering RC Jr. Effect of pH variation on the susceptibility of Helicobacter pylori to three macrolide antimicrobial agents and temafloxacin. Eur J Clin Microbiol Infect Dis 1993;12(2):131-3.

Malaty H, Klein PD, Graham DY. Short report: cefprozil for the eradication of Helicobacter pylori infection. Aliment Pharmacol Ther 1992 Aug;6(4): 503-6.

Mannes GA, Bayerdorffer E, Hochter W, Weingart J, Heldwein W, Sommer A, Muller-Lissner S, Bornschein W, Weinzierl M, Ruchdeschel G, et al. Decreased relapse rate after antibacterial treatment of Helicobacter pylori-associated duodenal ulcers. Munich duodenal ulcer trial. Eur J Gastroenterol Hepatol 1993;5(3):145-3.

Marshall BJ. Campylobacter pylori: its link to gastritis and peptic ulcer disease. Rev Infect Dis 1990 Jan-Feb;12 Suppl 1:S87-93.

Marshall BJ. Campylobacter pylori infection: diagnosis and therapy [editorial]. Med J Aust 1989 Oct 16; 151(8):426-7.

Marshall BJ. The use of bismuth in gastroenterology. The ACG Committee on FDA-Related Matters. American College of Gastroenterology. Am J Gastroenterol 1991 Jan;86(1):16-25.

Marshall BJ, Armstrong JA, Francis GJ, Nokes NT, Wee SH. Antibacterial action of bismuth in relation to Campylobacter pyloridis colonization and gastritis. Digestion 1987;37 Suppl 2:16-30.

Marshall BJ, Warren JR, Goodwin CS. Duodenal ulcer relapse after eradication of Campylobacter pylori [letter]. Lancet 1989 Apr 15;1(8642):836-7.

McCarthy C, O'Morain C. [Helicobacter pylori and acid suppression]. Cesk Gastroenterol Vyz 1993; 47(2):68-9. (Cze).

McCarthy CJ, Collins R, Beattie S, Hamilton H, O'Morain C. Short report: treatment of Helicobacter pylori-associated duodenal ulcer with omeprazole plus antibiotics. Aliment Pharmacol Ther 1993;7(4):463-6.

McCarthy DM. Maintenance therapy for peptic ulcer- Who needs it? Gastroenterol Jpn 1993 May; 28 Suppl 5:172-7.

McColl KE, Fullarton GM, el Nujumi AM, Macdonald AM, Brown IL, Hilditch TE. Lowered gastrin and gastric acidity after eradication of Campylobacter pylori in duodenal ulcer [letter]. Lancet 1989 Aug 26;2(8661):499-500. Comment on: Lancet 1989 May 27;1(8648):1167-8.

McKinlay AW. Antibiotics in the treatment of peptic ulcer disease. J Antimicrob Chemother 1992 Feb; 29(2):92-6.

Megraud F, Boyanova L, Lamouliatte H. Activity of lansoprazole against Helicobacter pylori [letter]. Lancet 1991 Jun 15;337(8755):1486.

Menge H. [What is safe in the treatment of Campylobacter pylori-induced gastritis and Campylobacter pylori-associated peptic ulcer?]. Internist (Berl) 1988 Nov;29(11):745-54. (Ger).

Mignon M. Chairman's introduction. Aliment Pharmacol Ther 1993;7 Suppl 2:1.

Misiewicz JJ. Helicobacter pylori and the medical management of peptic ulcer. Curr Pract Surg 1993;5(2):100-4.

Misra SC, Dasarathy S, Sharma MP. Omeprazole versus famotidine in the healing and relapse of duodenal ulcer. Aliment Pharmacol Ther 1993; 7(4):443-9.

Morishita T, Muto A, Shiozaki H, Nagahama T, Eimoto A, Sawaguchi K, Takiguchi N, Yagi Y, Suzuki M, Tsuchiya M. Efficacy of taurine in the treatment of gastric mucosal lesions associated with Helicobacter pylori. Eur J Gastroenterol Hepatol 1993;5 Suppl 1:S133-6.

O'Donnell M, Alexander-Williams J, Heatley RV, Pounder RE, Wormsley KG. Management issues for debate: the problems in perspective. Aliment Pharmacol Ther 1993;7 Suppl 2:49-55.

O'Morain C, Gilvarry J. Eradication of Helicobacter pylori in patients with non-ulcer dyspepsia. Scand J Gastroenterol Suppl 1993;28(196):30-3.

Ormand JE, Talley NJ. Helicobacter pylori: controversies and an approach to management. Mayo Clin Proc 1990 Mar;65(3):414-26.

Pajares JM, Carballo F, Blanco M. Treatment of peptic ulcer disease: is Helicobacter pylori a consideration? Hepatogastroenterology 1992 Feb; 39 Suppl 1:40-4.

Penston J, Wormsley KG. [Long-term maintenance therapy in duodenal ulcer. Efficacy and safety]. Fortschr Med 1990 May 10;108(14):282-6. (Ger).

Penston JG, Boyd EJ, Wormsley KG. Complications associated with ulcer recurrence following gastric surgery for ulcer disease. Gastroenterol Jpn 1992 Feb;27(1):129-41.

Penston JG, Dixon JS, Selway SA, Wormsley KG. Gastric histology and plasma gastrin response to a meal in patients with duodenal ulcer disease after five years treatment with ranitidine. Aliment Pharmacol Ther 1990 Aug;4(4):381-92.

Penston JG, Wormsley KG. Asymptomatic duodenal ulcers occurring during maintenance treatment with ranitidine. Aliment Pharmacol Ther 1990 Dec;4(6): 569-76.

Penston JG, Wormsley KG. A fallacy of intention-to-treat analysis [letter]. Gastroenterology 1991 May;100(5 Pt 1):1485-7. Comment on: Gastroenterology 1990 Jul;99(1):27-35.

Penston JG, Wormsley KG. Long-term maintenance treatment of gastric ulcers with ranitidine. Aliment Pharmacol Ther 1990 Aug;4(4):339-55.

Penston JG, Wormsley KG. Nine years of maintenance treatment with ranitidine for patients with duodenal ulcer disease. Aliment Pharmacol Ther 1992 Oct; 6(5):629-45.

Penston JG, Wormsley KG. Review article: asymptomatic duodenal ulcers--implications of heterogeneity. Aliment Pharmacol Ther 1990 Dec;4(6):557-67.

Penston JG, Wormsley KG. Review article: maintenance treatment with H2-receptor antagonists for peptic ulcer disease. Aliment Pharmacol Ther 1992 Feb;6(1):3-29.

Penston JG, Wormsley KG. Symptomatic self-care for duodenal ulcer disease [letter]. Aliment Pharmacol Ther 1992 Dec;6(6):759-60. Comment on: Aliment Pharmacol Ther 1992 Jun;6(3):315-25.

Perisic VN, Sarjanovic L. Campylobacter pylori, resistant duodenal ulcers, and antibiotic treatment [letter]. J Pediatr Gastroenterol Nutr 1988 Nov-Dec;7(6):934-5.

Peterson WL, Harford WV. Controversies, dilemmas, and dialogues. Reduction of gastric acidity in the treatment of peptic ulcer disease: how low should we go? Am J Gastroenterol 1991 Jun;86(6):671-5.

Pym B, Sandstad J, Seville P, Byth K, Middleton WR, Talley NJ, Piper DW. Cost-effectiveness of cimetidine maintenance therapy in chronic gastric and duodenal ulcer. Gastroenterology 1990 Jul; 99(1):27-35. Comment in: Gastroenterology 1991 Feb;100(2):584-5; Gastroenterology 1991 May; 100(5 Pt 1):1485-7.

Raedsch R. [Bismuth therapy in gastroenterology]. Dtsch Med Wochenschr 1991 May 24; 116(21): 821-4. (Ger).

Raedsch R. [Helicobacter pylori infection and ulcer disease]. Dtsch Med Wochenschr 1993 Aug 13; 118(32):1173. (Ger).

Rautelin H, Seppala K, Renkonen OV, Vainio U, Kosunen TU. Role of metronidazole resistance in therapy of Helicobacter pylori infections. Antimicrob Agents Chemother 1992 Jan;36(1): 163-6.

Rautelin H, Vaara M, Renkonen OV, Kosunen TU, Seppala K. In vitro activity of antifungal azoles against Helicobacter pylori [letter]. Eur J Clin Microbiol Infect Dis 1992 Mar;11(3):273-4.

Rauws EA. [Helicobacter pylori treatment]. Cesk Gastroenterol Vyz 1993;47(2):66-8. (Cze).

Roberts J. An effective ‘cure’ for a chronic disease. Practitioner 1992 Dec;236(1521):1164-6.

Rodney WM. Peptic disease syndrome: should we treat H. pylori? [editorial]. Am Fam Physician 1993 Mar;47(4):742-4.

The role of acid inhibition in the management of Helicobacter pylori infection: Discussion I. Scand J Gastroenterol Suppl 1993;196:26-8.

Ruhl GH, Borsch G. Chronic active gastritis after eradication of Campylobacter (now: Helicobacter) pylori. Results of a medium term follow-up study. Pathol Res Pract 1991 Mar;187(2-3):226-34.

Schlup M. Campylobacter pylori--a simple answer to a complex problem? N Z Med J 1988 Jul 13; 101(849):449-50.

Scorza A, Conti-Nibali S, Sferlazzas C, Saitta G, Tedeschi A. Ranitidine in children with peptic ulcer and patients with pancreatic cystic fibrosis. Int J Clin Pharmacol Res 1990;10(3):179-82.

Shiu KL. Treatment of peptic ulcer in relation to the effect of nicotine on gastric mucosal blood flow and acid secretion. J Tokyo Womens Med Coll 1993;63 Suppl:41-50.

Sobala GM, Schorah CJ, Shires S, Lynch DA, Gallacher B, Dixon MF, Axon AT. Effect of eradication of Helicobacter pylori on gastric juice ascorbic acid concentrations. Gut 1993;34(8): 1038-41.

Stollerman GH, Bisno AL, Sullivan JM. Peptic ulcer doesn’t recur when Helicobacter pylori is eradicated. Hosp Pract (Off Ed) 1993;28(4):143-4.

Stolte M. [Ulcer of the stomach and duodenum: enormous change in diagnosis and therapy]. Leber Magen Darm 1991 Jun;21(4):141-6. (Ger).

Suerbaum S, Leying H, Klemm K, Opferkuch W. Antibacterial activity of pantoprazole and omeprazole against Helicobacter pylori [letter]. Eur J Clin Microbiol Infect Dis 1991 Feb;10(2):92-3.

Taffinder A, Taffinder G. Triple therapy against Helicobacter pylori [letter]. Br J Gen Pract 1992 Apr;42(357):168-9.

Taha AS, McKinlay AW, Upadhyay R, Kelly R, Russell RL. Prostaglandins and Campylobacter pylori [letter]. Lancet 1989 Sep 30;2(8666):800-1. Comment on: Lancet 1989 Jul 22;2(8656):212-3.

Taha AS, Russell RI. Helicobacter pylori and non-steroidal anti-inflammatory drugs: uncomfortable partners in peptic ulcer disease. Gut 1993 May; 34(5):580-3.

Talley NJ. Campylobacter pylori-associated gastritis. Is antibiotic therapy now justified? J Clin Gastroenterol 1988 Feb;10(1):10-2.

Talley NJ. Drug treatment of functional dyspepsia. Scand J Gastroenterol Suppl 1991;182:47-60.

Talley NJ. Non-ulcer dyspepsia: myths and realities. Aliment Pharmacol Ther 1991;5 Suppl 1:145-62.

Talley NJ, Ormand JE, Carpenter HA, Phillips SF. Triple therapy for Helicobacter pylori in nonulcer dyspepsia [letter]. Am J Gastroenterol 1991 Jan; 86(1):121-3.

Tari A, Wu V, Sumii M, Sachs G, Walsh JH. Regulation of rat gastric H+/K(+)-ATPase alpha-subunit mRNA by omeprazole. Biochim Biophys Acta 1991 Dec 2;1129(1):49-56.

Thiazole derivatives as H2-receptor antagonists. Curr Opin Ther Pat 1993;3(1):60-1.

Tucci A, Corinaldesi R, Stanghellini V, Paparo GF, Gasperoni S, Biasco G, Varoli O, Ricci-Maccarini M, Barbara L. One-day therapy for treatment of Helicobacter pylori infection. Dig Dis Sci 1993 Sep;38(9):1670-3.

Tucci A, Gasperoni S, Stanghellini V, De Giorgio R, Varoli O, Poli L, Ricci-Maccarini M, Corinaldesi R. Comparison of two therapeutic schedules for the treatment of Helicobacter pylori infection. Croat J Gastroenterol Hepatol 1993;2(1):7-10.

Tytgat GN. Bismuth is better. Scand J Gastroenterol Suppl 1988;155:16-7.

Tytgat GN. Future potential applicability of sucralfate in gastroenterology. Scand J Gastroenterol Suppl 1990;173:34-8.

Tytgat GN, Hameeteman W, Mulder CJ, Wiersinga W, van de Boomgaard DM, Dees J. Five-year cimetidine maintenance trial for peptic ulcer disease. A clinical and endocrinologic approach. Scand J Gastroenterol 1990 Oct;25(10):974-80.

Unge P, Ekstrom P. Effects of combination therapy with omeprazole and an antibiotic on Helicobacter pylori and duodenal ulcer disease. Scand J Gastroenterol Suppl 1993;196:17-8.

Unge P, Gad A, Eriksson K, Bergman B, Carling L, Ekstrom P, Glise H, Gnarpe H, Junghard O, Lindholmer C, et al. Amoxicillin added to omeprazole prevents relapse in the treatment of duodenal ulcer patients. Eur J Gastroenterol Hepatol 1993;5(5):325-31.

Unge P, Gnarpe H. Pharmacokinetic, bacteriological and clinical aspects on the use of doxycycline in patients with active duodenal ulcer associated with Campylobacter pylori. Scand J Infect Dis Suppl 1988;53:70-3.

Valle J, Seppala K, Sipponen P, Kosunen T. Disappearance of gastritis after eradication of Helicobacter pylori. A morphometric study. Scand J Gastroenterol 1991 Oct;26(10):1057-65.

van Zanten SJ, Goldie J, Hollingsworth J, Silletti C, Richardson H, Hunt RH. Secretion of intravenously administered antibiotics in gastric juice: implications for management of Helicobacter pylori. J Clin Pathol 1992 Mar;45(3):225-7.

Van Zwet AA, Thijs JC, Oom JA, Hoogeveen J, Duringshoff BL. Failure to eradicate Helicobacter pylori in patients with metronidazole-resistant strains. Eur J Gastroenterol Hepatol 1993;5(3): 185-6.

Veereman Wauters G, Ferrell L, Ostroff JW, Heyman MB. Hyperplastic gastric polyps associated with persistent Helicobacter pylori infection and active gastritis. Am J Gastroenterol 1990 Oct;85(10): 1395-7.

Veldhuyzen van Zanten SJ, Goldie J, Hunt RH. Inhibition of Helicobacter pylori by acetohydroxamic acid [letter]. Lancet 1990 Dec 22-29;336(8730):1584-5. Comment on: Lancet 1990 May 19;335(8699):1232.

Vigneri S, Savarino V, Termini R, Mela GS. Eradication of Helicobacter pylori in recurrent duodenal ulcer [letter]. N Engl J Med 1993 Jul 1; 329(1):59-60.

Vigneri S, Termini R, Scialabba A, Pisciotta G, Di Mario F. Omeprazole therapy modifies the gastric localization of Helicobacter pylori [letter]. Am J Gastroenterol 1991 Sep;86(9):1276. Comment on: Am J Gastroenterol 1991 Jan;86(1):124.

Vogt K, Warrelmann M, Hahn H. The minimum inhibitory concentrations of various bismuth salts against Campylobacter pylori. Int J Med Microbiol 1989 Sep;271(3):304-10.

Wagner S, Gebel M, Haruma K, Bar W, Lange P, Freise J, Gladziwa U, Schmidt FW. Bismuth subsalicylate in the treatment of H2 blocker resistant duodenal ulcers: role of Helicobacter pylori. Gut 1992 Feb;33(2):179-83.

Wagner S, Varrentrapp M, Haruma K, Lange P, Muller MJ, Schorn T, Soudah B, Bar W, Gebel M. The role of omeprazole (40 mg) in the treatment of gastric Helicobacter pylori infection. Z Gastroenterol 1991 Nov;29(11):595-8.

Walsh JH. Helicobacter pylori: selection of patients for treatment [editorial]. Ann Intern Med 1992 May 1; 116(9):770-1. Comment on: Ann Intern Med 1992 May 1;116(9):705-8.

Weil J, Bell GD, Powell K, Jobson R, Trowell JE, Gant P, Jones PH. Helicobacter pylori and metronidazole resistance [letter]. Lancet 1990 Dec 8;336(8728):1445.

Weil J, Bell GD, Powell K, Morden A, Harrison G, Gant PW, Jones PH, Trowell JE. Helicobacter pylori infection treated with a tripotassium dicitrato bismuthate and metronidazole combination. Aliment Pharmacol Ther 1990 Dec;4(6):651-7.

Weil J, Bell GD, Powell K, Morden A, Harrison G, Gant PW, Jones PH, Trowell JE. Omeprazole and Helicobacter pylori: temporary suppression rather than true eradication. Aliment Pharmacol Ther 1991 Jun;5(3):309-13.

Weil J, Bell GD, Powell K, Morden A, Harrison G, Gant PW, Trowell JE, Burridge S. Helicobacter pylori: treatment with combinations of pivampicillin and tripotassium dicitrato bismuthate. Aliment Pharmacol Ther 1991 Oct;5(5):543-7.

Westblom TU, Duriex DE. Enhancement of antibiotic concentrations in gastric mucosa by H2-receptor antagonist. Implications for treatment of Helicobacter pylori infections. Dig Dis Sci 1991 Jan;36(1):25-8.

Wilairatana S, Israsena S, Kladchareon N. Diagnostic approaches and treatment of peptic ulcer at Chulalongkorn University Hospital, Bangkok. Gastroenterol Jpn 1991 Jul;26 Suppl 3:275-7.

Wilson DE. Gastroduodenal ulcers: causes, diagnosis, prevention, and treatment. Compr Ther 1990 May; 16(5):43-53.

Wormsley KG. [Effectiveness and safety of long-term H2-receptor antagonist maintenance therapy]. Orv Hetil 1992 Nov 22;133(47):3013-7. (Hun).

Wormsley KG. Long-term treatment of duodenal ulcer. Postgrad Med J 1988;64 Suppl 1:47-53.

Wormsley KG. Maintenance therapy for peptic ulcer disease. Aliment Pharmacol Ther 1991;5 Suppl 1: 37-47.

Wormsley KG. Maintenance treatment with H2 receptor antagonists in patients with peptic ulcer disease: reduces morbidity in a significant minority of patients. BMJ 1988 Nov 26;297(6660):1392, 1394.

Wormsley KG. Making mesmerizing statements ... (about the toxic effects of anti-ulcer drugs, such as bismuth-containing preparations) [letter]. Aliment Pharmacol Ther 1990 Feb;4(1):101. Comment on: Aliment Pharmacol Ther 1989 Aug;3(4):409-13.

Wotherspoon AC, Doglioni C, Diss TC, Pan L, Moschini A, de Boni M, Isaacson PG. Regression of primary low-grade B-cell gastric lymphoma of mucosa-associated lymphoid tissue type after eradication of Helicobacter pylori. Lancet 1993 Sep 4;342(8871):575-7. Comment in: Lancet 1993 Sep 4;342(8871):568.

Xia H, Daw MA, Sant S, Beattie S, Keane CT, O'Morain CA. Clinical efficacy of triple therapy in Helicobacter pylori-associated duodenal ulcer. Eur J Gastroenterol Hepatol 1993;5(3):141-4.

Yates S, Barnett C, Peterson WL. Enteric-coated charcoal as a means of blinding studies comparing bismuth and H2-receptor antagonists. Am J Gastroenterol 1992 Aug;87(8):981-4. Comment in: Am J Gastroenterol 1993 Mar;88(3):459.

Zheng ZT, Wang YB. Treatment of peptic ulcer disease with furazolidone. J Gastroenterol Hepatol 1992 Sep-Oct;7(5):533-7.

Ziller SA 3d, Netchvolodoff CV. Uncomplicated peptic ulcer disease. An overview of formation and treatment principles. Postgrad Med 1993 Mar;93(4): 126-8, 131-2, 137-40.

## EPIDEMIOLOGY

al-Moagel MA, Evans DG, Abdulghani ME, Adam E, Evans DJ Jr, Malaty HM, Graham DY. Prevalence of Helicobacter (formerly Campylobacter) pylori infection in Saudia Arabia, and comparison of those with and without upper gastrointestinal symptoms. Am J Gastroenterol 1990 Aug;85(8):944-8.

Andersen LP, Elsborg L, Justesen T. Campylobacter pylori in peptic ulcer disease. III. Symptoms and paraclinical and epidemiologic findings. Scand J Gastroenterol 1988 Apr;23(3):347-50.

Andreica V, Sasca N, Dumitrascu D, Draghici A, Pascu O, Sasca C, Gorgan V, Ban A. Campylobacter pylori infection in gastric and duodenal ulcer. Med Interne 1988 Oct-Dec; 26(4):297-303.

Asaka M, Kimura T, Kudo M, Takeda H, Mitani S, Miyazaki T, Miki K, Graham DY. Relationship of Helicobacter pylori to serum pepsinogens in an asymptomatic Japanese population. Gastroenterology 1992 Mar;102(3):760-6.

Bartle B, Marshall B. Role of helicobacter pylori -- in gastroduodenal disease. OCP 1993;20(1):7-9.

Befrits R, Granstrom M, Rylander M, Rubio C. Helicobacter pylori in 205 consecutive endoscopy patients. Scand J Infect Dis 1993;25(2):185-91.

Blaser MJ. Epidemiology and pathophysiology of Campylobacter pylori infections. Rev Infect Dis 1990 Jan-Feb;12 Suppl 1:S99-106.

Blaser MJ. Type B gastritis, aging, and Campylobacter pylori. Arch Intern Med 1988 May;148(5):1021-2.

Blomberg B, Jarnerot G, Kjellander J, Danielsson D, Kraaz W. Prevalence of Campylobacter pylori in an unselected Swedish population of patients referred for gastroscopy. Scand J Gastroenterol 1988 Apr; 23(3):358-62.

Bode G, Malfertheiner P, Strohle A, Mauch F, Nilius M, Ditschuneit H. [Polymorphism in Helicobacter pylori--a key function in recurrence of infection?]. Med Klin 1992 Apr 15;87(4):179-84. (Ger).

Borody TJ, George LL, Brandl S, Andrews P, Jankiewicz E, Ostapowicz N. Smoking does not contribute to duodenal ulcer relapse after Helicobacter pylori eradication. Am J Gastroenterol 1992 Oct;87(10):1390-3. Comment in: Am J Gastroenterol 1992 Oct;87(10):1365-7.

Britt DP, Barakat MH, Tungekar MF, Painchaud SM, Adlouni M, Kern K, Malhas L. Helicobacter pylori in dyspeptic patients in Kuwait. J Clin Pathol 1990 Dec;43(12):987-91.

Bujanover Y, Konikoff F, Baratz M. Nodular gastritis and Helicobacter pylori. J Pediatr Gastroenterol Nutr 1990 Jul;11(1):41-4. Comment in: J Pediatr Gastroenterol Nutr 1991 Feb;12(2):292-3.

Burstein M, Monge E, Leon-Barua R, Lozano R, Berendson R, Gilman RH, Legua H, Rodriguez C. Low peptic ulcer and high gastric cancer prevalence in a developing country with a high prevalence of infection by Helicobacter pylori. J Clin Gastroenterol 1991 Apr;13(2):154-6.

Buruk F, Berberoglu U, Pak I, Aksaz E, Celen O. Gastric cancer and Helicobacter pylori infection. Br J Surg 1993 Mar;80(3):378-9.

Campylobacter pylori gastritis and peptic ulcer in children [letter]. Am J Dis Child 1989 Aug;143(8): 877-8. Comment on: Am J Dis Child 1988 Nov; 142(11):1149-52.

Carneiro F, Taveira-Gomes A, Cabral-Correia A, Vasconcelos-Teixeira A, Barreira R, Cardoso-Oliveira M, Sobrinho-Simoes M. Characteristics of the gastric mucosa of direct relatives of patients with sporadic gastric carcinoma. Eur J Cancer Prev 1993 May;2(3):239-46.

Chang FY, Lai KH, Wang TF, Lee FY, Lee SD, Tsai YT. Serum pepsinogen I levels of gastric ulcer patients are determined by the location of the ulcer crater. Gastroenterol Jpn 1992 Feb;27(1):9-14.

Cheng EH, Bermanski P, Silversmith M, Valenstein P, Kawanishi H. Prevalence of Campylobacter pylori in esophagitis, gastritis, and duodenal disease. Arch Intern Med 1989 Jun;149(6):1373-5. Comment in: Arch Intern Med 1990 May;150(5):1132, 1134.

Clausen MR, Franzmann MB, Holst C, Sorensen TI, Christoffersen P, Matzen P, Krag E. Longitudinal study of influence of Helicobacter pylori on current risk of duodenal ulcer relapse. The Hvidovre Ulcer Project Group. Scand J Gastroenterol 1992 May; 27(5):421-6.

Correa P, Fontham E, Chen V, Craig JF, Falk R, Pickle LW. Diet, nutrition, and cancer. J La State Med Soc 1988 Apr;140(4):43-9.

Correa P, Ruiz B, Hunter F. Clinical trials as etiologic research tools in Helicobacter-associated gastritis. Scand J Gastroenterol Suppl 1991;181:15-9.

Craven JL. Gastric cancer. Curr Opin Gastroenterol 1991;7(6):933-8.

Cryer B, Faust TW, Goldschmiedt M, Redfern JS, Lee E, Feldman M. Gastric and duodenal mucosal prostaglandin concentrations in gastric or duodenal ulcer disease: relationships with demographics, environmental, and histological factors, including Helicobacter pylori. Am J Gastroenterol 1992 Dec; 87(12):1747-54.

Dehesa M, Dooley CP, Cohen H, Fitzgibbons PL, Perez-Perez GI, Blaser MJ. High prevalence of

Helicobacter pylori infection and histologic gastritis in asymptomatic Hispanics. J Clin Microbiol 1991 Jun;29(6):1128-31.

Desai HG. What does the absence of Helicobacter pylori from the antrum imply? [editorial]. J Clin Gastroenterol 1991 Oct;13(5):493-4.

Doglioni C, Wotherspoon AC, Moschini A, de Boni M, Isaacson PG. High incidence of primary gastric lymphoma in northeastern Italy. Lancet 1992 Apr 4; 339(8797):834-5. Comment in: Lancet 1992 Jul 18; 340(8812):186-7.

Dooley CP. Helicobacter pylori: review of research findings. Aliment Pharmacol Ther 1991;5 Suppl 1: 129-43.

Drumm B. Helicobacter pylori in the pediatric patient. Gastroenterol Clin North Am 1993 Mar;22(1): 169-82.

Drumm B, Perez-Perez GI, Blaser MJ, Sherman PM. Intrafamilial clustering of Helicobacter pylori infection. N Engl J Med 1990 Feb 8;322(6):359-63.

Dwyer B, Kaldor J, Tee W, Marakowski E, Raios K. Antibody response to Campylobacter pylori in diverse ethnic groups. Scand J Infect Dis 1988; 20(3):349-50.

Edge DP. Peptic ulcer in New Zealand. Gastroenterol Jpn 1991 Jul;26 Suppl 3:262-4.

Feng YY, Wang Y. Campylobacter pylori in patients with gastritis, peptic ulcer, and carcinoma of the stomach in Lanzhou, China [letter]. Lancet 1988 May 7;1(8593):1055.

Fennerty MB, Emerson JC, Sampliner RE, McGee DL, Hixson LJ, Garewal HS. Gastric intestinal metaplasia in ethnic groups in the southwestern United States. Cancer Epidemiol Biomarkers Prev 1992 May-Jun;1(4):293-6.

Fiedorek SC, Malaty HM, Evans DL, Pumphrey CL, Casteel HB, Evans DJ Jr, Graham DY. Factors influencing the epidemiology of Helicobacter pylori infection in children. Pediatrics 1991 Sep;88(3): 578-82.

Fong TL, Dooley CP, Dehesa M, Cohen H, Carmel R, Fitzgibbons PL, Perez-Perez GI, Blaser MJ. Helicobacter pylori infection in pernicious anemia: a prospective controlled study. Gastroenterology 1991 Feb;100(2):328-32. Comment in: Gastroenterology 1991 Nov;101(5):1454-5; Gastroenterology 1991 Dec;101(6):1759.

Forman D, Newell DG, Fullerton F, Yarnell JW, Stacey AR, Wald N, Sitas F. Association between infection with Helicobacter pylori and risk of gastric cancer: evidence from a prospective investigation. BMJ 1991 Jun 1;302(6788):1302-5. Comment in: BMJ 1991 Jun 22;302(6791):1534.

Forman D, Sitas F, Newell DG, Stacey AR, Boreham J, Peto R, Campbell TC, Li J, Chen J. Geographic association of Helicobacter pylori antibody prevalence and gastric cancer mortality in rural China. Int J Cancer 1990 Oct 15;46(4):608-11.

Fox JG, Correa P, Taylor NS, Thompson N, Fontham E, Janney F, Sobhan M, Ruiz B, Hunter F. High prevalence and persistence of cytotoxin-positive Helicobacter pylori strains in a population with high prevalence of atrophic gastritis. Am J Gastroenterol 1992 Nov;87(11):1554-60.

Fox JG, Paster BJ, Dewhirst FE, Taylor NS, Yan LL, Macuch PJ, Chmura LM. Helicobacter mustelae isolation from feces of ferrets: Evidence to support fecal oral transmission of a gastric helicobacter. Infect Immun 1991 Feb;60(2):606-11.

Fukao A, Komatsu S, Tsubono Y, Hisamichi S, Ohori H, Kizawa T, Ohsato N, Fujino N, Endo N, Iha M. Helicobacter pylori infection and chronic atrophic gastritis among Japanese blood donors: a cross-sectional study. Cancer Causes Control 1993 Jul; 4(4):307-12.

Fukuda Y, Yamamoto I, Inoue H, Mikami J, Tamura K, Satomi M, Shimoyama T. [Campylobacter pylori in patients with gastroduodenal disease]. Gan To Kagaku Ryoho 1990 Apr;17(4 Pt 1):575-88. (Jpn).

Gabay G, Novis BH, Pomeranz IS, Bernheim J, Leichtmann G, Peri M, Avni A. Helicobacter pylori infection--its prevalence and diagnosis in Israel. Isr J Med Sci 1991 Jun;27(6):335-7.

Glassman MS, Dallal S, Berezin SH, Bostwick HE, Newman LJ, Perez-Perez GI, Blaser MJ. Helicobacter pylori-related gastroduodenal disease in children. Diagnostic utility of enzyme-linked immunosorbent assay. Dig Dis Sci 1990 Aug;35(8): 993-7.

Glise H. Epidemiology in peptic ulcer disease. Current status and future aspects. Scand J Gastroenterol Suppl 1990;175:13-8.

Glupczynski Y, Bourdeaux L, De Prez C, De Vos D, Devreker T, Balegamire B, Goossens H, Van Den Borre C, Butzler JP. Prevalence of Helicobacter pylori in rural Kivu, eastern Zaire: A prospective endoscopic study. Eur J Gastroenterol Hepatol 1991;3(6):449-55.

Goh KL, Peh SC, Wong NW, Parasakthi N, Puthucheary SD. Campylobacter pylori infection: experience in a multiracial population. J Gastroenterol Hepatol 1990 May-Jun;5(3):277-80.

Goodwin CS, Worsley B. Peptic ulcer disease and Helicobacter pylori infection. Curr Opin Gastroenterol 1992;8(1):122-7.

Graham DY. Helicobacter pylori: its epidemiology and its role in duodenal ulcer disease. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):105-13.

Graham DY. Helicobacter pylori, the bacterial cause of peptic ulcers and its potential impact on dental workers. J Gt Houst Dent Soc 1991 Feb;63(2):3-4.

Graham DY, Adam E, Reddy GT, Agarwal JP, Agarwal R, Evans DJ Jr, Malaty HM, Evans DG. Seroepidemiology of Helicobacter pylori infection in India. Comparison of developing and developed countries. Dig Dis Sci 1991 Aug;36(8):1084-8.

Graham DY, Klein PD, Opekun AR, Boutton TW. Effect of age on the frequency of active Campylobacter pylori infection diagnosed by the [13C]urea breath test in normal subjects and patients with peptic ulcer disease. J Infect Dis 1988 Apr;157(4):777-80.

Graham DY, Lidsky MD, Cox AM, Evans DJ Jr, Evans DG, Alpert L, Klein PD, Sessoms SL, Michaletz PA, Saeed ZA. Long-term nonsteroidal antiinflammatory drug use and Helicobacter pylori infection. Gastroenterology 1991 Jun;100(6): 1653-7.

Graham DY, Malaty HM, Evans DG, Evans DJ Jr, Klein PD, Adam E. Epidemiology of Helicobacter pylori in an asymptomatic population in the United States. Effect of age, race, and socioeconomic status. Gastroenterology 1991 Jun;100(6):1495-501.

Green LK, Graham DY. Gastritis in the elderly. Gastroenterol Clin North Am 1990 Jun;19(2): 273-92.

Greenberg RE, Bank S. The prevalence of Helicobacter pylori in nonulcer dyspepsia. Importance of stratification according to age. Arch Intern Med 1990 Oct;150(10):2053-5. Comment in: Arch Intern Med 1991 Jul;151(7):1462; Arch Intern Med 1991 Nov;151(11):2313-4.

Griffith JL, Cummings OW, Hirschowitz BI. Development of sustained achlorhydria in a patient with the Zollinger-Ellison syndrome treated with omeprazole. Published erratum appears in Gastroenterology 1992 Mar;102(3):1096. Gastroenterology 1991 Jul;101(1):242-6.

Hardikar W, Davidson PM, Cameron DJ, Gilbert GL, Campbell PE, Smith AL. Helicobacter pylori infection in children. J Gastroenterol Hepatol 1991 Sep-Oct;6(5):450-4.

Hassall E, Dimmick JE. Unique features of Helicobacter pylori disease in children. Dig Dis Sci 1991 Apr;36(4):417-23.

Holcombe C. Helicobacter pylori: the African enigma. Gut 1992 Apr;33(4):429-31.

Holcombe C, Lucas SB, Umar H, Abba A. Helicobacter (= Campylobacter) pylori in Africa. Trans R Soc Trop Med Hyg 1990 Mar-Apr;84(2): 294-6.

Holcombe C, Omotara BA, Eldridge J, Jones DM. H. pylori, the most common bacterial infection in Africa: a random serological study. Am J Gastroenterol 1992 Jan;87(1):28-30.

Hornick RB. Campylobacter pylori: its role in gastritis and peptic ulcer disease. Curr Clin Top Infect Dis 1989;10:157-73.

An international association between Helicobacter pylori infection and gastric cancer. The EUROGAST Study Group. Published erratum appears in Lancet 1993 Jun 26;341(8861):1668. Lancet 1993 May 29;341(8857):1359-62.

Iserhard R, Freise J, Wagner S, Bokemeyer B, Weissbrodt H, Fritsch RS, Soudah B, Schmidt FW. Epidemiology and treatment of gastric Campylobacter pylori infection: more questions than answers. Hepatogastroenterology 1990 Dec; 37 Suppl 2:38-44.

Judd RH. Helicobacter pylori, gastritis, and ulcers in pediatrics. Adv Pediatr 1992;39:283-306.

Kachintorn U, Luengrojanakul P, Atisook K, Theerabutra C, Tanwandee T, Boonyapisit S, Chinapak O. Helicobacter pylori and peptic ulcer diseases: prevalence and association with antral gastritis in 210 patients. J Med Assoc Thai 1992 Jul;75(7):386-92.

Kang JY, Wee A, Math MV, Guan R, Tay HH, Yap I, Sutherland IH. Helicobacter pylori and gastritis in patients with peptic ulcer and non-ulcer dyspepsia: ethnic differences in Singapore. Gut 1990 Aug; 31(8):850-3.

Katelaris PH, Tippett GH, Norbu P, Lowe DG, Brennan R, Farthing MJ. Dyspepsia, Helicobacter pylori, and peptic ulcer in a randomly selected population in India. Gut 1992 Nov;33(11):1462-6.

Kekki M, Sipponen P, Siurala M, Laszewicz W. Peptic ulcer and chronic gastritis: their relation to age and sex, and to location of ulcer and gastritis. Gastroenterol Clin Biol 1990;14(3):217-23.

Kist M. [Epidemiology and diagnosis of Helicobacter pylori infection]. Z Gastroenterol Verh 1991 Mar; 26:286-9. (Ger).

Klein PD, Graham DY, Gaillour A, Opekun AR, Smith EO. Water source as risk factor for Helicobacter pylori infection in Peruvian children. Gastrointestinal Physiology Working Group. Lancet 1991 Jun 22;337(8756):1503-6.

Kneller RW, Guo WD, Hsing AW, Chen JS, Blot WJ, Li JY, Forman D, Fraumeni JF Jr. Risk factors for stomach cancer in sixty-five Chinese counties.

Cancer Epidemiol Biomarkers Prev 1992 Jan-Feb; 1(2):113-8.

Kobayashi K. [Recurrence of peptic ulcers and risk factors]. Nippon Naika Gakkai Zasshi 1991 Jan 10; 80(1):31-6. (Jpn).

Konikoff F, Tiomny E, Bujanover Y, Gorea A, Moshkowitz M, Baratz M. An endoscopic study of Campylobacter pylori in an Israeli population. Isr J Med Sci 1989 Nov;25(11):661-3.

Krajden S, Fuksa M, Anderson J, Kempston J, Boccia A, Petrea C, Babida C, Karmali M, Penner JL. Examination of human stomach biopsies, saliva, and dental plaque for Campylobacter pylori. J Clin Microbiol 1989 Jun;27(6):1397-8.

La Vecchia C, Lucchini F, Negri E, Reggi V, Levi F. The impact of therapeutic improvements in reducing peptic ulcer mortality in Europe. Int J Epidemiol 1993 Feb;22(1):96-106.

Labenz J, Borsch G. [Helicobacter pylori: from harmless commensal to clinically significant disease factor]. Dtsch Med Wochenschr 1992 Jun 19; 117(25):997-9. (Ger).

Lam SK. Peptic ulcer: from epidemiology to cause. J Gastroenterol Hepatol 1989;4 Suppl 2:1-6.

Langenberg W, Rauws EA, Oudbier JH, Tytgat GN. Patient-to-patient transmission of Campylobacter pylori infection by fiberoptic gastroduodenoscopy and biopsy. J Infect Dis 1990 Mar;161(3):507-11.

Latif AH, Shami SK, Batchoun R, Murad N, Sartawi O. Helicobacter pylori: a Jordanian study. Postgrad Med J 1991 Nov;67(793):994-8.

Lee A, Fox JG, Otto G, Hegedus Dick E, Krakowka S. Transmission of Helicobacter spp. A challenge to the dogma of faecal oral spread. Epidemiol Infect 1991 Aug;107(1):99-109.

Levi S, Beardshall K, Desa LA, Calam J. Campylobacter pylori, gastrin, acid secretion, and duodenal ulcers [letter]. Lancet 1989 Sep 9; 2(8663):613.

Levi S, Davies KA, Playford RA, Ghosh P, Price MJ, Calam J, Walport MJ. Antral Campylobacter pylori colonization, ABO blood group, and secretor status [letter]. Gastroenterol Clin Biol 1989 Dec;13(12): 1095.

Li YY, Hu PJ, Du GG, Hazell SL. The prevalence of Helicobacter pylori infection in the Peoples Republic of China. Am J Gastroenterol 1991 Apr; 86(4):446-9.

Lindell G, Hesselvik M, Schalen C, Wikander M, Graffner H. Helicobacter pylori smoking and gastroduodenitis. Digestion 1991;49(4):192-7.

Loeb DS, Talley NJ, Ahlquist DA, Carpenter HA, Zinsmeister AR. Long-term nonsteroidal anti-inflammatory drug use and gastroduodenal injury: the role of Helicobacter pylori. Gastroenterology 1992 Jun;102(6):1899-905.

Loffeld RJ, Loffeld BC, Arends JW, Flendrig JA, van Spreeuwel JP. Retrospective study of Campylobacter-like organisms in patients undergoing partial gastrectomy. J Clin Pathol 1988 Dec;41(12):1313-5.

Loffeld RJ, Peltenburg HG, v.d. Oever H, Stobberingh E. Prevalence of Helicobacter pylori antibodies in patients on chronic intermittent haemodialysis. Nephron 1991;59(2):250-3.

Lonardo A, Grisendi A. Helicobacter pylori in migrants [letter]. Recenti Prog Med 1991 Apr;82(4):251.

Lule GN, Sang F, Ogutu EO. Helicobacter pylori in peptic ulcer disease in Kenya. East Afr Med J 1991 May;68(5):324-7.

Maaroos HI, Kekki M, Sipponen P, Salupere V, Villako K. Grade of Helicobacter pylori colonisation, chronic gastritis and relative risks of contracting high gastric ulcers: a seven-year follow-up. Scand J Gastroenterol Suppl 1991;186:65-72.

Maaroos HI, Kekki M, Villako K, Sipponen P, Tamm A, Sadeniemi L. The occurrence and extent of Helicobacter pylori colonization and antral and body gastritis profiles in an Estonian population sample. Scand J Gastroenterol 1990 Oct;25(10):1010-7.

Maaroos HI, Rago T, Sipponen P, Siurala M. Helicobacter pylori and gastritis in children with abdominal complaints. Scand J Gastroenterol Suppl 1991;186:95-9.

Maaroos KhI, Villako KP, Sipponen P, Kekki M, Siurala M, Tammur RKh, Tamm AO, Savisaar EV, Viirsalu VT. [Helicobacter pylori and chronic gastritis in the gastric biopsy material in a group of randomly selected adult inhabitants of Estonia]. Arkh Patol 1990;52(10):9-11. (Rus).

Mahony MJ, Wyatt JI, Littlewood JM. Management and response to treatment of Helicobacter pylori gastritis. Arch Dis Child 1992 Jul;67(7):940-3.

Malaty HM, Evans DG, Evans DJ Jr, Graham DY. Helicobacter pylori in Hispanics: comparison with blacks and whites of similar age and socioeconomic class. Gastroenterology 1992 Sep;103(3):813-6.

Malaty HM, Evans DJ Jr, Abramovitch K, Evans DG, Graham DY. Helicobacter pylori infection in dental workers: a seroepidemiology study. Am J Gastroenterol 1992 Dec;87(12):1728-31.

Malaty HM, Graham DY, Klein PD, Evans DG, Adam E, Evans DJ. Transmission of Helicobacter pylori infection. Studies in families of healthy individuals. Scand J Gastroenterol 1991 Sep;26(9):927-32.

Marano BJ Jr, Smith F, Bonanno CA. Helicobacter pylori prevalence in acquired immunodeficiency syndrome. Am J Gastroenterol 1993 May;88(5): 687-90.

Marshall BJ. The Campylobacter pylori story. Scand J Gastroenterol Suppl 1988;146:58-66.

Martin DF, Montgomery E, Dobek AS, Patrissi GA, Peura DA. Campylobacter pylori, NSAIDS, and smoking: risk factors for peptic ulcer disease. Am J Gastroenterol 1989 Oct;84(10):1268-72.

Maxton DG, Srivastava ED, Whorwell PJ, Jones DM. Do non-steroidal anti-inflammatory drugs or smoking predispose to Helicobacter pylori infection? Postgrad Med J 1990 Sep;66(779):717-9.

McCarthy DM. Acid peptic disease in the elderly. Clin Geriatr Med 1991 May;7(2):231-54.

McCarthy DM. Helicobacter pylori infection and gastroduodenal injury by non-steroidal anti-inflammatory drugs. Scand J Gastroenterol Suppl 1991;187:91-7.

Megraud F, Brassens-Rabbe MP, Denis F, Belbouri A, Hoa DQ. Seroepidemiology of Campylobacter pylori infection in various populations. J Clin Microbiol 1989 Aug;27(8):1870-3.

Mentis A, Blackwell CC, Weir DM, Spiliadis C, Dailianas A, Skandalis N. ABO blood group, secretor status and detection of Helicobacter pylori among patients with gastric or duodenal ulcers. Epidemiol Infect 1991 Apr;106(2):221-9.

Meyer B, Werth B, Beglinger C, Dill S, Drewe J, Vischer WA, Eggers RH, Bauer FE, Stalder GA. Helicobacter pylori infection in healthy people: a dynamic process? Gut 1991 Apr;32(4):347-50.

Mitchell HM, Bohane TD, Tobias V, Bullpitt P, Daskalopoulos G, Carrick J, Mitchell JD, Lee A. Helicobacter pylori infection in children: potential clues to pathogenesis. J Pediatr Gastroenterol Nutr 1993 Feb;16(2):120-5. Comment in: J Pediatr Gastroenterol Nutr 1993 Feb;16(2):118-9.

Mitchell JD, Mitchell HM, Tobias V. Acute Helicobacter pylori infection in an infant, associated with gastric ulceration and serological evidence of intra-familial transmission. Am J Gastroenterol 1992 Mar;87(3):382-6.

Nomura A, Stemmermann GN, Chyou PH, Kato I, Perez-Perez GI, Blaser MJ. Helicobacter pylori infection and gastric carcinoma among Japanese Americans in Hawaii. N Engl J Med 1991 Oct 17; 325(16):1132-6. Comment in: N Engl J Med 1991 Oct 17;325(16):1170-1.

Oderda G, Vaira D. Helicobacter pylori infection in childhood. Acta Endosc 1991;21(1):43-9.

Oderda G, Vaira D, Ainley C, Holton J, Osborn J, Altare F, Ansaldi N. Eighteen month follow up of Helicobacter pylori positive children treated with amoxycillin and tinidazole. Gut 1992 Oct;33(10): 1328-30.

Oderda G, Vaira D, Holton J, Ainley C, Altare F, Boero M, Smith A, Ansaldi N. Helicobacter pylori in children with peptic ulcer and their families. Dig Dis Sci 1991 May;36(5):572-6.

Olusanya O. Immunological response to Helicobacter pylori among Nigerians. Trop Geogr Med 1991 Jan-Apr;43(1-2):28-32.

O'Riordan TG, Tobin A, O'Morain C. Helicobacter pylori infection in elderly dyspeptic patients. Age Ageing 1991 May;20(3):189-92.

Ormand JE, Talley NJ, Shorter RG, Conley CR, Carpenter HA, Fich A, Wilson WR, Phillips SF. Prevalence of Helicobacter pylori in specific forms of gastritis. Further evidence supporting a pathogenic role for H. pylori in chronic nonspecific gastritis. Dig Dis Sci 1991 Feb;36(2):142-5. Comment in: Dig Dis Sci 1992 Jun;37(6):962; Dig Dis Sci 1992 Aug;37(8):1304-5.

Palli D, Decarli A, Cipriani F, Sitas F, Forman D, Amadori D, Avellini C, Giacosa A, Manca P, Russo A, et al. Helicobacter pylori antibodies in areas of Italy at varying gastric cancer risk. Cancer Epidemiol Biomarkers Prev 1993 Jan-Feb; 2(1): 37-40.

Pardo-Mindan FJ, Joly M, Robledo C, Sola J, Valerdiz S. Duodenal ulcer epidemic in a pathology department [letter]. Lancet 1989 Jan 21; 1(8630): 153.

Parsonnet J, Blaser MJ, Perez-Perez GI, Hargrett-Bean N, Tauxe RV. Symptoms and risk factors of Helicobacter pylori infection in a cohort of epidemiologists. Gastroenterology 1992 Jan;102(1): 41-6.

Penston JG, Boyd EJ, Wormsley KG. Complications associated with ulcer recurrence following gastric surgery for ulcer disease. Gastroenterol Jpn 1992 Feb;27(1):129-41.

Perez-Perez GI, Taylor DN, Bodhidatta L, Wongsrichanalai J, Baze WB, Dunn BE, Echeverria PD, Blaser MJ. Seroprevalence of Helicobacter pylori infections in Thailand. J Infect Dis 1990 Jun;161(6):1237-41.

Perez-Perez GI, Witkin SS, Decker MD, Blaser MJ. Seroprevalence of helicobacter pylori infection in couples. J Clin Microbiol 1991 Mar;29(3):642-4.

Polish LB, Douglas JM Jr, Davidson AJ, Perez-Perez GI, Blaser MJ. Characterization of risk factors for Helicobacter pylori infection among men attending a sexually transmitted disease clinic: lack of evidence for sexual transmission. J Clin Microbiol 1991 Oct; 29(10):2139-43.

Prieto G, Polanco I, Larrauri J, Rota L, Lama R, Carrasco S. Helicobacter pylori infection in children: clinical, endoscopic, and histologic correlations. J Pediatr Gastroenterol Nutr 1992 May;14(4):420-5.

Queiroz DM, Barbosa AJ, Mendes EN, Rocha GA, Cisalpino EO, Lima GF Jr, Oliveira CA. Distribution of Campylobacter pylori and gastritis in the stomach of patients with and without duodenal ulcer. Am J Gastroenterol 1988 Dec;83(12): 1368-70.

Radhakrishnan S, al Nakib B, Kalaoui M, Patric J. Helicobacter pylori-associated gastritis in Kuwait: endoscopy-based study in symptomatic and asymptomatic children. J Pediatr Gastroenterol Nutr 1993 Feb;16(2):126-9.

Radke M. [Clinical importance of Helicobacter pylori infections in childhood]. Kinderarztl Prax 1992 Dec;60(9-10):265-8. (Ger).

Recavarren-Arce S, Leon-Barua R, Cok J, Berendson R, Gilman RH, Ramirez-Ramos A, Rodriguez C, Spira WM. Helicobacter pylori and progressive gastric pathology that predisposes to gastric cancer. Scand J Gastroenterol Suppl 1991;181:51-7.

Rios-Castellanos E, Sitas F, Shepherd NA, Jewell DP. Changing pattern of gastric cancer in Oxfordshire. Gut 1992 Oct;33(10):1312-7.

Robey-Cafferty SS, Ro JY, Cleary KR. The prevalence of Campylobacter pylori in gastric biopsies from cancer patients. Mod Pathol 1989 Sep;2(5):473-6.

Rothstein RD, Talbot GH, Saul SH, Nachamkin I, Ouyang A. Prevalence of Campylobacter pylori in a tertiary care hospital in the mid-Atlantic United States [letter]. Arch Intern Med 1990 May;150(5): 1132, 1134. Comment on: Arch Intern Med 1989 Jun;149(6):1373-5.

Safe AF, Warren B, Corfield A, McNulty CA, Watson B, Mountford RA, Read A. Helicobacter pylori infection in elderly people: correlation between histology and serology. Age Ageing 1993 May; 22(3):215-20.

Satti MB, Twum-Danso K, al-Freihi HM, Ibrahim EM, al-Gindan Y, al-Quorain A, al-Ghassab G, al-Hamdan A, al-Idrissi HY. Helicobacter pylori-associated upper gastrointestinal disease in Saudi Arabia: a pathologic evaluation of 298 endoscopic biopsies from 201 consecutive patients. Am J Gastroenterol 1990 May;85(5):527-34.

Schubert TT, Schnell GA. Prevalence of Campylobacter pylori in patients undergoing upper endoscopy. Am J Gastroenterol 1989 Jun;84(6):637-42.

Sierra R, Munoz N, Pena AS, Biemond I, van Duijn W, Lamers CB, Teuchmann S, Hernandez S, Correa P. Antibodies to Helicobacter pylori and pepsinogen levels in children from Costa Rica: comparison of two areas with different risks for stomach cancer. Cancer Epidemiol Biomarkers Prev 1992 Sep-Oct;1(6):449-54.

Sipponen P. Chronic gastritis and ulcer risk. Scand J Gastroenterol 1990 Mar;25(3):193-6.

Sipponen P. Helicobacter pylori and chronic gastritis: an increased risk of peptic ulcer? A review. Scand J Gastroenterol Suppl 1991;186:6-10.

Sipponen P, Varis K, Fraki O, Korri UM, Seppala K, Siurala M. Cumulative 10-year risk of symptomatic duodenal and gastric ulcer in patients with or without chronic gastritis. A clinical follow-up study of 454 outpatients. Scand J Gastroenterol 1990 Oct; 25(10):966-73.

Smoot DT, Scott VF. The role of Helicobacter pylori in the pathogenesis of acid-peptic disease. J Assoc Acad Minor Physicians 1992;3(2):46-9.

Sonnenberg A. [Ulcer epidemiology: old knowledge in a new light]. Ther Umsch 1992 Nov;49(11):726-34. (Ger).

Sonnenberg A. The US temporal and geographic variations of diseases related to Helicobacter pylori. Am J Public Health 1993 Jul;83(7):1006-10.

Sonnenberg A, Chicarro ML. [Peptic ulcer in the United States]. Rev Esp Enferm Dig 1991 May; 79(5):341-9. (Spa).

Sonnenberg A, Wasserman IH, Jacobsen SJ. Monthly variation of hospital admission and mortality of peptic ulcer disease: a reappraisal of ulcer periodicity. Gastroenterology 1992 Oct;103(4): 1192-8.

Strauss RM, Wang TC, Kelsey PB, Compton CC, Ferraro MJ, Perez-Perez G, Parsonnet J, Blaser MJ. Association of Helicobacter pylori infection with dyspeptic symptoms in patients undergoing gastroduodenoscopy. Am J Med 1990 Oct;89(4): 464-9.

Sullivan PB, Thomas JE. Helicobacter pylori in children. Postgrad Med J 1991 Apr;67(786):330-3.

Taha AS, Morran C, Sturrock RD, Russell RI. The health assessment questionnaire as a predictor of non-steroidal peptic ulceration. Br J Rheumatol 1993 Feb;32(2):135-8.

Talley NJ. Prevalence of Helicobacter pylori in nonulcer dyspepsia [letter]. Arch Intern Med 1991

Nov;151(11):2313-4. Comment on: Arch Intern Med 1990 Oct;150(10):2053-5.

Talley NJ, O'Keefe EA, Zinsmeister AR, Melton LJ 3d. Prevalence of gastrointestinal symptoms in the elderly: a population-based study. Gastroenterology 1992 Mar;102(3):895-901.

Talley NJ, Zinsmeister AR, Schleck CD, Melton LJ 3d. Dyspepsia and dyspepsia subgroups: a population-based study. Gastroenterology 1992 Apr;102 (4 Pt 1):1259-68.

Taylor DN, Blaser MJ. The epidemiology of Helicobacter pylori infection. Epidemiol Rev 1991;13:42-59.

Taylor DN, Echeverria P, Pitarangsi C, Seriwatana J, Bodhidatta L, Blaser MJ. Influence of strain characteristics and immunity on the epidemiology of Campylobacter infections in Thailand. J Clin Microbiol 1988 May;26(5):863-8.

Tewari SN, Cerezo L, Price G. The prevalence of Campylobacter pylori gastritis: a study of symptomatic nonulcer dyspepsia and bile gastritis. J Clin Gastroenterol 1989 Jun;11(3):271-7.

Trevisani L, Pazzi P, Putinati S, Beltrami D, Sartori S, Stabellini G. Helicobacter pylori and the Italian general practitioners [letter]. Gastroenterol Clin Biol 1990;14(3):293-4.

Tsugane S, Kabuto M, Imai H, Gey F, Tei Y, Hanaoka T, Sugano K, Watanabe S. Helicobacter pylori, dietary factors, and atrophic gastritis in five Japanese populations with different gastric cancer mortality. Cancer Causes Control 1993 Jul;4(4): 297-305.

Tytgat GN. Campylobacter pylori: epidemiological considerations. Scand J Gastroenterol Suppl 1989; 160:1-2.

Valle J, Pikkarainen P, Vuoristo M, Sipponen P, Kekki M, Siurala M. Helicobacter pylori and duodenal ulcer. A study of duodenal ulcer patients and their first-degree relatives. Scand J Gastroenterol Suppl 1991;186:45-51.

Veereman-Wauters G, Ferrell L, Heyman MB. Trends in Campylobacter pylori in pediatric and adult antral biopsies. A 5-year retrospective analysis. West J Med 1989 Oct;151(4):406-9.

Vorobjova T, Maaroos HI, Uibo R, Wadstrom T, Wood WG, Sipponen P. Helicobacter pylori: histological and serological study on gastric and duodenal ulcer patients in Estonia. Scand J Gastroenterol Suppl 1991;186:84-9.

Vuoristo M, Pikkarainen P, Samloff IM, Sipponen P, Kekki M, Siurala M. Functional characteristics of duodenal ulcer patients and their first-degree relatives. Scand J Gastroenterol Suppl 1991; 186:52-61.

Wagner S, Freise J, Bar W, Fritsch S, Schmidt FW. [Epidemiology and therapy of Campylobacter pylori infection]. Dtsch Med Wochenschr 1989 Mar 17; 114(11):407-13. (Ger).

Wyatt JI, Rathbone BJ. Is susceptibility to Campylobacter pylori infection genetically determined? [letter]. Lancet 1989 Jun 24;1(8652): 1453.

Wyatt JI, Shallcross TM, Crabtree JE, Heatley RV. Helicobacter pylori, gastritis, and peptic ulceration in the elderly. J Clin Pathol 1992 Dec;45(12): 1070-4.

Wyle FA. Helicobacter pylori: current perspectives. J Clin Gastroenterol 1991;13 Suppl 1:S114-24.

Yoshida M, Imoto I, Suzuki S. [Distribution and prevalence of Campylobacter pylori in the stomach]. Nippon Shokakibyo Gakkai Zasshi 1989 May;86(5):1025-30. (Jpn).

Yoshimura HH, Evans DG, Graham DY. DNA-DNA hybridization demonstrates apparent genetic differences between Helicobacter pylori from patients with duodenal ulcer and asymptomatic gastritis. Dig Dis Sci 1993 Jun;38(6):1128-31.

Zheng T, Mayne ST, Holford TR, Boyle P, Liu W, Chen Y, Mador M, Flannery J. The time trend and age-period-cohort effects on incidence of adenocarcinoma of the stomach in Connecticut from 1955-1989. Cancer 1993 Jul 15;72(2):330-40.

## ETIOLOGY

Bartlett JG. Campylobacter pylori: fact or fancy? Gastroenterology 1988 Jan;94(1):229-32.

Dixon M. Acid, ulcers, and H pylori. Lancet 1993 Aug 14;342(8868):384-5.

Feldman M. Helicobacter pylori and the etiology of duodenal ulcer: necessary but not sufficient [editorial]. Am J Med 1991 Dec;91(6):563-5. Comment on: Am J Med 1991 Dec;91(6):566-72.

Forman D. Helicobacter pylori infection: a novel risk factor in the etiology of gastric cancer [editorial]. J Natl Cancer Inst 1991 Dec 4;83(23):1702-3.

Hornick RB. Campylobacter pylori--a bacterial cause of peptic ulcer disease. Bull N Y Acad Med 1988 Jul-Aug;64(6):529-37.

Loffeld RJ, Arends JW. The role of Helicobacter pylori in non-ulcer dyspepsia and gastritis. Neth J Med 1993 Feb;42(2):73-9.

Loffeld RJ, Potters HV, Arends JW, Stobberingh E, Flendrig JA, van Spreeuwel JP. Campylobacter associated gastritis in patients with non-ulcer dyspepsia. J Clin Pathol 1988 Jan;41(1):85-8.

Maddocks AC. Helicobacter pylori (formerly Campylobacter pyloridis/pylori) 1986-1989: a review. J Clin Pathol 1990 May;43(5):353-6.

Marshall BJ, McCallum RW, Prakash C. Campylobacter pyloridis and gastritis [letter]. Gastroenterology 1987 Jun;92(6):2051.

McKinlay AW, Upadhyay R, Gemmell CG, Russell RI. Helicobacter pylori: bridging the credibility gap. Gut 1990 Aug;31(8):940-5.

Megraud F, Lamouliatte H. Helicobacter pylori and duodenal ulcer. Evidence suggesting causation. Dig Dis Sci 1992 May;37(5):769-72.

Meisner S, Siim C, Kjaergaard J. The role of infections in the pathogenesis of peptic ulcer disease. Acta Chir Scand Suppl 1988;547:35-8.

Neumann JK, Rohrbach MA, Wilhoite S, Thomas E. Helicobacter pylori and pathogenesis of ulceration [letter]. Lancet 1993 Mar 13;341(8846):703.

Ormand JE, Talley NJ. Helicobacter pylori: controversies and an approach to management. Mayo Clin Proc 1990 Mar;65(3):414-26.

Peterson WL. Peptic ulcer--an infectious disease? [clinical conference]. West J Med 1990 Feb;152(2): 167-71.

Rabeneck L, Ransohoff DF. Is Helicobacter pylori a cause of duodenal ulcer? A methodologic critique of current evidence. Am J Med 1991 Dec;91(6): 566-72. Comment in: Am J Med 1991 Dec;91(6): 563-5.

Tsujii M, Kawano S, Tsuji S, Nagano K, Ito T, Hayashi N, Fusamoto H, Kamada T, Tamura K. Ammonia: a possible promotor in Helicobacter pylori-related gastric carcinogenesis. Cancer Lett 1992 Jul 31;65(1):15-8.

Tytgat GN. Helicobacter pylori: causal agent in peptic ulcer disease? Conclusion. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):139-40.

Vaira D, Holton J, Dowsett J, Oderda G, Barbara L. Helicobacter pylori: its role in gastric disease. Dig Dis 1990;8(6):322-36.

Wormsley KG. Campylobacter pylori and ulcer disease--a causal connection? Scand J Gastroenterol Suppl 1989;160:53-8.

Wright JP, Lastovica AJ, Emms M, Penfild SS. Campylobacter pylori and the gastric mucosa. S Afr Med J 1988 Jul 2;74 Suppl:37-8.

Yap I. Helicobacter pylori and gastroduodenal disease. Singapore Med J 1992 Dec;33(6):557-8.

Yeomans ND. Bacteria in ulcer pathogenesis. Baillieres Clin Gastroenterol 1988 Jul;2(3):573-91.

## IMMUNOLOGY

Blaser MJ. Malaria and the natural history of Helicobacter pylori infection [letter]. Lancet 1993 Aug 28;342(8870):551.

Blaser MJ, Olivares A, Taylor DN, Cornblath DR, McKhann GM. Campylobacter serology in patients with Chinese paralytic syndrome [letter]. Lancet 1991 Aug 3;338(8762):308.

Bontkes HJ, Veenendaal RA, Pena AS, Goedhard JG, van Duijn W, Kuiper J, Meijer JL, Lamers CB. IgG subclass response to Helicobacter pylori in patients with chronic active gastritis and duodenal ulcer. Scand J Gastroenterol 1992;27(2):129-33.

Cover TL, Cao P, Murthy UK, Sipple MS, Blaser MJ. Serum neutralizing antibody response to the vacuolating cytotoxin of Helicobacter pylori. J Clin Invest 1992 Sep;90(3):913-8.

Cover TL, Dooley CP, Blaser MJ. Characterization of and human serologic response to proteins in Helicobacter pylori broth culture supernatants with vacuolizing cytotoxin activity. Infect Immun 1990 Mar;58(3):603-10.

Cover TL, Puryear W, Perez-Perez GI, Blaser MJ. Effect of urease on HeLa cell vacuolation induced by Helicobacter pylori cytotoxin. Infect Immun 1991 Apr;59(4):1264-70.

Crabtree JE, Taylor JD, Wyatt JI, Heatley RV, Shallcross TM, Tompkins DS, Rathbone BJ. Mucosal IgA recognition of Helicobacter pylori 120 kDa protein, peptic ulceration, and gastric pathology. Lancet 1991 Aug 10;338(8763):332-5.

Czinn SJ, Cai A, Nedrud JG. Protection of germ-free mice from infection by Helicobacter felis after active oral or passive IgA immunization. Vaccine 1993;11(6):637-42.

Czinn SJ, Nedrud JG. Oral immunization against Helicobacter pylori. Infect Immun 1991 Jul;59(7): 2359-63.

Dunn BE, Roop RM 2d, Sung CC, Sharma SA, Perez-Perez GI, Blaser MJ. Identification and purification of a cpn60 heat shock protein homolog from Helicobacter pylori. Infect Immun 1992 May;60(5): 1946-51.

Dwyer B, Sun NX, Kaldor J, Tee W, Lambert J, Luppino M, Flannery G. Antibody response to Campylobacter pylori in an ethnic group lacking peptic ulceration. Scand J Infect Dis 1988;20(1): 63-8.

Forman D, Newell DG, Fullerton F, Yarnell JW, Stacey AR, Wald N, Sitas F. Association between infection with Helicobacter pylori and risk of gastric cancer: evidence from a prospective investigation. BMJ 1991 Jun 1;302(6788):1302-5. Comment in: BMJ 1991 Jun 22;302(6791):1534.

Hirschl AM, Brandstatter G, Dragosics B, Hentschel E, Kundi M, Rotter ML, Schutze K, Taufer M. Kinetics of specific IgG antibodies for monitoring the effect of anti-Helicobacter pylori chemotherapy. J Infect Dis 1993 Sep;168(3):763-6.

Hussell T, Isaacson PG, Crabtree JE, Spencer J. The response of cells from low-grade B-cell gastric lymphomas of mucosa-associated lymphoid tissue to Helicobacter pylori. Lancet 1993 Sep 4; 342(8871): 571-4. Comment in: Lancet 1993 Sep 4; 342(8871): 568.

Karnes WE Jr, Samloff IM, Siurala M, Kekki M, Sipponen P, Kim SW, Walsh JH. Positive serum antibody and negative tissue staining for Helicobacter pylori in subjects with atrophic body gastritis. Gastroenterology 1991 Jul;101(1):167-74. Comment in: Gastroenterology 1992 Feb;102(2): 744-5.

Kosunen TU, Seppala K, Sarna S, Sipponen P. Diagnostic value of decreasing IgG, IgA, and IgM antibody titres after eradication of Helicobacter pylori. Lancet 1992 Apr 11;339(8798):893-5. Comment in: Lancet 1992 Jul 4;340(8810):51; Lancet 1992 Jul 4;340(8810):51-2.

Mai UE, Perez-Perez GI, Allen JB, Wahl SM, Blaser MJ, Smith PD. Surface proteins from Helicobacter pylori exhibit chemotactic activity for human leukocytes and are present in gastric mucosa. J Exp Med 1992 Feb 1;175(2):517-25.

Mai UE, Perez-Perez GI, Wahl LM, Wahl SM, Blaser MJ, Smith PD. Soluble surface proteins from Helicobacter pylori activate monocytes/macrophages by lipopolysaccharide-independent mechanism. J Clin Invest 1991 Mar;87(3):894-900.

Perez-Perez GI, Dworkin BM, Chodos JE, Blaser MJ. Campylobacter pylori antibodies in humans. Ann Intern Med 1988 Jul 1;109(1):11-7.

Tosi MF, Czinn SJ. Opsonic activity of specific human IgG against Helicobacter pylori. J Infect Dis 1990 Jul;162(1):156-62.

Vaira D, Holton J, Cairns SR, Falzon M, Polydorou A, Dowsett JF, Salmon PR. Antibody titres to Campylobacter pylori after treatment for gastritis. BMJ 1988 Aug 6;297(6645):397.

Xiang Z, Bugnoli M, Rappuoli R, Covacci A, Ponzetto A, Crabtree JE. Helicobacter pylori: host responses in peptic ulceration [letter]. Lancet 1993 Apr 3; 341(8849):900-1. Comment on: Lancet 1993 Jan 30;341(8840):280-1.

Xiao SD, Pan ZJ, Zhang ZH, Jiang SJ. Enzyme-linked immunosorbent assay for detection of immunoglobulin G antibody against Helicobacter pylori. Chin Med J (Engl) 1991 Nov;104(11): 904-8.

## ISOLATION

Cover TL, Blaser MJ. Purification and characterization of the vacuolating toxin from Helicobacter pylori. J Biol Chem 1992 May 25;267(15):10570-5.

Lohr JM, Nelson JA, Oldstone MB. Is herpes simplex virus associated with peptic ulcer disease? J Virol 1990 May;64(5):2168-74.

Queiroz DM, Mendes EN, Rocha GA, Moura SB, Resende LM, Cunha-Melo JR, Coelho LG, Passos MC, Oliveira CA, Lima Junior GF, et al. Histamine content of the oxyntic mucosa from duodenal ulcer patients: effect of Helicobacter pylori eradication. Am J Gastroenterol 1993 Aug;88(8):1228-32.

Tummuru MK, Cover TL, Blaser MJ. Cloning and expression of a high-molecular-mass major antigen of Helicobacter pylori: evidence of linkage to cytotoxin production. Infect Immun 1993 May; 61(5):1799-809.

Walker SJ, Birch PJ, Stewart M, Stoddard CJ, Hart CA, Day DW. Patterns of colonisation of Campylobacter pylori in the oesophagus, stomach and duodenum. Gut 1989 Oct;30(10):1334-8.

Wright JP, Lastovica AJ, Emms M, Penfild SS. Campylobacter pylori and the gastric mucosa. S Afr Med J 1988 Jul 2;74 Suppl:37-8.

Yoshimura HH, Evans DG, Graham DY. DNA-DNA hybridization demonstrates apparent genetic differences between Helicobacter pylori from patients with duodenal ulcer and asymptomatic gastritis. Dig Dis Sci 1993 Jun;38(6):1128-31.

## MICROBIOLOGY


Aitchison M, Bell G. Incidence of Campylobacter pylori in a consecutive series of surgical patients referred for endoscopy. J R Coll Surg Edinb 1990 Oct;35(5):296-8. Comment in: J R Coll Surg Edinb 1991 Dec;36(6):422-3.

Alam K, Schubert TT, Bologna SD, Ma CK. Increased density of Helicobacter pylori on antral biopsy is associated with severity of acute and chronic inflammation and likelihood of duodenal ulceration. Am J Gastroenterol 1992 Apr;87(4):424-8.

Alper J. Ulcers as an infectious disease [news]. Science 1993 Apr 9;260(5105):159-60.

Andersen LP, Elsborg L, Justesen T. Campylobacter pylori in peptic ulcer disease. II. Endoscopic findings and cultivation of C. pylori. Scand J Gastroenterol 1988 Aug;23(6):760-4.

Andersen LP, Holck S, Povlsen CO, Elsborg L, Justesen T. Campylobacter pyloridis in peptic ulcer disease. I. Gastric and duodenal infection caused by C. pyloridis: histopathologic and microbiologic findings. Scand J Gastroenterol 1987 Mar;22(2): 219-24.

Andreica V, Dumitrascu D, Sasca N, Toganel E, Suciu A, Draghici A, Pascu O, Sasca C, Suciu M, Andreica M, et al. Helicobacter-like organisms in gastroduodenal diseases. Gastroenterol Clin Biol 1990;14(5):437-41.

Arnaout AH, Abbas SH, Shousha S. Helicobacter pylori is not identified in areas of gastric metaplasia of gall bladder. J Pathol 1990 Apr;160(4):333-4.

Ascencio F, Fransson LA, Wadstrom T. Affinity of the gastric pathogen Helicobacter pylori for the N-sulphated glycosaminoglycan heparan sulphate. J Med Microbiol 1993 Apr;38(4):240-4.

Axon AT. Helicobacter pylori infection. J Antimicrob Chemother 1993;32 Suppl A:61-8.

Ayyagari A, Ray P, Kochhar R, Bhasin D, Siddeshi ER, Singh K, Malik AK, Mehta SK. Evaluation of different methods for detection of Helicobacter pylori in patients with gastric disease. Indian J Med Res 1990 Mar;91:126-8.

Bank S, Chow K, Greenberg R. Helicobacter pylori and recurrence of duodenal ulcers [editorial]. Am J Gastroenterol 1992 Oct;87(10):1365-7. Comment on: Am J Gastroenterol 1992 Oct;87(10):1390-3.

Barnes RJ, Uff JS, Dent JC, Gear MW, Wilkinson SP. Long-term follow up of patients with gastritis associated with Helicobacter pylori infection. Br J Gen Pract 1991 Jul;41(348):286-8.

Bateson MC. Cigarette smoking and Helicobacter pylori infection. Postgrad Med J 1993 Jan;69(807):41-4.

Bayerdorffer E, Mannes GA, Sommer A, Hochter W, Weingart J, Hatz R, Lehn N, Ruckdeschel G, Dirschedl P, Stolte M. Long-term follow-up after eradication of Helicobacter pylori with a combination of omeprazole and amoxycillin. Scand J Gastroenterol Suppl 1993;196:19-25.

Befrits R, Granstrom M, Rylander M, Rubio C. Helicobacter pylori in 205 consecutive endoscopy patients. Scand J Infect Dis 1993;25(2):185-91.

Bernander S, Dalen J, Gastrin B, Hedenborg L, Lamke LO, Ohrn R. Absence of Helicobacter pylori in dental plaques in Helicobacter pylori positive dyspeptic patients. Eur J Clin Microbiol Infect Dis 1993 Apr;12(4):282-5.

Bernersen B, Johnsen R, Bostad L, Straume B, Sommer AI, Burhol PG. Is Helicobacter pylori the cause of dyspepsia? BMJ 1992 May 16;304(6837):1276-9.

Berstad K, Wilhelmsen I, Berstad A. Biometric evaluation of gastric urease activity in man. Scand J Gastroenterol 1992 Nov;27(11):977-83.

Blanco M, Pajares JM, Jimenez ML, Lopez-Brea M. Effect of acid inhibition on Campylobacter pylori. Scand J Gastroenterol Suppl 1988;142:107-9.

Blaser MJ. Helicobacter pylori and the pathogenesis of gastroduodenal inflammation. J Infect Dis 1990 Apr;161(4):626-33.

Blaser MJ. Hypotheses on the pathogenesis and natural history of Helicobacter pylori-induced inflammation. Gastroenterology 1992 Feb;102(2): 720-7.

Blaser MJ, Perez-Perez GI, Lindenbaum J, Schneidman D, Van Deventer G, Marin-Sorensen M, Weinstein WM. Association of infection due to Helicobacter pylori with specific upper gastrointestinal pathology. Rev Infect Dis 1991 Jul-Aug;13 Suppl 8: S704-8.

Blecker U, Renders F, Lanciers S, Vandenplas Y. Syncopes leading to the diagnosis of a Helicobacter pylori positive chronic active haemorrhagic gastritis. Eur J Pediatr 1991 Jun;150(8):560-1.

Bode G, Malfertheiner P, Ditschuneit H. Pathogenetic implications of ultrastructural findings in Campylobacter pylori related gastroduodenal disease. Scand J Gastroenterol Suppl 1988;142: 25-39.

Bode G, Malfertheiner P, Strohle A, Mauch F, Nilius M, Ditschuneit H. [Polymorphism in Helicobacter pylori--a key function in recurrence of infection?] Med Klin 1992 Apr 15;87(4):179-84. (Ger).

Bornschein W, Bauernfeind A, Heilmann KL. [A rapid urease test in Campylobacter pylori colonization of the gastric mucosa]. Gastroenterol J 1989;49(2): 54-8. (Ger).

Borody T, Andrews P, Mancuso N, Jankiewicz E, Brandl S. Helicobacter pylori reinfection 4 years post-eradication [letter]. Lancet 1992 May 23; 339(8804):1295.

Borody TJ, George LL, Brandl S, Andrews P, Jankiewicz E, Ostapowicz N. Smoking does not contribute to duodenal ulcer relapse after Helicobacter pylori eradication. Am J Gastroenterol 1992 Oct;87(10):1390-3. Comment in: Am J Gastroenterol 1992 Oct;87(10):1365-7.

Borsch G, Adamek R, Sandmann M, Wegener M, Schmidt G, Leverkus F, Reitemeyer E. Comparison of biopsy urease test and histologic examination for detection of Campylobacter pylori in duodenal, antral and fundic biopsies. Hepatogastroenterology 1987 Oct;34(5):236-41.

Borsch G, Mai U, Reitemeyer E, Leverkus F, Opferkuch W. [Campylobacter pylori: clinical correlations and prospective comparative studies of various diagnostic techniques]. Immun Infekt 1989 Jun;17(3):83-90. (Ger).

Borsch G, Wegener M. [Campylobacter pylori-associated chronic gastritis: a new entity in gastroduodenal diseases?]. Leber Magen Darm 1988 Feb;18(1):9-16. (Ger).

Britt DP, Barakat MH, Tungekar MF, Painchaud SM, Adlouni M, Kern K, Malhas L. Helicobacter pylori in dyspeptic patients in Kuwait. J Clin Pathol 1990 Dec;43(12):987-91.

Bujanover Y, Konikoff F, Baratz M. Nodular gastritis and Helicobacter pylori. J Pediatr Gastroenterol Nutr 1990 Jul;11(1):41-4. Comment in: J Pediatr Gastroenterol Nutr 1991 Feb;12(2):292-3.

Burstein M, Monge E, Leon-Barua R, Lozano R, Berendson R, Gilman RH, Legua H, Rodriguez C. Low peptic ulcer and high gastric cancer prevalence in a developing country with a high prevalence of infection by Helicobacter pylori. J Clin Gastroenterol 1991 Apr;13(2):154-6.

Buruk F, Berberoglu U, Pak I, Aksaz E, Celen O. Gastric cancer and Helicobacter pylori infection. Br J Surg 1993 Mar;80(3):378-9.

[Campylobacter pylori associated gastritis]. Internist (Berl) 1989 Dec;30(12):830-2. (Ger).

Campylobacter pylori: Defining a cause of gastritis and peptic ulcer disease. Proceedings from a symposium of the 13th International Congress of Gastroenterology. Rome, 7 September 1988. Scand J Gastroenterol Suppl 1989;160:1-68.

Campylobacter pylori becomes Helicobacter pylori [editorial]. Lancet 1989 Oct 28;2(8670):1019-20.

Carvalho AS, Queiroz DM, Mendes EN, Rocha GA, Penna FJ. Diagnosis and distribution of Helicobacter pylori in the gastric mucosa of symptomatic children. Braz J Med Biol Res 1991;24(2):163-6.

Caselli M, Pazzi P, LaCorte R, Aleotti A, Trevisani L, Stabellini G. Campylobacter-like organisms, nonsteroidal anti-inflammatory drugs and gastric lesions in patients with rheumatoid arthritis. Digestion 1989;44(2):101-4.

Chan WY, Hui PK, Chan JK, Cheung PS, Ng CS, Sham CH, Gwi E. Epithelial damage by Helicobacter pylori in gastric ulcers. Histopathology 1991 Jul;19(1):47-53.

Chang K, Fujiwara Y, Wyle F, Tarnawski A. Helicobacter pylori toxin inhibits growth and proliferation of cultured gastric cells - Kato III. J Physiol Pharmacol 1993 Mar;44(1):17-22.

Cheng EH, Bermanski P, Silversmith M, Valenstein P, Kawanishi H. Prevalence of Campylobacter pylori in esophagitis, gastritis, and duodenal disease. Arch Intern Med 1989 Jun;149(6):1373-5. Comment in: Arch Intern Med 1990 May;150(5):1132, 1134.

Chittajallu RS, Dorrian CA, Ardill JE, McColl KE. Effect of Helicobacter pylori on serum pepsinogen I and plasma gastrin in duodenal ulcer patients. Scand J Gastroenterol 1992;27(1):20-4.

Chodos JE, Dworkin BM, Smith F, Van Horn K, Weiss L, Rosenthal WS. Campylobacter pylori and gastroduodenal disease: a prospective endoscopic study and comparison of diagnostic tests. Am J Gastroenterol 1988 Nov;83(11):1226-30.

Clearfield HR. Helicobacter pylori: aggressor or innocent bystander? Med Clin North Am 1991 Jul;75(4):815-29.

Collen MJ, Strong RM. Helicobacter pylori in duodenal ulcer patients with idiopathic gastric acid hypersecretion. Dig Dis Sci 1993 Jan;38(1):132-6.

Collins JS. Role of Helicobacter pylori in gastritis and duodenitis in man. Agents Actions 1992;Spec No: C47-9.

Collins JS, Hamilton PW, Watt PC, Sloan JM, Love AH. Superficial gastritis and Campylobacter pylori in dyspeptic patients--a quantitative study using computer-linked image analysis. J Pathol 1989 Aug;158(4):303-10.

Covacci A, Censini S, Bugnoli M, Petracca R, Burroni D, Macchia G, Massone A, Papini E, Xiang Z, Figura N, et al. Molecular characterization of the 128-kDa immunodominant antigen of Helicobacter pylori associated with cytotoxicity and duodenal ulcer. Proc Natl Acad Sci U S A 1993 Jun 15; 90(12):5791-5.

Cover TL, Blaser MJ. Helicobacter pylori and gastroduodenal disease. Annu Rev Med 1992;43:135-45.

Cover TL, Blaser MJ. Purification and characterization of the vacuolating toxin from Helicobacter pylori. J Biol Chem 1992 May 25;267(15):10570-5.

Cover TL, Cao P, Murthy UK, Sipple MS, Blaser MJ. Serum neutralizing antibody response to the vacuolating cytotoxin of Helicobacter pylori. J Clin Invest 1992 Sep;90(3):913-8.

Cover TL, Reddy LY, Blaser MJ. Effects of ATPase inhibitors on the response of HeLa cells to Helicobacter pylori vacuolating toxin. Infect Immun 1993 Apr;61(4):1427-31.

Cover TL, Vaughn SG, Cao P, Blaser MJ. Potentiation of Helicobacter pylori vacuolating toxin activity by nicotine and other weak bases. J Infect Dis 1992 Nov;166(5):1073-8.

Czinn SJ, Speck WT. Campylobacter pylori: a new pathogen. Adv Pediatr Infect Dis 1990;5:221-37.

Debongnie JC, Beyaert C, Legros G. Touch cytology, a useful diagnostic method for diagnosis of upper gastrointestinal tract infections. Dig Dis Sci 1989 Jul;34(7):1025-7.

Debongnie JC, Delmee M, Mainguet P. Campylobacter pylori in gastric, duodenal and jejunal juices and mucosae of patients with duodenal ulcer. Acta Gastroenterol Belg 1989 Jan-Apr;52(1-2):3-8.

Debongnie JC, Pauwels S, Raat A, de Meeus Y, Haot J, Mainguet P. Quantification of Helicobacter pylori infection in gastritis and ulcer disease using a simple and rapid carbon-14-urea breath test. J Nucl Med 1991 Jun;32(6):1192-8.

Delvaux M, Escourrou J. Endoscopy in peptic ulcer disease: diagnosis, prognosis and management. Endoscopy 1992 Jan-Feb;24(1-2):41-4.

Desai HG. What does the absence of Helicobacter pylori from the antrum imply? [editorial]. J Clin Gastroenterol 1991 Oct;13(5):493-4.

Desai HG, Gill HH, Shankaran K, Mehta PR, Prabhu SR. Dental plaque: a permanent reservoir of Helicobacter pylori? Scand J Gastroenterol 1991 Nov;26(11):1205-8.

Dhillon AP, Sawyerr A. Granulomatous gastritis associated with Campylobacter pylori. APMIS 1989 Aug;97(8):723-7.

Dixon MF. Helicobacter pylori and peptic ulceration: histopathological aspects. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):125-30.

Dobronte Z, Lakatos F, Brittig F, Locsei Z, Varga L. [Does Campylobacter Helicobacter pylori infection have a clinical relevance? Methodologic, epidemiologic and clinical studies]. Gastroenterol J 1990;50(1):32-7. (Ger).

Dooley CP. Background and historical considerations of Helicobacter pylori. Gastroenterol Clin North Am 1993 Mar;22(1):1-4.

Dooley CP, Cohen H. The clinical significance of Campylobacter pylori. Ann Intern Med 1988 Jan;108(1):70-9.

Dooley CP, McKenna D, Humphreys H, Bourke S, Keane CT, Sweeney E, O'Morain C. Histological gastritis in duodenal ulcer: relationship to Campylobacter pylori and effect of ulcer therapy. Am J Gastroenterol 1988 Mar;83(3):278-82.

Dotevall G. Peptic ulcer, noxious stress, and Campylobacter pylori [letter]. Gastroenterology 1990 Jan;98(1):252-3.

Drumm B. Helicobacter pylori. Arch Dis Child 1990 Nov;65(11):1278-82. Comment in: Arch Dis Child 1991 Apr;66(4):559.

Dunn BE, Campbell GP, Perez-Perez GI, Blaser MJ. Purification and characterization of urease from Helicobacter pylori. J Biol Chem 1990 Jun 5; 265(16):9464-9.

Dunn BE, Perez-Perez GI, Blaser MJ. Two-dimensional gel electrophoresis and immunoblotting of Campylobacter pylori proteins. Infect Immun 1989;57(6):1825-33.

Dworkin BM, Chodos JE, Fernandez ME, Van Horn K, Cabello F, Wormser GP. Use of plasmid profiles in the investigation of a patient with Helicobacter pylori infection and peptic ulcer disease. Am J Gastroenterol 1991 Mar;86(3):354-6.

Dwyer B, Sun NX, Kaldor J, Tee W, Lambert J, Luppino M, Flannery G. Antibody response to Campylobacter pylori in an ethnic group lacking peptic ulceration. Scand J Infect Dis 1988;20(1): 63-8.

Edmonds PR, Carrozza MJ, Ruggiero FM, Calafati SA, Jann RC. Helicobacter (Campylobacter) pylori in gastric brushing cytology. Diagn Cytopathol 1992; 8(6):563-6.

Evans DG, Evans DJ Jr, Moulds JJ, Graham DY. N-acetylneuraminyllactose binding fibrillar hemagglutinin of Campylobacter pylori: a putative colonization factor antigen. Infect Immun 1988 Nov;56(11):2896-2906.

Evans DJ Jr, Evans DG, Engstrand L, Graham DY. Urease-associated heat shock protein of Helicobacter pylori. Infect Immun 1992 May; 60(5):2125-7.

Evans DJ Jr, Evans DG, Kirkpatrick SS, Graham DY. Characterization of the Helicobacter pylori urease and purification of its subunits. Microb Pathog 1991 Jan;10(1):15-26.

Farrell MK. Dr. Apley meets Helicobacter pylori [editorial]. J Pediatr Gastroenterol Nutr 1993 Feb;16(2):118-9. Comment on: J Pediatr Gastroenterol Nutr 1993 Feb;16(2):120-5.

Fauchere JL, Blaser MJ. Adherence of Helicobacter pylori cells and their surface components to HeLa cell membranes. Microb Pathog 1990 Dec;9(6): 427-39.

Faverly D, Fameree D, Lamy V, Fievez M, Gompel C. Identification of Campylobacter pylori in gastric biopsy smears. Acta Cytol 1990 Mar-Apr;34(2): 205-10. Comment in: Acta Cytol 1991 Mar-Apr; 35(2):252-3.

Feng YY, Wang Y. Campylobacter pylori in patients with gastritis, peptic ulcer, and carcinoma of the stomach in Lanzhou, China [letter]. Lancet 1988 May 7;1(8593):1055.

Fich A, Talley NJ, Shorter RG, Phillips SF. Does Helicobacter pylori colonize the gastric mucosa of Meckel's diverticulum? Mayo Clin Proc 1990 Feb;65(2):187-91. Comment in: Mayo Clin Proc 1990 Sep;65(9):1274-5.

Figura N, Guglielmetti P, Rossolini A, Barberi A, Cusi G, Musmanno RA, Russi M, Quaranta S. Cytotoxin production by Campylobacter pylori strains isolated from patients with peptic ulcers and from patients with chronic gastritis only. J Clin Microbiol 1989 Jan;27(1):225-6.

Fiocca R, Villani L, Turpini F, Turpini R, Solcia E. High incidence of campylobacter-like organisms in endoscopic biopsies from patients with gastritis, with or without peptic ulcer. Digestion 1987;38(4): 234-44.

Forman D. Helicobacter pylori infection: a novel risk factor in the etiology of gastric cancer [editorial]. J Natl Cancer Inst 1991 Dec 4;83(23):1702-3.

Fraser AG, Bickley J, Owen RJ, Pounder RE. DNA fingerprints of Helicobacter pylori before and after treatment with omeprazole. J Clin Pathol 1992 Dec;45(12):1062-5.

Gastroenterologists in Sydney--histology and helicobacter [editorial]. Lancet 1990 Sep 29; 336(8718):779-80. Comment in: Lancet 1990 Dec 1;336(8727):1380-1.

Gebbers JO, Altermatt HJ, Altorfer J. [Campylobacter pylori: cause of gastritis and ulcer disease?] Schweiz Med Wochenschr 1988 Apr 23;118(16): 577-83. (Ger).

Gill HH, Kalro RH, Desai HG. Campylobacter pylori. A new era in gastroduodenal disorders? J Assoc Physicians India 1990 Feb;38(2):147-50. Comment in: J Assoc Physicians India 1990 Oct;38(10):821.

Glupczynski Y, Delmee M, Bruck C, Labbe M, Avesani V, Burette A. Susceptibility of clinical isolates of Campylobacter pylori to 24 antimicrobial and anti-ulcer agents. Eur J Epidemiol 1988 Jun; 4(2):154-7.

Gnarpe H, Unge P, Blomqvist C, Makitalo S. Campylobacter pylori in Swedish patients referred for gastroscopy. APMIS 1988 Feb;96(2):128-32.

Goggin PM, Marrero JM, Ahmed H, Jackson PA, Corbishley CM, Northfield TC. Urea hydrolysis in helicobacter pylori infection. Eur J Gastroenterol Hepatol 1991;3(12):927-33.

Goodwin CS. The possibility of a vaccine against Helicobacter pylori. Eur J Gastroenterol Hepatol 1993;5(1):9-12.

Gottfried MR, Washington K, Harrell LJ. Helicobacter pylori-like microorganisms and chronic active gastritis in ferrets. Am J Gastroenterol 1990 Jul; 85(7):813-8.

Graham DY. Campylobacter pylori and peptic ulcer disease. Gastroenterology 1989 Feb;96(2 Pt 2 Suppl):615-25. Comment in: Gastroenterology 1990 Nov;99(5):1543-4.

Graham DY, Evans DG, Evans DJ Jr. Campylobacter pylori. The organism and its clinical relevance. J Clin Gastroenterol 1989;11 Suppl 1:S43-8.

Grosse G, Merker HJ, Niedobitek F, Weimann J, Volkheimer G, Bonk G. [Electron microscopy studies of the significance of colonization of the gastric mucosa with Campylobacter-like organisms]. Pathologe 1988 May;9(3):143-52. (Ger).

Guslandi M. Helicobacter pylori, mucus, and gastric ulcer [letter]. Lancet 1990 Mar 24;335(8691):728-9. Comment on: Lancet 1990 Jan 27;335(8683):193-5.

Hantzschel U, Mehlhorn J, Schreckenbach U, Voigt HU. [Detection of Campylobacter pylori in gastric mucosa--relation to gastroscopy findings and degree of gastritis]. Gastroenterol J 1990;50(4):163-8. (Ger).

Hazell SL, Eichberg JW, Lee DR, Alpert L, Evans DG, Evans DJ Jr, Graham DY. Selection of the chimpanzee over the baboon as a model for Helicobacter pylori infection. Gastroenterology 1992 Sep;103(3):848-54. Comment in: Gastroenterology 1993 Jun;104(6):1887.

Hazell SL, Evans DJ Jr, Graham DY. Helicobacter pylori catalase. J Gen Microbiol 1991 Jan;137 (Pt 1): 57-61.

Hazell SL, Graham DY. Unsaturated fatty acids and viability of Helicobacter (Campylobacter) pylori. J Clin Microbiol 1990 May;28(5):1060-1.

Heatley RV. Helicobacter pylori infection and duodenal ulcer [letter]. BMJ 1991 Jun 22;302(6791):1534-6. Comment on: BMJ 1991 Apr 20;302(6782):919-21; comment in: BMJ 1991 Jul 27;303(6796):248.

Heinzl S. [Campylobacter pylori and peptic ulcer]. Med Monatsschr Pharm 1988 May;11(5):165. (Ger).

Henze E, Malfertheiner P, Clausen M, Burkhardt H, Adam WE. Validation of a simplified carbon 14 urea breath test for routine use for detecting Heliobacter pylori noninvasively. J Nucl Med 1990 Dec;31(12):1940-4.

Holcombe C. Helicobacter pylori: the African enigma. Gut 1992 Apr;33(4):429-31.

Hornick RB. Campylobacter pylori: its role in gastritis and peptic ulcer disease. Curr Clin Top Infect Dis 1989;10:157-73.

Huang J, Smyth CJ, Kennedy NP, Arbuthnott JP, Napoleon Keeling PW. Haemagglutinating activity of Campylobacter pylori. FEMS Microbiol Lett 1988;56(1):109-12.

Hudson N, Balsitis M, Everitt S, Hawkey CJ. Enhanced gastric mucosal leukotriene B4 synthesis in patients taking non-steroidal anti-inflammatory drugs. Gut 1993 Jun;34(6):742-7.

Inouye H, Yamamoto I, Tanida N, Mikami J, Tamura K, Ohno T, Kano M, Shimoyama T. Campylobacter pylori in Japan: bacteriological feature and prevalence in healthy subjects and patients with gastroduodenal disorders. Gastroenterol Jpn 1989;24(5):495-504.

Jones ST, Clague RB, Eldridge J, Jones DM. Serological evidence of infection with Helicobacter pylori may predict gastrointestinal intolerance to non steroidal anti inflammatory drug (NSAID) treatment in rheumatoid arthritis. Br J Rheumatol 1991 Feb;30(1):16-20.

Joshi VR, Sainani GS. Campylobacter pylori: what is it doing there? [editorial]. J Assoc Physicians India 1988 Feb;36(2):133-4.

Kachintorn U, Luengrojanakul P, Atisook K, Theerabutra C, Tanwandee T, Boonyapisit S, Chinapak O. Helicobacter pylori and peptic ulcer diseases: prevalence and association with antral gastritis in 210 patients. J Med Assoc Thai 1992 Jul;75(7):386-92.

Kalogeropoulos NK, Whitehead R. Campylobacter-like organisms and Candida in peptic ulcers and similar lesions of the upper gastrointestinal tract: a study of 247 cases. J Clin Pathol 1988 Oct;41(10):1093-8.

Kang JK, Kim E, Kim KH, Oh SH. Association of Helicobacter pylori with gastritis and peptic ulcer diseases. Yonsei Med J 1991 Jun;32(2):157-68.

Kobayashi K. [Recurrence of peptic ulcers and risk factors]. Nippon Naika Gakkai Zasshi 1991 Jan 10; 80(1):31-6. (Jpn).

Kobler E, Muller B, Wust W. [Ulcer symptoms without demonstration of ulcer: causative therapy with demonstration of Helicobacter pylori]. Schweiz Rundsch Med Prax 1990 Mar 27;79(13):398-9. (Ger).

Korman MG. Helicobacter pylori: fact or fiction? Scand J Gastroenterol Suppl 1990;175:159-65.

Kung JS, Ho B, Chan SH. Biotyping of Campylobacter pylori. J Med Microbiol 1989 Jul;29(3):203-6.

Kunz U, Hantzschel U, Kratzsch KH, Mehlhorn J, Voigt HU. [The frequency of demonstration of Campylobacter pylori]. Z Gesamte Inn Med 1990 Jul 1;45(13):389-91. (Ger).

Lambert JR, McLean AJ. Pathogenicity of Campylobacter pylori in the upper gastrointestinal tract--implications for modern therapy. Med J Aust 1989 Aug 7;151(3):120-2.

Lambert JR, Yeomans ND. Campylobacter pylori--gastroduodenal pathogen or opportunistic bystander? [editorial]. Aust N Z J Med 1988 Jun;18(4):555-6.

Lee A. H pylori-initiated ulcerogenesis: look to the host. Lancet 1993 Jan 30;341(8840):280-1. Comment in: Lancet 1993 Mar 13;341(8846):702-3; Lancet 1993 Apr 3;341(8849):900-1.

Lee A. Helicobacter pylori: causal agent in peptic ulcer. Microbiological aspects. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):115-20.

Lee A. Spiral organisms: what are they? A microbiologic introduction to helicobacter pylori. Scand J Gastroenterol Suppl 1991;187:9-22.

Lee A, Fox J, Hazell S. Pathogenicity of Helicobacter pylori: a perspective. Infect Immun 1993 May; 61(5):1601-10.

Leunk RD. Production of a cytotoxin by Helicobacter pylori. Rev Infect Dis 1991 Jul-Aug;13 Suppl 8: S686-9.

Levi S, Davies KA, Playford RA, Ghosh P, Price MJ, Calam J, Walport MJ. Antral Campylobacter pylori colonization, ABO blood group, and secretor status [letter]. Gastroenterol Clin Biol 1989 Dec;13(12): 1095.

Levi S, Dollery CT, Bloom SR, Calam J, Cox TM, Hodgson HJ, Losowsky MS, Pepys MB, Wright NA, Wrong OM. Campylobacter pylori, duodenal ulcer disease, and gastrin [clinical conference]. BMJ 1989 Oct 28;299(6707):1093-4.

Loffeld RJ, Stobberingh E, Flendrig JA, Arends JW. Helicobacter pylori in gastric biopsy specimens.

Comparison of culture, modified Giemsa stain, and immunohistochemistry. A retrospective study. J Pathol 1991 Sep;165(1):69-73.

Lohr JM, Nelson JA, Oldstone MB. Is herpes simplex virus associated with peptic ulcer disease? J Virol 1990 May;64(5):2168-74.

Loo VG, Sherman P, Matlow AG. Helicobacter pylori infection in a pediatric population: in vitro susceptibilities to omeprazole and eight antimicrobial agents. Antimicrob Agents Chemother 1992 May;36(5):1133-5.

Lopez-Brea M, Jimenez ML. Role of Campylobacter pylori in the etiology of peptic ulcer. Methods Find Exp Clin Pharmacol 1989;11 Suppl 1:13-7.

Ludtke FE, Maierhof S, Kohler H, Bauer FE, Tegeler R, Schauer A, Lepsien G. [Helicobacter pylori colonization in surgical patients]. Chirurg 1991 Oct;62(10):732-8. (Ger).

Lule GN. Helicobacter pylori: an infectious agent in peptic ulcer disease? [editorial]. East Afr Med J 1991 May;68(5):321-3.

Maaroos HI, Kekki M, Sipponen P, Salupere V, Villako K. Grade of Helicobacter pylori colonisation, chronic gastritis and relative risks of contracting high gastric ulcers: a seven-year follow-up. Scand J Gastroenterol Suppl 1991;186:65-72.

Madan E, Kemp J, Westblom TU, Subik M, Sexton S, Cook J. Evaluation of staining methods for identifying Campylobacter pylori. Am J Clin Pathol 1988;90(4):450-3.

Marshall BJ, Armstrong JA, McGechie DB, Glancy RJ. Attempt to fulfil Koch's postulates for pyloric Campylobacter. Med J Aust 1985 Apr 15; 142(8): 436-9.

Marshall BJ, Barrett LJ, Prakash C, McCallum RW, Guerrant RL. Urea protects Helicobacter (Campylobacter) pylori from the bactericidal effect of acid. Gastroenterology 1990 Sep;99(3):697-702.

Marshall BJ, McGechie DB, Rogers PA, Glancy RJ. Pyloric Campylobacter infection and gastroduodenal disease. Med J Aust 1985 Apr 15;142(8):439-44.

Marshall BJ, Warren JR. Unidentified curved bacilli in the stomach of patients with gastritis and peptic ulceration. Lancet 1984 Jun 16;1(8390):1311-5.

Martinez E, Marcos A. Helicobacter pylori and peptic ulcer disease [letter]. N Engl J Med 1991 Sep 5; 325(10):737-8. Comment on: N Engl J Med 1991 Apr 11;324(15):1043-8.

Marwick C. Helicobacter: new name, new hypothesis involving type of gastric cancer [news]. JAMA 1990 Dec 5;264(21):2724, 2727.

McNulty CA. Bacteriological and pharmacological basis for the treatment of Campylobacter pylori infection. Gastroenterol Clin Biol 1989;13(1 Pt 1):96B-100B.

McNulty CA. Pathogenicity of Campylobacter pylori--a causative factor in gastritis? Scand J Gastroenterol Suppl 1989;160:3-6.

Mendes EN, Queiroz DM, Rocha GA, Barbosa AJ. Campylobacter colonisation, duodenal ulceration, and changes in gastric mucosa [letter]. J Clin Pathol 1988 Sep;41(9):1027.

Millar MR, Pike J. Bactericidal activity of antimicrobial agents against slowly growing Helicobacter pylori. Antimicrob Agents Chemother 1992 Jan;36(1): 185-7.

Morris AJ, Ali MR, Nicholson GI, Perez-Perez GI, Blaser MJ. Long-term follow-up of voluntary ingestion of Helicobacter pylori. Ann Intern Med 1991 Apr 15;114(8):662-3.

Morrison JM, Veillon D, Gonzalez E. From the Departments of Internal Medicine and Pathology. LSU Medical Center, Shreveport. Benign gastric ulcer and H pylori infection [clinical conference]. J La State Med Soc 1991 Dec;143(12):13-5.

Nakazawa T, Ishibashi M, Konishi H, Takemoto T, Shigeeda M, Kochiyama T. Hemagglutination activity of Campylobacter pylori. Infect Immun 1989;57(3):989-91.

Nakshabendi IM, Peebles SE, Lee FD, Russell RI. Spiral shaped microorganisms in the human duodenal mucosa. Postgrad Med J 1991 Sep; 67(791):846-7.

Namavar F, MacLaren DM. Helicobacter pylori and pathogenesis of ulceration [letter]. Lancet 1993 Mar 13;341(8846):702-3. Comment on: Lancet 1993 Jan 30;341(8840):280-1.

Nanivadekar SA. Does Helicobacter pylori play a role in the pathogenesis of peptic ulcer? Part II. Yes, Helicobacter pylori is a pathogenetic factor in peptic ulcer. J Assoc Physicians India 1990 Sep;38 Suppl 1:748-51.

Newell DG. Virulence factors of Helicobacter pylori. Scand J Gastroenterol Suppl 1991;187:31-8.

Nguyen AM, Engstrand L, Genta RM, Graham DY, el-Zaatari FA. Detection of Helicobacter pylori in dental plaque by reverse transcription-polymerase chain reaction. J Clin Microbiol 1993 Apr;31(4): 783-7.

Nomura A, Stemmermann GN. Helicobacter pylori and gastric cancer. J Gastroenterol Hepatol 1993 May-Jun;8(3):294-303.

Nwokolo CU, Bickley J, Attard AR, Owen RJ, Costas M, Fraser IA. Evidence of clonal variants of Helicobacter pylori in three generations of a duodenal ulcer disease family. Gut 1992 Oct; 33(10):1323-7.

Offerhaus GJ, Molyvas EN, Hoedemaeker PJ. Helicobacter pylori infection of gastric mucin cell metaplasia: The duodenum revisited. J Pathol 1990 Nov;162(3):239-43.

Ohkusa T, Okayasu I, Yamada M, Hosoi H, Yamanaka A, Fujiki K, Tamura Y, Takashimizu I, Sasabe M, Yamamoto N, et al. A high frequency of detection of Helicobacter pylori in whitish exudate of gastric ulcer. J Clin Gastroenterol 1991 Dec;13(6):649-55.

Okabe N, Katayama R, Yoshida K, Nishida Y, Masaoka N, Matsumoto F, Sakurai I, Takahashi T, Taura Y, Kokubu K, et al. [Current alteration of Helicobacter pylori in gastro-duodenal diseases]. Kansenshogaku Zasshi 1992 Oct;66(10):1411-5. (Jpn).

O'Riordan TG, Tobin A, O'Morain C. Helicobacter pylori infection in elderly dyspeptic patients. Age Ageing 1991 May;20(3):189-92.

Ormand JA, Talley NJ. Campylobacter pylori, mucus, and peptic ulceration. A dynamic interaction. J Clin Gastroenterol 1989 Oct;11(5):492-5.

Owen RJ, Bickley J, Lastovica A, Dunn JP, Borman P, Hunton C. Ribosomal RNA gene patterns of Helicobacter pylori from surgical patients with healed and recurrent peptic ulcers. Epidemiol Infect 1992 Feb;108(1):39-50.

Owen RJ, Figura N, Moreno M. Biotypes and DNA fingerprints of cytotoxigenic Helicobacter pylori from patients with gastritis and peptic ulceration in Italy. Eur J Epidemiol 1992 Jan;8(1):15-21.

Pallen MJ, Clayton CL. Vaccination against Helicobacter pylori urease [letter]. Lancet 1990 Jul 21;336(8708):186-7. Comment on: Lancet 1990 May 19;335(8699):1232.

Peterson WL. Helicobacter pylori gastritis: a 'normal' phenomenon. Gastroenterology 1990 Jul;99(1): 278-9. Comment in: Gastroenterology 1991 Jan; 100(1):290.

Peterson WL. Peptic ulcer--an infectious disease? [clinical conference]. West J Med 1990 Feb; 152(2):167-71.

Queiroz DM, Barbosa AJ, Mendes EN, Rocha GA, Cisalpino EO, Lima GF Jr, Oliveira CA. Distribution of Campylobacter pylori and gastritis in the stomach of patients with and without duodenal ulcer. Am J Gastroenterol 1988 Dec;83(12): 1368-70.

Queiroz DM, Quintao JG, Rocha GA, Barbosa AJ, Mendes EN. Helicobacter pylori density on antral mucosa of patients with and without duodenal ulceration [letter]. Gastroenterol Clin Biol 1991; 15(6-7):558.

Quintero GA, Williams JD, Wingate DL, Newell DG. A microbiological etiology for gastritis and peptic ulceration. World J Surg 1988 Oct;12(5):718-22.

Raedsch R. [Virulence factors of Helicobacter pylori and pathomechanisms of mucosal damage]. Z Gastroenterol Verh 1991 Mar;26:281-2. (Ger).

Raisanen S, Sodervik H. Colonization of gastric lesions by urease-positive bacteria [letter]. Am J Clin Pathol 1988 Dec;90(6):749-50. Comment in: Am J Clin Pathol 1989 Sep;92(3):397.

Rautelin H, Blomberg B, Fredlund H, Jarnerot G, Danielsson D. Incidence of Helicobacter pylori strains activating neutrophils in patients with peptic ulcer disease. Gut 1993 May;34(5):599-603.

Rautelin H, Renkonen OV, Kosunen TV. In vitro susceptibility of Helicobacter pylori to nitecapone [letter]. Eur J Clin Microbiol Infect Dis 1992 Mar;11(3):274-5.

Rauws EA. Role of Helicobacter pylori in duodenal ulcer. Drugs 1992 Dec;44(6):921-7.

Ren J, Pan BR, Li MF, Lu P, Yan PS, Miao JY, Dong Y, Luo WH. Preliminary study on the microbiology of Campylobacter pyloridis and gastric histopathology. Keio J Med 1990 Jun;39(2):112-6.

Richens J, West B, Turner H. Campylobacter pylori in patients undergoing gastroscopy at Goroka Base Hospital. P N G Med J 1989 Mar;32(1):23-6.

Rosberg K, Berglindh T, Gustavsson S, Hubinette R, Rolfsen W. Adhesion of Helicobacter pylori to human gastric mucosal biopsy specimens cultivated in vitro. Scand J Gastroenterol 1991 Nov;26(11): 1179-87.

Rosenthal LE, Smoot D, Mobley HL, Guisbert W. Campylobacter pylori gastritis not related to periodontal disease [letter]. Am J Gastroenterol 1988 Feb;83(2):202.

Rubin CE. Histological classification of chronic gastritis: an iconoclastic view [editorial]. Gastroenterology 1992 Jan;102(1):360-1. Comment on: Gastroenterology 1992 Jan;102(1):355-9; comment in: Gastroenterology 1992 Sep;103(3): 1117-8.

Rusu V, Dop R, Ionescu V, Serbanescu V, Kovacs M. The incidence of Campylobacter pylori in chronic gastropathy. Arch Roum Pathol Exp Microbiol 1988 Jul-Dec;47(3-4):247-60.

Saita H, Murakami M, Yoo JK, Teramura S, Dekigai H, Takahashi Y, Kita T. Link between Helicobacter pylori-associated gastritis and duodenal ulcer. Dig Dis Sci 1993 Jan;38(1):117-22.

Schaub N, Stalder H, Stalder GA, Marbet UA, Vogtlin J, Affolter H, Wegmann W, Vischer WA, Zingel O, Tanner K, et al. [Campylobacter pylori, gastritis and ulcer disease. Microbiological, histological and serological studies]. Schweiz Med Wochenschr 1988 Mar 5;118(9):293-301. (Ger).

Schmid EN, von Recklinghausen G, Ansorg R. Bacteriophages in Helicobacter (Campylobacter) pylori. J Med Microbiol 1990 Jun;32(2):101-4.

Sidebotham RL, Batten JJ, Karim QN, Spencer J, Baron JH. Breakdown of gastric mucus in presence of Helicobacter pylori. J Clin Pathol 1991 Jan; 44(1):52-7.

Sinclair P. Virulence factors of Helicobacter pylori. Can J Gastroenterol 1991 Nov-Dec;5(6):214-8.

Sipponen P. Helicobacter pylori, chronic gastritis and peptic ulcer. Mater Med Pol 1992 Jul-Sep; 24(3): 166-8.

Sipponen P, Varis K, Cederberg A, Salmi HA, Seppala K, Ihamaki T, Kosunen TU. Campylobacter pylori is associated with chronic gastritis but not with active peptic ulcer disease. APMIS 1988 Jan;96(1): 84-8.

Sjostedt S. The upper gastrointestinal microflora in relation to gastric diseases and gastric surgery. Acta Chir Scand Suppl 1989;551:1-57.

Sloane R, Cohen H. Common-sense management of Helicobacter pylori-associated gastroduodenal disease. Personal views. Gastroenterol Clin North Am 1993 Mar;22(1):199-206.

Slomiany BL, Murty VL, Piotrowski J, Grabska M, Slomiany A. Glycosulfatase activity of H. pylori toward human gastric mucin: effect of sucralfate. Am J Gastroenterol 1992 Sep;87(9):1132-7.

Slomiany BL, Nishikawa H, Piotrowski J, Okazaki K, Slomiany A. Lipolytic activity of Campylobacter pylori: effect of sofalcone. Digestion 1989;43(1-2): 33-40.

Slomiany BL, Piotrowski J, Rajiah G, Slomiany A. Inhibition of gastric mucosal laminin receptor by Helicobacter pylori lipopolysaccharide: effect of nitecapone. Gen Pharmacol 1991;22(6):1063-9.

Smoot DT, Mobley HL, Chippendale GR, Lewison JF, Resau JH. Helicobacter pylori urease activity is toxic to human gastric epithelial cells. Infect Immun 1990 Jun;58(6):1992-4.

Spiro H. Camp Ylobacter--Colorado 1987 [editorial]. J Clin Gastroenterol 1988 Feb;10(1):7-9.

Stadler P, Blum AL. [Is Campylobacter pylori the pathogen of ulcer disease? Contra]. Z Gastroenterol 1989 Feb;27(2):127-30. (Ger).

Stalder GA. [Campylobacter pylori, chronic gastritis and ulcer disease (editorial)]. Schweiz Rundsch Med Prax 1988 Dec 13;77(50):1369-70. (Ger).

Staub P, Jost R, Eberle C, Stamm B, Wust J, Hacki WH. [Campylobacter pylori colonization of the antrum: effect on gastrin, somatostatin, pancreatic polypeptide and neurotensin]. Schweiz Med Wochenschr 1989 May 27;119(21):765-7. (Ger).

Stolte M. [Campylobacter pylori compels re-thinking]. Leber Magen Darm 1989 Mar;19(2):57-8. (Ger).

Sugiyama K, Takahashi H, Fujita R, Sugata F, Nakamura R. [Relation between Helicobacter pylori and intractable gastric ulcer--PAS positive intramucosal mucus as an index]. Nippon Shokakibyo Gakkai Zasshi 1992 Mar;89(3):571-9. (Jpn).

Taha AS, Boothman P, Holland P, McKinlay A, Upadhyay R, Kelly RW, Lee F, Russell RI. Gastric mucosal prostaglandin synthesis in the presence of Campylobacter pylori in patients with gastric ulcers and non-ulcer dyspepsia. Am J Gastroenterol 1990 Jan;85(1):47-50.

Taylor DN, Perlman DM, Echeverria PD, Lexomboon U, Blaser MJ. Campylobacter immunity and quantitative excretion rates in Thai children. J Infect Dis 1993 Sep;168(3):754-8.

Tummuru MK, Cover TL, Blaser MJ. Cloning and expression of a high-molecular-mass major antigen of Helicobacter pylori: evidence of linkage to cytotoxin production. Infect Immun 1993 May; 61(5):1799-809.

Tytgat GN. The clinical significance of Helicobacter pylori infection in chronic dyspepsia and peptic ulcer disease [editorial]. Ann Med 1991 Oct; 23(4):355-6.

Tytgat GN. Does the stomach adapt to Helicobacter pylori? Scand J Gastroenterol Suppl 1992;193: 28-32.

Tytgat GN. Helicobacter pylori infection and duodenal ulcer disease. J Intern Med 1992 Mar;231(3): 199-203.

Tytgat GN. Helicobacter pylori: causal agent in peptic ulcer disease? Conclusion. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):139-40.

Tytgat GN, Rauws EA. The role of Campylobacter pylori in gastroduodenal diseases. A believer's point of view. Gastroenterol Clin Biol 1989;13(1 Pt 1): 118B-121B.

Veereman-Wauters G, Ferrell L, Heyman MB. Trends in Campylobacter pylori in pediatric and adult antral biopsies. A 5-year retrospective analysis. West J Med 1989 Oct;151(4):406-9.

Veldhuyzen van Zanten SJ. Helicobacter pylori, causation, change in natural history, and why Helicobacter-positive duodenal ulcers should not be routinely treated. Scand J Gastroenterol Suppl 1991;187:98-104.

Veldhuyzen van Zanten SJ, Goldie J, Riddell RH, Hunt RH. Campylobacter pylori infection [letter]. Ann Intern Med 1988 Dec 1;109(11):925-6.

Vogt K, Warrelmann M, Hahn H. The minimum inhibitory concentrations of various bismuth salts against Campylobacter pylori. Int J Med Microbiol 1989 Sep;271(3):304-10.

Walker SJ, Birch PJ, Stewart M, Stoddard CJ, Hart CA, Day DW. Patterns of colonisation of Campylobacter pylori in the oesophagus, stomach and duodenum. Gut 1989 Oct;30(10):1334-8.

Wang KK. The role of Helicobacter pylori in gastroduodenal disease. Compr Ther 1991 Sep;17(9):35-8.

Workshop on Gastroduodenal Pathology and Helicobacter pylori, 28-30 November 1991. Eur J Cancer Prev 1992 Aug;1(5):389-90.

Wotherspoon AC, Doglioni C, Diss TC, Pan L, Moschini A, de Boni M, Isaacson PG. Regression of primary low-grade B-cell gastric lymphoma of mucosa-associated lymphoid tissue type after eradication of Helicobacter pylori. Lancet 1993 Sep 4;342(8871):575-7. Comment in: Lancet 1993 Sep 4;342(8871):568.

Wright JP, Lastovica AJ, Emms M, Penfild SS. Campylobacter pylori and the gastric mucosa. S Afr Med J 1988 Jul 2;74 Suppl:37-8.

Wyatt JI, Rathbone BJ, Dixon MF, Heatley RV, Axon AT. Campylobacter pylori and development of duodenal ulcer [letter]. Lancet 1988 Jan 16;1(8577): 118-9.

Wyatt JI, Shallcross TM, Crabtree JE, Heatley RV. Helicobacter pylori, gastritis, and peptic ulceration in the elderly. J Clin Pathol 1992 Dec;45(12): 1070-4.

Wyle FA, Tarnawski A, Schulman D, Dabros W. Evidence for gastric mucosal cell invasion by C. pylori: an ultrastructural study. J Clin Gastroenterol 1990;12 Suppl 1:S92-8.

Xiang Z, Bugnoli M, Rappuoli R, Covacci A, Ponzetto A, Crabtree JE. Helicobacter pylori: host responses in peptic ulceration [letter]. Lancet 1993 Apr 3; 341(8849):900-1. Comment on: Lancet 1993 Jan 30;341(8840):280-1.

Xiao SD, Pan ZJ, Zhang ZH, Jiang SJ. Enzyme-linked immunosorbent assay for detection of immunoglobulin G antibody against Helicobacter pylori. Chin Med J (Engl) 1991 Nov;104(11): 904-8.

Yamada M, Kajiura K, Fujiki K, Takenaga T, Tamura H, Yamaki N, Takashimizu K, Sasabe M, Nakamura R, Ogusa T. [Detection frequency of Campylobacter pylori at the white exudate of gastric ulcers]. Nippon Shokakibyo Gakkai Zasshi 1989 Dec;86(12):2839. (Jpn).

Yamashita T, Fukuda Y, Tonokatsu Y, Abo H. [Helicobacter pylori and gastric mucosa]. Nippon Naika Gakkai Zasshi 1993 Feb 10;82(2):286-92. (Jpn).

Yap I. Helicobacter pylori and gastroduodenal disease. Singapore Med J 1992 Dec;33(6):557-8.

Yardley JH, Paull G. Campylobacter pylori: a newly recognized infectious agent in the gastrointestinal tract. Am J Surg Pathol 1988;12 Suppl 1:89-99.

Yeomans ND. Bacteria in ulcer pathogenesis. Baillieres Clin Gastroenterol 1988 Jul;2(3):573-91.

Yokota K, Oguma K, Yoshida H, Takayama Y, Sugiyama T, Yabana T, Yachi A, Kurebayashi Y, Isogai H, Isogai E. [Comparison of three methods for detecting Campylobacter pylori and measurement of human antibody titers against the whole organisms]. Kansenshogaku Zasshi 1990 May;64(5):597-603. (Jpn).

Yoshimura HH, Evans DG, Graham DY. DNA-DNA hybridization demonstrates apparent genetic differences between Helicobacter pylori from patients with duodenal ulcer and asymptomatic gastritis. Dig Dis Sci 1993 Jun;38(6):1128-31.

Zhu WN, Wang JY. Some recent advances in gastroenterology. Chin Med J (Engl) 1992 Apr;105(4):267-70.

## NEOPLASMS

Armstrong CP, Burton PA, Thompson MH. Helicobacter pylori and gastric carcinoma [letter]. Histopathology 1991 Oct;19(4):389-90. Comment on: Histopathology 1990 Dec;17(6):537-41.

Carneiro F, Taveira-Gomes A, Cabral-Correia A, Vasconcelos-Teixeira A, Barreira R, Cardoso-Oliveira M, Sobrinho-Simoes M. Characteristics of the gastric mucosa of direct relatives of patients with sporadic gastric carcinoma. Eur J Cancer Prev 1993 May;2(3):239-46.

Correa P. Is gastric carcinoma an infectious disease? [editorial]. N Engl J Med 1991 Oct 17;325(16): 1170-1. Comment on: N Engl J Med 1991 Oct 17; 325(16):1127-31; N Engl J Med 1991 Oct 17; 325(16):1132-6.

Correa P, Fox J, Fontham E, Ruiz B, Lin YP, Zavala D, Taylor N, Mackinley D, de Lima E, Portilla H, et al. Helicobacter pylori and gastric carcinoma. Serum antibody prevalence in populations with contrasting cancer risks. Cancer 1990 Dec 15; 66(12):2569-74.

De Koster E, Buset M, Nyst JF, Deltenre M. Gastric screening prospects. Eur J Cancer Prev 1993 May; 2(3):263-8.

Doglioni C, Wotherspoon AC, Moschini A, de Boni M, Isaacson PG. High incidence of primary gastric lymphoma in northeastern Italy. Lancet 1992 Apr 4; 339(8797):834-5. Comment in: Lancet 1992 Jul 18; 340(8812):186-7.

Feng YY, Wang Y. Campylobacter pylori in patients with gastritis, peptic ulcer, and carcinoma of the stomach in Lanzhou, China [letter]. Lancet 1988 May 7;1(8593):1055.

Fischbach W, Bohm S. [Helicobacter pylori associated gastritis and primary stomach lymphoma]. Z Gastroenterol 1993 May;31(5):327-8. (Ger).

Goodwin CS. Gastric cancer and Helicobacter pylori: the whispering killer? Lancet 1993 Aug 28; 342(8870):507-8.

Goodwin CS, Worsley B. Peptic ulcer disease and Helicobacter pylori infection. Curr Opin Gastroenterol 1992;8(1):122-7.

Guarner J, Mohar A, Parsonnet J, Halperin D. The association of Helicobacter pylori with gastric cancer and preneoplastic gastric lesions in Chiapas, Mexico. Cancer 1993 Jan 15;71(2):297-301.

Hakkinen I, Nevalainen T, Paasivuo R, Partanen P, Seppala K, Sipponen P. Gastric cancer associated structure in mucus glycoproteins shown as a clinically useful marker. Gut 1991 Dec;32(12): 1465-9. Comment in: Gut 1992 Dec;33(12):1681.

Isaacson PG. Extranodal lymphomas: the MALT concept. Verh Dtsch Ges Pathol 1992;76:14-23.

Isaacson PG. Pathogenesis and early lesions in extranodal lymphoma. Toxicol Lett 1993 Apr; 67(1-3):237-47.

Isaacson PG, Spencer J. Is gastric lymphoma an infectious disease? [editorial]. Hum Pathol 1993 Jun;24(6):569-70.

Jankowski J. Helicobacter pylori infection and gastric cancer [letter]. BMJ 1991 Jun 22;302(6791):1534. Comment on: BMJ 1991 Jun 1;302(6788):1302-5.

Jaskiewicz K, Louwrens HD. Chronic atrophic gastritis in a population at risk for gastric carcinoma. Anticancer Res 1991 Mar-Apr;11(2):835-9.

Kuipers EJ, Gracia-Casanova M, Pena AS, Pals G, Van Kamp G, Kok A, Kurz-Pohlmann E, Pels NF, Meuwissen SG. Helicobacter pylori serology in patients with gastric carcinoma. Scand J Gastroenterol 1993 May;28(5):433-7.

Lechago J, Correa P. Prolonged achlorhydria and gastric neoplasia: is there a causal relationship? [editorial]. Gastroenterology 1993 May;104(5): 1554-7. Comment on: Gastroenterology 1993 May; 104(5):1356-70.

Loffeld RJ, Willems I, Flendrig JA, Arends JW. Helicobacter pylori and gastric carcinoma. Histopathology 1990 Dec;17(6):537-41. Comment in: Histopathology 1991 Oct;19(4):389-90.

Nomura A, Stemmermann GN. Helicobacter pylori and gastric cancer. J Gastroenterol Hepatol 1993 May-Jun;8(3):294-303.

Nomura A, Stemmermann GN, Chyou PH, Kato I, Perez-Perez GI, Blaser MJ. Helicobacter pylori infection and gastric carcinoma among Japanese Americans in Hawaii. N Engl J Med 1991 Oct 17; 325(16):1132-6. Comment in: N Engl J Med 1991 Oct 17;325(16):1170-1.

Offerhaus GJ, Tersmette AC, Tersmette KW, Tytgat GN, Hoedemaeker PJ, Vandenbroucke JP. Gastric, pancreatic, and colorectal carcinogenesis following remote peptic ulcer surgery. Review of the literature with the emphasis on risk assessment and underlying mechanism. Mod Pathol 1988 Sep;1(5): 352-6.

Parsonnet J. Helicobacter pylori and gastric cancer. Gastroenterol Clin North Am 1993 Mar;22(1): 89-104.

Parsonnet J, Friedman GD, Vandersteen DP, Chang Y, Vogelman JH, Orentreich N, Sibley RK. Helicobacter pylori infection and the risk of gastric carcinoma. N Engl J Med 1991 Oct 17;325(16): 1127-31. Comment in: N Engl J Med 1991 Oct 17; 325(16):1170-1.

Parsonnet J, Vandersteen D, Goates J, Sibley RK, Pritikin J, Chang Y. Helicobacter pylori infection in intestinal- and diffuse-type gastric adenocarcinomas. Published erratum appears in J Natl Cancer Inst 1991 Jun 19;83(12):881. J Natl Cancer Inst 1991 May 1;83(9):640-3.

Scott N, Lansdown M, Diament R, Rathbone B, Murday V, Wyatt JI, McMahon M, Dixon MF, Quirke P. Helicobacter gastritis and intestinal metaplasia in a gastric cancer family [letter]. Lancet 1990 Mar 24;335(8691):728.

Sierra R, Munoz N, Pena AS, Biemond I, van Duijn W, Lamers CB, Teuchmann S, Hernandez S, Correa P. Antibodies to Helicobacter pylori and pepsinogen levels in children from Costa Rica: comparison of two areas with different risks for stomach cancer. Cancer Epidemiol Biomarkers Prev 1992 Sep-Oct;1(6):449-54.

Sierra R, Ohshima H, Munoz N, Teuchmann S, Pena AS, Malaveille C, Pignatelli B, Chinnock A, el Ghissassi F, Chen C, et al. Exposure to N-nitrosamines and other risk factors for gastric cancer in Costa Rican children. IARC Sci Publ 1991;(105):162-7.

Sipponen P. Helicobacter pylori infection--a common worldwide environmental risk factor for gastric cancer? [editorial]. Endoscopy 1992 Jun;24(5): 424-7.

Sipponen P. Helicobacter pylori and gastric premalignant conditions. Acta Gastroenterol Belg 1991 Sep-Dec;54(5-6):340-4.

Sipponen P, Hyvarinen H. Role of Helicobacter pylori in the pathogenesis of gastritis, peptic ulcer and gastric cancer. Scand J Gastroenterol Suppl 1993; 196:3-6.

Sipponen P, Kekki M, Siurala M. Increased risk of gastric cancer in males affects the intestinal type of cancer and is independent of age, location of the tumour and atrophic gastritis. Br J Cancer 1988 Mar;57(3):332-6.

Sipponen P, Kosunen TU, Valle J, Riihela M, Seppala K. Helicobacter pylori infection and chronic gastritis in gastric cancer. J Clin Pathol 1992 Apr;45(4):319-23.

Sobala GM, Pignatelli B, Schorah CJ, Bartsch H, Sanderson M, Dixon MF, Shires S, King RF, Axon AT. Levels of nitrite, nitrate, N-nitroso compounds, ascorbic acid and total bile acids in gastric juice of patients with and without precancerous conditions of the stomach. Carcinogenesis 1991 Feb;12(2):193-8.

Stolte M. Helicobacter pylori gastritis and gastric MALT-lymphoma [letter]. Lancet 1992 Mar 21; 339(8795):745-6. Comment on: Lancet 1991 Nov 9;338(8776):1175-6.

Stolte M, Eidt S. Healing gastric MALT lymphomas by eradicating H pylori? Lancet 1993 Sep 4;342(8871): 568. Comment on: Lancet 1993 Sep 4;342(8871): 571-4; Lancet 1993 Sep 4; 342(8871): 575-7.

Talley NJ, Zinsmeister AR, Weaver A, DiMagno EP, Carpenter HA, Perez-Perez GI, Blaser MJ. Gastric adenocarcinoma and Helicobacter pylori infection. J Natl Cancer Inst 1991 Dec 4;83(23):1734-9.

Tersmette AC, Goodman SN, Offerhaus GJ, Tersmette KW, Giardiello FM, Vandenbroucke JP, Tytgat GN. Multivariate analysis of the risk of stomach cancer after ulcer surgery in an Amsterdam cohort of postgastrectomy patients. Am J Epidemiol 1991 Jul 1;134(1):14-21.

Tersmette AC, Offerhaus GJ, Giardiello FM, Tersmette KW, Vandenbroucke JP, Tytgat GN. Occurrence of non-gastric cancer in the digestive tract after remote partial gastrectomy: analysis of an Amsterdam cohort. Int J Cancer 1990 Nov 15;46(5):792-5.

Tsujii M, Kawano S, Tsuji S, Nagano K, Ito T, Hayashi N, Fusamoto H, Kamada T, Tamura K. Ammonia: a possible promotor in Helicobacter pylori-related gastric carcinogenesis. Cancer Lett 1992 Jul 31;65(1):15-8.

Wee A, Kang JY, Teh M. Helicobacter pylori and gastric cancer: correlation with gastritis, intestinal metaplasia, and tumour histology. Gut 1992 Aug; 33(8):1029-32.

Wormsley KG. Is chronic long-term inhibition of gastric secretion really dangerous? Scand J Gastroenterol Suppl 1988;146:166-74.

Wotherspoon AC, Ortiz-Hidalgo C, Falzon MR, Isaacson PG. Helicobacter pylori-associated gastritis and primary B-cell gastric lymphoma. Lancet 1991 Nov 9;338(8776):1175-6. Comment in: Lancet 1992 Mar 21;339(8795):745-6.

Wyatt JI. Gastritis and its relation to gastric carcinogenesis. Semin Diagn Pathol 1991 Aug;8(3):137-48.

Zheng T, Mayne ST, Holford TR, Boyle P, Liu W, Chen Y, Mador M, Flannery J. The time trend and age-period-cohort effects on incidence of adenocarcinoma of the stomach in Connecticut from 1955-1989. Cancer 1993 Jul 15;72(2):330-40.

## PATHOLOGY

Ahmed EE, Nicholson G, Seddon I. Abdominal lymph-node granulomas and Helicobacter pylori [letter]. Lancet 1993 Jun 26;341(8861):1666.

Andersen LP, Holck S, Povlsen CO, Elsborg L, Justesen T. Campylobacter pyloridis in peptic ulcer disease. I. Gastric and duodenal infection caused by C. pyloridis: histopathologic and microbiologic findings. Scand J Gastroenterol 1987 Mar;22(2): 219-24.

Armstrong CP, Burton PA, Thompson MH. Helicobacter pylori and gastric carcinoma [letter]. Histopathology 1991 Oct;19(4):389-90. Comment on: Histopathology 1990 Dec;17(6):537-41.

Ascencio F, Fransson LA, Wadstrom T. Affinity of the gastric pathogen Helicobacter pylori for the N-sulphated glycosaminoglycan heparan sulphate. J Med Microbiol 1993 Apr;38(4):240-4.

Blaser MJ. Type B gastritis, aging, and Campylobacter pylori. Arch Intern Med 1988 May;148(5):1021-2.

Borody TJ, Andrews P, Jankiewicz E, Ferch N, Carroll M. Apparent reversal of early gastric mucosal atrophy after triple therapy for Helicobacter pylori. Am J Gastroenterol 1993 Aug;88(8):1266-8.

Borsch G, Schmidt G, Wegener M, Sandmann M, Adamek R, Leverkus F, Reitemeyer E. Campylobacter pylori: prospective analysis of clinical and histological factors associated with colonization of the upper gastrointestinal tract. Eur J Clin Invest 1988 Apr;18(2):133-8.

Carneiro F, David L, Seruca R, Castedo S, Nesland JM, Sobrinho-Simoes M. Hyperplastic polyposis and diffuse carcinoma of the stomach. A study of a family. Cancer 1993 Jul 15;72(2):323-9.

Carneiro F, Taveira-Gomes A, Cabral-Correia A, Vasconcelos-Teixeira A, Barreira R, Cardoso-Oliveira M, Sobrinho-Simoes M. Characteristics of the gastric mucosa of direct relatives of patients with sporadic gastric carcinoma. Eur J Cancer Prev 1993 May;2(3):239-46.

Carrick J, Lee A, Hazell S, Ralston M, Daskalopoulos G. Campylobacter pylori, duodenal ulcer, and gastric metaplasia: possible role of functional heterotopic tissue in ulcerogenesis. Gut 1989 Jun;30(6):790-7.

Caselli M, De Carlo L, Aleotti A, La Corte R, D'Ambrosi A, Trotta F, Alvisi V. Epithelial damage caused by Helicobacter pylori and nonsteroidal anti-inflammatory drugs. Curr Ther Res Clin Exp 1993;53(1):18-22.

Caselli M, Pazzi P, LaCorte R, Aleotti A, Trevisani L, Stabellini G. Campylobacter-like organisms, nonsteroidal anti-inflammatory drugs and gastric lesions in patients with rheumatoid arthritis. Digestion 1989;44(2):101-4.

Chan WY, Hui PK, Chan JK, Cheung PS, Ng CS, Sham CH, Gwi E. Epithelial damage by Helicobacter pylori in gastric ulcers. Histopathology 1991 Jul;19(1):47-53.

Chang FY, Lai KH, Wang TF, Lee FY, Lee SD, Tsai YT. Serum pepsinogen I levels of gastric ulcer patients are determined by the location of the ulcer crater. Gastroenterol Jpn 1992 Feb;27(1):9-14.

Christensen AH, Gjorup T, Hilden J, Fenger C, Henriksen B, Vyberg M, Ostergaard K, Hansen BF. Observer homogeneity in the histologic diagnosis of Helicobacter pylori. Latent class analysis, kappa coefficient, and repeat frequency. Scand J Gastroenterol 1992 Nov;27(11):933-9.

Collins JS, Hamilton PW, Watt PC, Sloan JM, Love AH. Superficial gastritis and Campylobacter pylori in dyspeptic patients--a quantitative study using computer-linked image analysis. J Pathol 1989 Aug;158(4):303-10.

Correa P. Chronic gastritis: a clinico-pathological classification. Am J Gastroenterol 1988 May;83(5): 504-9.

Correa P. Human gastric carcinogenesis: a multistep and multifactorial process--First American Cancer Society Award Lecture on Cancer Epidemiology and Prevention. Cancer Res 1992 Dec 15;52(24): 6735-40.

Correa P. A human model of gastric carcinogenesis. Cancer Res 1988 Jul 1;48(13):3554-60.

Correa P. Is gastric carcinoma an infectious disease? [editorial]. N Engl J Med 1991 Oct 17;325(16): 1170-1. Comment on: N Engl J Med 1991 Oct 17; 325(16):1127-31; N Engl J Med 1991 Oct 17; 325(16):1132-6.

Correa P, Fox J, Fontham E, Ruiz B, Lin YP, Zavala D, Taylor N, Mackinley D, de Lima E, Portilla H, et al. Helicobacter pylori and gastric carcinoma. Serum antibody prevalence in populations with contrasting cancer risks. Cancer 1990 Dec 15; 66(12):2569-74.

Correa P, Ruiz B, Hunter F. Clinical trials as etiologic research tools in Helicobacter-associated gastritis. Scand J Gastroenterol Suppl 1991;181:15-9.

Correa P, Yardley JH. Grading and classification of chronic gastritis: one American response to the Sydney system. Gastroenterology 1992 Jan;102(1): 355-9. Comment in: Gastroenterology 1992 Jan; 102(1):360-1; Gastroenterology 1992 Sep;103(3): 1113; Gastroenterology 1992 Sep;103(3):1113-5; Gastroenterology 1992 Sep;103(3):1116-7; Gastroenterology 1992 Sep;103(3):1117-8.

Cover TL, Dooley CP, Blaser MJ. Characterization of and human serologic response to proteins in Helicobacter pylori broth culture supernatants with vacuolizing cytotoxin activity. Infect Immun 1990 Mar;58(3):603-10.

Craanen ME, Blok P, Dekker W, Ferwerda J, Tytgat GN. Subtypes of intestinal metaplasia and Helicobacter pylori. Gut 1992 May;33(5):597-600.

Craanen ME, Dekker W, Blok P, Ferwerda J, Tytgat GN. Intestinal metaplasia and Helicobacter pylori: an endoscopic bioptic study of the gastric antrum. Gut 1992 Jan;33(1):16-20.

De Koster E, Buset M, Nyst JF, Deltenre M. Gastric screening prospects. Eur J Cancer Prev 1993 May; 2(3):263-8.

DeLuca VA Jr. No acid, no polys--no active gastritis, no dyspepsia. A proposal. J Clin Gastroenterol 1989 Apr;11(2):127-31.

den Hartog G, Jansen JB, van der Meer JW, Lamers CB. Gastric abnormalities in humoral immune deficiency syndromes. Scand J Gastroenterol Suppl 1992;194:38-40.

Dhillon AP, Sawyerr A. Granulomatous gastritis associated with Campylobacter pylori. APMIS 1989 Aug;97(8):723-7.

Di Napoli A, Petrino R, Boero M, Bellis D, Chiandussi L. Quantitative assessment of histological changes in chronic gastritis after eradication of Helicobacter pylori. J Clin Pathol 1992 Sep;45(9):796-8.

Dixon MF. Helicobacter pylori and peptic ulceration: histopathological aspects. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):125-30.

Dooley CP, McKenna D, Humphreys H, Bourke S, Keane CT, Sweeney E, O'Morain C. Histological gastritis in duodenal ulcer: relationship to Campylobacter pylori and effect of ulcer therapy. Am J Gastroenterol 1988 Mar;83(3):278-82.

Drumm B, O'Brien A, Cutz E, Sherman P. Campylobacter pyloridis associated primary gastritis in children. Pediatrics 1987 Aug;80(2):192-5.

Faverly D, Fameree D, Lamy V, Fievez M, Gompel C. Identification of Campylobacter pylori in gastric biopsy smears. Acta Cytol 1990 Mar-Apr;34(2): 205-10. Comment in: Acta Cytol 1991 Mar-Apr; 35(2):252-3.

Fiocca R, Villani L, De Giacomo C, Perego M, Trespi E, Solcia E. Morphological evidence of Campylobacter pylori pathogenicity in chronic gastritis and peptic ulcer. Acta Gastroenterol Belg 1989 May-Aug;52(3-4):324-35.

Fiocca R, Villani L, Luinetti O, Gianatti A, Perego M, Alvisi C, Turpini F, Solcia E. Helicobacter colonization and histopathological profile of chronic gastritis in patients with or without dyspepsia, mucosal erosion and peptic ulcer: a morphological approach to the study of ulcerogenesis in man. Virchows Arch A Pathol Anat Histopathol 1992; 420(6):489-98.

Fiocca R, Villani L, Turpini F, Turpini R, Solcia E. High incidence of campylobacter-like organisms in endoscopic biopsies from patients with gastritis, with or without peptic ulcer. Digestion 1987;38(4): 234-44.

Fischbach W, Bohm S. [Helicobacter pylori associated gastritis and primary stomach lymphoma]. Z Gastroenterol 1993 May;31(5):327-8. (Ger).

Forman D. The etiology of gastric cancer. IARC Sci Publ 1991;(105):22-32.

Fox JG, Correa P, Taylor NS, Lee A, Otto G, Murphy JC, Rose R. Helicobacter mustelae-associated gastritis in ferrets. An animal model of Helicobacter pylori gastritis in humans. Gastroenterology 1990 Aug;99(2):352-61.

Gastroenterologists in Sydney--histology and helicobacter [editorial]. Lancet 1990 Sep 29; 336(8718):779-80. Comment in: Lancet 1990 Dec 1;336(8727):1380-1.

Genta RM, Hamner HW, Graham DY. Gastric lymphoid follicles in Helicobacter pylori infection: frequency, distribution, and response to triple therapy. Hum Pathol 1993 Jun;24(6):577-83.

Genta RM, Lew GM, Graham DY. Changes in the gastric mucosa following eradication of Helicobacter pylori. Mod Pathol 1993 May;6(3): 281-9.

Goodwin CS. Gastric cancer and Helicobacter pylori: the whispering killer? Lancet 1993 Aug 28; 342(8870):507-8.

Goodwin CS, Worsley B. Peptic ulcer disease and Helicobacter pylori infection. Curr Opin Gastroenterol 1992;8(1):122-7.

Graham DY, Alpert LC, Smith JL, Yoshimura HH. Iatrogenic Campylobacter pylori infection is a cause of epidemic achlorhydria. Am J Gastroenterol 1988 Sep;83(9):974-80.

Grosse G, Merker HJ, Niedobitek F, Weimann J, Volkheimer G, Bonk G. [Electron microscopy studies of the significance of colonization of the gastric mucosa with Campylobacter-like organisms]. Pathologe 1988 May;9(3):143-52. (Ger).

Guarner J, Mohar A, Parsonnet J, Halperin D. The association of Helicobacter pylori with gastric cancer and preneoplastic gastric lesions in Chiapas, Mexico. Cancer 1993 Jan 15;71(2):297-301.

Haboubi NY, Wilson GE, Martin DF, Faragher EB, Goddard C, Miller JP. Duodenal gastric heterotopia and Campylobacter pylori: an exception to the rule? [letter]. J Clin Pathol 1989 Oct;42(10):1111-2.

Hakkinen I, Nevalainen T, Paasivuo R, Partanen P, Seppala K, Sipponen P. Gastric cancer associated structure in mucus glycoproteins shown as a clinically useful marker. Gut 1991 Dec;32(12): 1465-9. Comment in: Gut 1992 Dec;33(12):1681.

Haruma K, Okamoto S, Sumii K, Yoshihara M, Tari A, Teshima H, Shimamoto T, Takehara Y, Tanaka S, Yamamoto G, et al. Helicobacter pylori infection and gastroduodenal disease: a comparison of endoscopic findings, histology, and urease test data. Hiroshima J Med Sci 1992 Sep;41(3):65-70.

Hernandez F, Rivera P, Sigaran MF, Aguilar-Ortiz M, Miranda J, Rodriguez-Jenkins O, Murillo M. The first cases of Helicobacter pylori (Campylobacter pylori) reported from Costa Rica. Rev Biol Trop 1990 Nov;38(2B):481-2.

Holcombe C, Kaluba J, Lucas SB. Non-ulcer dyspepsia in Nigeria: A case control study. Trans R Soc Trop Med Hyg 1991 Jul-Aug;85(4):553-5.

Hornick RB. Campylobacter pylori--a bacterial cause of peptic ulcer disease. Bull N Y Acad Med 1988 Jul-Aug;64(6):529-37.

Houck JA, Lucas JG. Absence of Campylobacter-like organisms in Barrett's esophagus. Arch Pathol Lab Med 1989 May;113(5):470-2.

Hsu CT, Yeh C, Cheng HH. Helicobacter pylori, gastritis and duodenitis in the healing process of duodenal ulcer. Taiwan I Hsueh Hui Tsa Chih 1992 Jan;91(1):81-4.

Imoto I, Yoshida M, Shida Y, Watanabe S, Suzuki S. Campylobacter pylori infection and gastric mucosal lesions in patients with chronic liver diseases. J Gastroenterol Hepatol 1989;4 Suppl 1:75-7.

Inouye H, Yamamoto I, Tanida N, Mikami J, Tamura K, Ohno T, Kano M, Shimoyama T. Campylobacter pylori in Japan: bacteriological feature and prevalence in healthy subjects and patients with gastroduodenal disorders. Gastroenterol Jpn 1989;24(5):495-504.

An international association between Helicobacter pylori infection and gastric cancer. The EUROGAST Study Group [published erratum appears in Lancet 1993 Jun 26;341(8861):1668]. Lancet 1993 May 29;341(8857):1359-62.

Isaacson PG. Extranodal lymphomas: the MALT concept. Verh Dtsch Ges Pathol 1992;76:14-23.

Isaacson PG. Pathogenesis and early lesions in extranodal lymphoma. Toxicol Lett 1993 Apr;67(1-3):237-47.

Isaacson PG, Spencer J. Is gastric lymphoma an infectious disease? [editorial]. Hum Pathol 1993 Jun;24(6):569-70.

Jankowski J. Helicobacter pylori infection and gastric cancer [letter]. BMJ 1991 Jun 22;302(6791):1534. Comment on: BMJ 1991 Jun 1;302(6788):1302-5.

Jaskiewicz K, Louwrens HD. Chronic atrophic gastritis in a population at risk for gastric carcinoma. Anticancer Res 1991 Mar-Apr;11(2):835-9.

Johan G, Offerhaus A, Molyvas EN, Hoedemaeker PJ. Helicobacter pylori infection of gastric mucin cell metaplasia: the duodenum revisited. J Pathol 1990 Nov;162(3):239-43.

Johnston BJ, Reed PI, Ali MH. Prevalence of Campylobacter pylori in duodenal and gastric mucosa--relationship to inflammation. Scand J Gastroenterol Suppl 1988;142:69-75.

Kang JK, Kim E, Kim KH, Oh SH. Association of Helicobacter pylori with gastritis and peptic ulcer diseases. Yonsei Med J 1991 Jun;32(2):157-68.

Karita M, Kouchiyama T, Okita K, Nakazawa T. New small animal model for human gastric Helicobacter pylori infection: success in both nude and euthymic mice. Am J Gastroenterol 1991 Nov;86(11): 1596-603.

Kilbridge PM, Dahms BB, Czinn SJ. Campylobacter pylori--associated gastritis and peptic ulcer disease in children. Am J Dis Child 1988 Nov;142(11): 1149-52. Comment in: Am J Dis Child 1989 Aug; 143(8):877-8.

Kuipers EJ, Gracia-Casanova M, Pena AS, Pals G, Van Kamp G, Kok A, Kurz-Pohlmann E, Pels NF, Meuwissen SG. Helicobacter pylori serology in patients with gastric carcinoma. Scand J Gastroenterol 1993 May;28(5):433-7.

Langdale-Brown B, Haqqani MT. Acridine orange fluorescence, Campylobacter pylori, and chronic gastritis. Scand J Gastroenterol 1990 Feb;25(2): 127-33.

Lechago J, Correa P. Prolonged achlorhydria and gastric neoplasia: is there a causal relationship? [editorial]. Gastroenterology 1993 May;104(5): 1554-7. Comment on: Gastroenterology 1993 May;104(5):1356-70.

Loffeld RJ, Loffeld BC, Arends JW, Flendrig JA, van Spreeuwel JP. Retrospective study of Campylobacter-like organisms in patients undergoing partial gastrectomy. J Clin Pathol 1988 Dec;41(12):1313-5.

Loffeld RJ, Stobberingh E, Flendrig JA, Arends JW. Helicobacter pylori in gastric biopsy specimens. Comparison of culture, modified Giemsa stain, and immunohistochemistry. A retrospective study. J Pathol 1991 Sep;165(1):69-73.

Loffeld RJ, Willems I, Flendrig JA, Arends JW. Helicobacter pylori and gastric carcinoma. Histopathology 1990 Dec;17(6):537-41. Comment in: Histopathology 1991 Oct;19(4):389-90.

Ludtke FE, Maierhof S, Kohler H, Bauer FE, Tegeler R, Schauer A, Lepsien G. [Helicobacter pylori colonization in surgical patients]. Chirurg 1991 Oct;62(10):732-8. (Ger).

Maaroos HI, Kekki M, Sipponen P, Salupere V, Villako K. Grade of Helicobacter pylori colonisation, chronic gastritis and relative risks of contracting high gastric ulcers: a seven-year follow-up. Scand J Gastroenterol Suppl 1991;186:65-72.

Madan E, Kemp J, Westblom TU, Subik M, Sexton S, Cook J. Evaluation of staining methods for identifying Campylobacter pylori. Am J Clin Pathol 1988;90(4):450-3.

Mahony MJ, Wyatt JI, Littlewood JM. Campylobacter pylori gastritis. Arch Dis Child 1988 Jun;63(6): 654-5.

Malfertheiner P, Bode G, Stanescu A, Ditschuneit H. Gastric metaplasia and Campylobacter pylori in duodenal ulcer disease: an ultrastructural analysis. Gastroenterol Clin Biol 1989;13(1 Pt 1):71B-74B.

Marshall BJ. Campylobacter pylori: its link to gastritis and peptic ulcer disease. Rev Infect Dis 1990 Jan-Feb;12 Suppl 1:S87-93.

Marshall BJ. Campylobacter pylori infection: diagnosis and therapy [editorial]. Med J Aust 1989 Oct 16; 151(8):426-7.

Marshall BJ, Plankey MW, Hoffman SR, Boyd CL, Dye KR, Frierson HF Jr, Guerrant RL, McCallum RW. A 20-minute breath test for helicobacter pylori. Am J Gastroenterol 1991 Apr;86(4):438-45.

Marshall BJ, Warren JR. Unidentified curved bacilli in the stomach of patients with gastritis and peptic ulceration. Lancet 1984 Jun 16;1(8390):1311-5.

McHenry L Jr, Vuyyuru L, Schubert ML. Helicobacter pylori and duodenal ulcer disease: the somatostatin link? Gastroenterology 1993 May;104(5):1573-5.

Mendes EN, Queiroz DM, Rocha GA, Barbosa AJ. Campylobacter colonisation, duodenal ulceration, and changes in gastric mucosa [letter]. J Clin Pathol 1988 Sep;41(9):1027.

Morrison JM, Veillon D, Gonzalez E. From the Departments of Internal Medicine and Pathology. LSU Medical Center, Shreveport. Benign gastric ulcer and H pylori infection [clinical conference]. J La State Med Soc 1991 Dec;143(12):13-5.

Nanivadekar SA, Bhat PP, Sawant PD, Shroff CP, Patel HD. Unusual features of Helicobacter (Campylobacter) pylori--associated gastritis in India. A study of 200 cases. J Assoc Physicians India 1990 Sep;38 Suppl 1:695-8.

Nomura A, Stemmermann GN, Chyou PH, Kato I, Perez-Perez GI, Blaser MJ. Helicobacter pylori infection and gastric carcinoma among Japanese Americans in Hawaii. N Engl J Med 1991 Oct 17; 325(16):1132-6. Comment in: N Engl J Med 1991 Oct 17;325(16):1170-1.

Offerhaus GJ, Molyvas EN, Hoedemaeker PJ. Helicobacter pylori infection of gastric mucin cell metaplasia: The duodenum revisited. J Pathol 1990 Nov;162(3):239-43.

Offerhaus GJ, Tersmette AC, Tersmette KW, Tytgat GN, Hoedemaeker PJ, Vandenbroucke JP. Gastric, pancreatic, and colorectal carcinogenesis following remote peptic ulcer surgery. Review of the literature with the emphasis on risk assessment and underlying mechanism. Mod Pathol 1988 Sep;1(5): 352-6.

Parsonnet J. Helicobacter pylori and gastric cancer. Gastroenterol Clin North Am 1993 Mar;22(1): 89-104.

Parsonnet J, Vandersteen D, Goates J, Sibley RK, Pritikin J, Chang Y. Helicobacter pylori infection in intestinal- and diffuse-type gastric adenocarcinomas. Published erratum appears in J Natl Cancer Inst 1991 Jun 19;83(12):881. J Natl Cancer Inst 1991 May 1;83(9):640-3.

Paull G, Yardley JH. Gastric and esophageal Campylobacter pylori in patients with Barrett's esophagus. Gastroenterology 1988 Jul;95(1):216-8.

Paz-Bouza JI, Garcia I, Abad MM, Munoz E, Rincon MR, Bullon A. Chronic gastritis associated with Helicobacter pylori. Correlation between histological and bacteriological findings. Histol Histopathol 1991 Oct;6(4):485-9.

Peetsalu A, Maaroos HI, Sipponen P, Peetsalu M. Long-term effect of vagotomy on gastric mucosa and Helicobacter pylori in duodenal ulcer patients. Scand J Gastroenterol Suppl 1991;186:77-83.

Penston JG, Dixon JS, Selway SA, Wormsley KG. Gastric histology and plasma gastrin response to a meal in patients with duodenal ulcer disease after five years treatment with ranitidine. Aliment Pharmacol Ther 1990 Aug;4(4):381-92.

Pettross CW, Appleman MD, Cohen H, Valenzuela JE, Chandrasoma P, Laine LA. Prevalence of Campylobacter pylori and association with antral mucosal histology in subjects with and without upper gastrointestinal symptoms. Dig Dis Sci 1988 Jun;33(6):649-53.

Pinto MM, Meriano FV, Afridi S, Taubin HL. Cytodiagnosis of Campylobacter pylori in Papanicolaou-stained imprints of gastric biopsy specimens. Acta Cytol 1991 Mar-Apr;35(2):204-6.

Queiroz DM, Mendes EN, Rocha GA, Moura SB, Resende LM, Cunha-Melo JR, Coelho LG, Passos MC, Oliveira CA, Lima Junior GF, et al. Histamine content of the oxyntic mucosa from duodenal ulcer patients: effect of Helicobacter pylori eradication. Am J Gastroenterol 1993 Aug; 88(8):1228-32.

Raedsch R. [Virulence factors of Helicobacter pylori and pathomechanisms of mucosal damage]. Z Gastroenterol Verh 1991 Mar;26:281-2. (Ger).

Rauws EA. Campylobacter pylori as possible factor in peptic ulcer recurrence. Acta Gastroenterol Belg 1989 May-Aug;52(3-4):320-3.

Recavarren-Arce S, Leon-Barua R, Cok J, Berendson R, Gilman RH, Ramirez-Ramos A, Rodriguez C, Spira WM. Helicobacter pylori and progressive gastric pathology that predisposes to gastric cancer. Scand J Gastroenterol Suppl 1991;181:51-7.

Ruhl GH, Morgenroth K. [Campylobacter pylori--status of knowledge from the morphologic viewpoint]. Leber Magen Darm 1988 Feb;18(1):17-28. (Ger).

Saita H, Murakami M, Yoo JK, Teramura S, Dekigai H, Takahashi Y, Kita T. Link between Helicobacter pylori-associated gastritis and duodenal ulcer. Dig Dis Sci 1993 Jan;38(1):117-22.

Sarosiek J, Marshall BJ, Peura DA, Hoffman S, Feng T, McCallum RW. Gastroduodenal mucus gel thickness in patients with Helicobacter pylori: a method for assessment of biopsy specimens. Am J Gastroenterol 1991 Jun;86(6):729-34.

Scott N, Lansdown M, Diament R, Rathbone B, Murday V, Wyatt JI, McMahon M, Dixon MF, Quirke P. Helicobacter gastritis and intestinal metaplasia in a gastric cancer family [letter]. Lancet 1990 Mar 24;335(8691):728.

Shallcross TM, Rathbone BJ, Wyatt JI, Heatley RV. Helicobacter pylori associated chronic gastritis and peptic ulceration in patients taking non-steroidal anti-inflammatory drugs. Aliment Pharmacol Ther 1990 Oct;4(5):515-22.

Sierra R, Ohshima H, Munoz N, Teuchmann S, Pena AS, Malaveille C, Pignatelli B, Chinnock A, el Ghissassi F, Chen C, et al. Exposure to N-nitrosamines and other risk factors for gastric cancer in Costa Rican children. IARC Sci Publ 1991;(105):162-7.

Sipponen P. Helicobacter pylori and gastric premalignant conditions. Acta Gastroenterol Belg 1991 Sep-Dec;54(5-6):340-4.

Sipponen P. Helicobacter pylori infection--a common worldwide environmental risk factor for gastric cancer? [editorial]. Endoscopy 1992 Jun;24(5): 424-7.

Sipponen P, Kekki M, Siurala M. Increased risk of gastric cancer in males affects the intestinal type of cancer and is independent of age, location of the tumour and atrophic gastritis. Br J Cancer 1988 Mar;57(3):332-6.

Sipponen P, Kekki M, Siurala M. The Sydney System: epidemiology and natural history of chronic gastritis. J Gastroenterol Hepatol 1991 May-Jun; 6(3):244-51.

Sipponen P, Kosunen TU, Valle J, Riihela M, Seppala K. Helicobacter pylori infection and chronic gastritis in gastric cancer. J Clin Pathol 1992 Apr;45(4):319-23.

Sipponen P, Seppala K. Gastric carcinoma: failed adaptation to Helicobacter pylori. Scand J Gastroenterol Suppl 1992;193:33-8.

Sirigu F, Simonetta Capeccioni P, Dessi A, Usai P. Morphological study of the gastric antral mucosa colonized by campylobacter pylori. Ital J Gastroenterol 1990 Feb;22(1):22-3.

Siurala M, Sipponen P, Kekki M. Campylobacter pylori in a sample of Finnish population: relations to morphology and functions of the gastric mucosa. Gut 1988 Jul;29(7):909-15.

Sjoblom SM, Sipponen P, Miettinen M, Karonen SL, Jarvinen HJ. Gastroscopic screening for gastric carcinoids and carcinoma in pernicious anemia. Endoscopy 1988 Mar;20(2):52-6.

Smoot DT, Resau JH, Naab T, Desbordes BC, Gilliam T, Bull-Henry K, Curry SB, Nidiry J, Sewchand J, Mills-Robertson K, et al. Adherence of Helicobacter pylori to cultured human gastric epithelial cells. Infect Immun 1993 Jan;61(1):350-5.

Spychal RT, Goggin PM, Marrero JM, Saverymuttu SH, Yu CW, Corbishley CM, Maxwell JD, Northfield TC. Surface hydrophobicity of gastric mucosa in peptic ulcer disease. Relationship to gastritis and Campylobacter pylori infection. Gastroenterology 1990 May;98(5 Pt 1):1250-4.

Steininger H. [Histologic detection of Campylobacter pylori]. Pathologe 1989 Jan;10(1):27-30. (Ger).

Stolte M. Helicobacter pylori gastritis and gastric MALT-lymphoma [letter]. Lancet 1992 Mar 21; 339(8795):745-6. Comment on: Lancet 1991 Nov 9;338(8776):1175-6.

Stolte M. [Ulcer of the stomach and duodenum: enormous change in diagnosis and therapy]. Leber Magen Darm 1991 Jun;21(4):141-6. (Ger).

Stolte M, Eidt S. Healing gastric MALT lymphomas by eradicating H pylori? Lancet 1993 Sep 4; 342(8871):568. Comment on: Lancet 1993 Sep 4; 342(8871):571-4; Lancet 1993 Sep 4; 342(8871): 575-7.

Talley NJ, Zinsmeister AR, Weaver A, DiMagno EP, Carpenter HA, Perez-Perez GI, Blaser MJ. Gastric adenocarcinoma and Helicobacter pylori infection. J Natl Cancer Inst 1991 Dec 4;83(23):1734-9.

Tersmette AC, Goodman SN, Offerhaus GJ, Tersmette KW, Giardiello FM, Vandenbroucke JP, Tytgat GN. Multivariate analysis of the risk of stomach cancer after ulcer surgery in an Amsterdam cohort of postgastrectomy patients. Am J Epidemiol 1991 Jul 1;134(1):14-21.

Tersmette AC, Offerhaus GJ, Giardiello FM, Tersmette KW, Vandenbroucke JP, Tytgat GN. Occurrence of non-gastric cancer in the digestive tract after remote partial gastrectomy: analysis of an Amsterdam cohort. Int J Cancer 1990 Nov 15;46(5):792-5.

Thaler W, Stoss F, Wohlgenannt D, Nessler E. [Reflections on the significance of detecting Campylobacter pylori in a biopsy of the stomach mucosa]. Zentralbl Chir 1989;114(24):1540-3. (Ger).

Tovey FI, Yiu YC, Husband EM, Baker L, Jayaraj AP. Helicobacter pylori and peptic ulcer recurrence [letter]. Gut 1992 Sep;33(9):1293. Comment on: Gut 1992 Mar;33(3):289-92.

Tsujii M, Kawano S, Tsuji S, Nagano K, Ito T, Hayashi N, Fusamoto H, Kamada T, Tamura K. Ammonia: a possible promotor in Helicobacter pylori-related gastric carcinogenesis. Cancer Lett 1992 Jul 31;65(1):15-8.

Tytgat GN. Endoscopic gastritis and duodenitis. Endoscopy 1992 Jan-Feb;24(1-2):34-40.

Veereman Wauters G, Ferrell L, Ostroff JW, Heyman MB. Hyperplastic gastric polyps associated with persistent Helicobacter pylori infection and active gastritis. Am J Gastroenterol 1990 Oct;85(10): 1395-7.

Wee A, Kang JY, Teh M. Helicobacter pylori and gastric cancer: correlation with gastritis, intestinal metaplasia, and tumour histology. Gut 1992 Aug; 33(8):1029-32.

Workshop on Gastroduodenal Pathology and Helicobacter pylori, 28-30 November 1991. Eur J Cancer Prev 1992 Aug;1(5):389-90.

Wormsley KG. Is chronic long-term inhibition of gastric secretion really dangerous? Scand J Gastroenterol Suppl 1988;146:166-74.

Wotherspoon AC, Ortiz-Hidalgo C, Falzon MR, Isaacson PG. Helicobacter pylori-associated gastritis and primary B-cell gastric lymphoma. Lancet 1991 Nov 9;338(8776):1175-6. Comment in: Lancet 1992 Mar 21;339(8795):745-6.

Wyatt JI. Gastritis and its relation to gastric carcinogenesis. Semin Diagn Pathol 1991 Aug;8(3):137-48.

Wyatt JI, Rathbone BJ. Gastric metaplasia in the duodenum and Campylobacter pylori. Gastroenterol Clin Biol 1989;13(1 Pt 1):78B-82B.

Wyle FA, Tarnawski A, Dabros W, Gergely H. Campylobacter pylori interactions with gastric cell tissue culture. J Clin Gastroenterol 1990; 12 Suppl 1:S99-103.

Wyle FA, Tarnawski A, Schulman D, Dabros W. Evidence for gastric mucosal cell invasion by C. pylori: an ultrastructural study. J Clin Gastroenterol 1990;12 Suppl 1:S92-8.

Yamashita T, Fukuda Y, Tonokatsu Y, Abo H. [Helicobacter pylori and gastric mucosa]. Nippon Naika Gakkai Zasshi 1993 Feb 10;82(2):286-92. (Jpn).

Yap I, Kung JS, Wee A, Tay HH, Guan R, Ho B, Kang JY. Comparison of culture and histology for the identification of Helicobacter pylori in endoscopic biopsies. Ann Acad Med Singapore 1990 May;19(3):354-6.

Yardley JH. Campylobacter pylori and large gastric folds. Radiology 1989 Jun;171(3):609-11.

Yardley JH, Paull G. Campylobacter pylori: a newly recognized infectious agent in the gastrointestinal tract. Am J Surg Pathol 1988;12 Suppl 1:89-99.

Yeung CK, Fu KH, Yuen KY, Ng WF, Tsang TM, Branicki FJ, Saing H. Helicobacter pylori and associated duodenal ulcer. Arch Dis Child 1990 Nov;65(11):1212-6.

Yoshida M, Imoto I, Suzuki S. [Distribution and prevalence of Campylobacter pylori in the stomach]. Nippon Shokakibyo Gakkai Zasshi 1989 May;86(5):1025-30. (Jpn).

Zheng T, Mayne ST, Holford TR, Boyle P, Liu W, Chen Y, Mador M, Flannery J. The time trend and age-period-cohort effects on incidence of adenocarcinoma of the stomach in Connecticut from 1955-1989. Cancer 1993 Jul 15;72(2):330-40.

## PATHOPHYSIOLOGY

Asaka M, Kato M, Kudo M, Meguro T, Kimura T, Miyazaki T, Inoue K. The role of Helicobacter pylori in peptic ulcer disease. Gastroenterol Jpn 1993 May;28 Suppl 5:163-7.

Barnett JL, Behler EM, Appelman HD, Elta GH. Campylobacter pylori is not associated with gastroparesis. Dig Dis Sci 1989 Nov;34(11):1677-80.

Bartsch H, Ohshima H, Pignatelli B, Calmels S. Endogenously formed N-nitroso compounds and nitrosating agents in human cancer etiology. Pharmacogenetics 1992 Dec;2(6):272-7.

Beardshall K, Moss S, Gill J, Levi S, Ghosh P, Playford RJ, Calam J. Suppression of Helicobacter pylori reduces gastrin releasing peptide stimulated gastrin release in duodenal ulcer patients. Gut 1992 May;33(5):601-3.

Bechi P, Dei R, Di Bello MG, Masini E. Helicobacter pylori potentiates histamine release from serosal rat mast cells in vitro. Dig Dis Sci 1993 May;38(5):944-9.

Beglinger C. [Pathophysiology of ulcer disease]. Ther Umsch 1992 Nov;49(11):743-8. (Ger).

Boyd EJ, Wormsley KG. Nocturnal gastric secretion in duodenal ulcer patients and healthy controls. Ranges and reproducibility. Scand J Gastroenterol 1992;27(1):44-6.

Brady CE 3d, Hadfield TL, Hyatt JR, Utts SJ. Acid secretion and serum gastrin levels in individuals with Campylobacter pylori. Gastroenterology 1988 Apr;94(4):923-7.

Cave TR, Cave DR. Helicobacter pylori stimulates pepsin secretion from isolated rabbit gastric glands. Scand J Gastroenterol Suppl 1991;181:9-14.

Cederberg A, Varis K, Salmi HA, Sipponen P, Harkonen M, Sarna S. Young onset peptic ulcer disease and non-ulcer dyspepsia are separate entities. Scand J Gastroenterol Suppl 1991; 186:33-44.

Chittajallu RS, Howie CA, McColl KE. Effect of Helicobacter pylori on parietal cell sensitivity to pentagastrin in duodenal ulcer subjects. Scand J Gastroenterol 1992 Oct;27(10):857-62.

Chuang CN, Chen MC, Soll AH. Gastrin-histamine interactions: direct and paracrine elements. Scand J Gastroenterol Suppl 1991;180:95-103.

Clearfield HR. Helicobacter pylori: aggressor or innocent bystander? Med Clin North Am 1991 Jul;75(4):815-29.

Collen MJ, Strong RM. Helicobacter pylori in duodenal ulcer patients with idiopathic gastric acid hypersecretion. Dig Dis Sci 1993 Jan;38(1):132-6.

Collins JS. Role of Helicobacter pylori in gastritis and duodenitis in man. Agents Actions 1992;Spec No:C47-9.

Cover TL, Halter SA, Blaser MJ. Characterization of HeLa cell vacuoles induced by Helicobacter pylori broth culture supernatant. Hum Pathol 1992 Sep;23(9):1004-10.

Craig PM, Territo MC, Karnes WE, Walsh JH. Helicobacter pylori secretes a chemotactic factor for monocytes and neutrophils. Gut 1992 Aug;33(8):1020-3.

Czinn SJ, Bertram TA, Murray PD, Yang P. Relationship between gastric inflammatory response and symptoms in patients infected with Helicobacter pylori. Scand J Gastroenterol Suppl 1991;181:33-7.

Dixon M. Acid, ulcers, and H pylori. Lancet 1993 Aug 14;342(8868):384-5.

Dooley CP. Helicobacter pylori infection and peptic ulcer disease. Curr Opin Gastroenterol 1993;9(1):112-7.

Drapers JA, Tytgat KM, Rauws EA, Tytgat GN. [The course of benign stomach ulcer; results of a follow-up study]. Ned Tijdschr Geneeskd 1990 Mar 31;134(13):643-7. (Dut).

Evans DG, Evans DJ Jr, Graham DY. Adherence and internalization of Helicobacter pylori by HEp-2 cells. Gastroenterology 1992 May;102(5):1557-67.

Eysselein VE, Kovacs TO, Kleibeuker JH, Maxwell V, Reedy T, Walsh JH. Regulation of gastric acid secretion by gastrin in duodenal ulcer patients and healthy subjects. Gastroenterology 1992 Apr;102(4 Pt 1):1142-8.

Feldman M. Helicobacter pylori and the etiology of duodenal ulcer: necessary but not sufficient [editorial]. Am J Med 1991 Dec;91(6):563-5. Comment on: Am J Med 1991 Dec;91(6):566-72.

Fenn GC, Sturrock RD. Non-steroidal drug-induced peptic ulceration [letter]. Br J Rheumatol 1993 Mar;32(3):257-8. Comment on: Br J Rheumatol 1992 Jul;31(7):435-6.

Festen HP. Can the natural history of duodenal ulcer disease be altered? Eur J Gastroenterol Hepatol 1993;5(5):307-9.

Fich A, Talley NJ, Shorter RG, Phillips SF. Zollinger-Ellison syndrome. Relation to Helicobacter pylori-associated chronic gastritis and gastric acid secretion. Dig Dis Sci 1991 Jan;36(1):10-4.

Forman D, Al-Dabbagh S, Knight T, Doll R. Nitrate exposure and the carcinogenic process. Ann N Y Acad Sci 1988;534:597-603.

Fox JG, Otto G, Murphy JC, Taylor NS, Lee A. Gastric colonization of the ferret with Helicobacter species: natural and experimental infections. Rev Infect Dis 1991 Jul-Aug;13 Suppl 8:S671-80.

Fraser AG, Bickley J, Owen RJ, Pounder RE. DNA fingerprints of Helicobacter pylori before and after treatment with omeprazole. J Clin Pathol 1992 Dec;45(12):1062-5.

Freston JW. Mechanisms of relapse in peptic ulcer disease. J Clin Gastroenterol 1989;11 Suppl 1: S34-8.

Freston JW. The pathophysiological and pharmacological basis of peptic ulcer therapy. Toxicol Pathol 1988;16(2):260-6.

Fritsch WP. [Significance of Campylobacter pylori in gastritis, non-ulcer dyspepsia and ulcer. A critical observation]. Med Klin 1989 Aug 15;84(8):400-4. (Ger).

Gill HH, Kalro RH, Desai HG. Campylobacter pylori. A new era in gastroduodenal disorders? J Assoc Physicians India 1990 Feb;38(2):147-50. Comment in: J Assoc Physicians India 1990 Oct;38(10):821.

Goggin PM, Northfield TC, Spychal RT. Factors affecting gastric mucosal hydrophobicity in man. Scand J Gastroenterol Suppl 1991;181:65-73.

Gold BD, Huesca M, Sherman PM, Lingwood CA. Helicobacter mustelae and Helicobacter pylori bind to common lipid receptors in vitro. Infect Immun 1993 Jun;61(6):2632-8.

Goldschmiedt M, Peterson WL. The role of Helicobacter pylori in peptic ulcer disease. Semin Gastrointest Dis 1993;4(1):13-20.

Goodwin CS. Duodenal ulcer, Campylobacter pylori, and the leaking roof concept. Lancet 1988 Dec 24-31;2(8626-8627):1467-9.

Goodwin CS, Gordon A, Burke V. Helicobacter pylori (Campylobacter pylori) and duodenal ulcer [editorial]. Med J Aust 1990 Jul 16;153(2):66-7.

Graham DY. Campylobacter pylori as a pathogenetic factor in duodenal ulcer: the case for. Scand J Gastroenterol Suppl 1989;160:46-52.

Graham DY. The relationship between nonsteroidal anti-inflammatory drug use and peptic ulcer disease. Gastroenterol Clin North Am 1990 Mar;19(1): 171-82.

Graham DY, Go MF, Lew GM, Genta RM, Rehfeld JF. Helicobacter pylori infection and exaggerated gastrin release. Effects of inflammation and progastin processing. Scand J Gastroenterol 1993 Aug;28(8):690-4.

Graham DY, Lew GM, Lechago J. Antral G-cell and D-cell numbers in Helicobacter pylori infection: effect of H. pylori eradication. Gastroenterology 1993 Jun;104(6):1655-60.

Graham DY, Opekun A, Lew GM, Evans DJ Jr, Klein PD, Evans DG. Ablation of exaggerated meal-stimulated gastrin release in duodenal ulcer patients after clearance of Helicobacter (Campylobacter) pylori infection. Am J Gastroenterol 1990 Apr; 85(4):394-8.

Graham DY, Opekun A, Lew GM, Klein PD, Walsh JH. Helicobacter pylori-associated exaggerated gastrin release in duodenal ulcer patients. The effect of bombesin infusion and urea ingestion. Gastroenterology 1991 Jun;100(6):1571-5.

Guslandi M. Helicobacter pylori and peptic ulcer recurrence [letter]. Gut 1992 Sep;33(9):1293. Comment on: Gut 1992 Mar;33(3):289-92.

Guslandi M. Helicobacter pylori, mucus, and gastric ulcer [letter]. Lancet 1990 Mar 24;335(8691):728-9. Comment on: Lancet 1990 Jan 27;335(8683):193-5.

H pylori causes most ulcers. P T 1993;18(4):333.

Halter F, Wilder-Smith CH. Gastrin: friend or foe of peptic ulcer? J Clin Gastroenterol 1991;13 Suppl 1: S75-82.

Havu N, Maaroos HI, Sipponen P. Argyrophil cell hyperplasia associated with chronic corpus gastritis in gastric ulcer disease. Scand J Gastroenterol Suppl 1991;186:90-4.

Hendrix TR, Yardley JH. Campylobacter gastritis and associated disorders. South Med J 1988 Jul;81(7): 859-62.

Hengels KJ. [Effect of Helicobacter pylori on stomach physiology]. Z Gastroenterol Verh 1991 Mar;26: 282-4. (Ger).

Hengels KJ, Strohmeyer G. [The role of Helicobacter pylori in ulcer disease]. Verh Dtsch Ges Inn Med 1991;97:195-201. (Ger).

Henriksson K, Uribe A, Sandstedt B, Nord CE. Helicobacter pylori infection, ABO blood group, and effect of misoprostol on gastroduodenal mucosa in NSAID-treated patients with rheumatoid arthritis. Dig Dis Sci 1993 Sep;38(9):1688-96.

Heresbach D, Raoul JL, Bretagne JF, Minet J, Donnio PY, Ramee MP, Siproudhis L, Gosselin M. Helicobacter pylori: a risk and severity factor of non-steroidal anti-inflammatory drug induced gastropathy. Gut 1992 Dec;33(12):1608-11.

Hudson N, Balsitis M, Filipowicz F, Hawkey CJ. Effect of Helicobacter pylori colonisation on gastric mucosal eicosanoid synthesis in patients taking non-steroidal anti-inflammatory drugs. Gut 1993 Jun; 34(6):748-51.

Hudson N, Hawkey CJ. Non-steroidal anti-inflammatory drug-associated upper gastrointestinal ulceration and complications. Eur J Gastroenterol Hepatol 1993;5(6):412-9.

Hudson N, Hawthorne AB, Cole AT, Jones PD, Hawkey CJ. Mechanisms of gastric and duodenal damage and protection. Hepatogastroenterology 1992 Feb;39 Suppl 1:31-6.

Hui WM, Ho J, Lam SK. Pathogenetic role of Helicobacter pylori in duodenal ulcer disease. Multivariate analysis of factors affecting relapse. Dig Dis Sci 1991 Apr;36(4):424-30.

Hui WM, Lam SK, Chau PY, Ho J, Lui I, Lai CL, Lok AS, Ng MM. Persistence of Campylobacter pyloridis despite healing of duodenal ulcer and improvement of accompanying duodenitis and gastritis. Dig Dis Sci 1987 Nov;32(11):1255-60.

Hunt RH. pH and Hp--gastric acid secretion and Helicobacter pylori: implications for ulcer healing and eradication of the organism [editorial]. Am J Gastroenterol 1993 Apr;88(4):481-3. Comment on: Am J Gastroenterol 1993 Apr;88(4):491-5.

Hunt RH. The protective role of gastric acid. Scand J Gastroenterol Suppl 1988;146:34-9.

Iglehart IW III, Edlow DW, Mills L Jr, Morrison SA, Hochberg MC. The presence of Campylobacter pylori in nonsteroidal antiinflammatory drug associated gastritis. J Rheumatol 1989 May;16(5): 599-603.

Ishimori A, Kawamura T, Koizumi F, Honda I, Nagahara N, Obata Y, Asaki S, Sekine H. [Campylobacter pylori and diseases of the stomach]. Rinsho Byori 1989 Nov;37(11):1238-45. (Jpn).

Kamata T. [Physiopathology, diagnosis and therapy of stomach diseases]. Nippon Naika Gakkai Zasshi 1993 Mar 10;82(3):395-7. (Jpn).

Kang JY, Wee A. Helicobacter pylori and gastric acid output in peptic ulcer disease. Dig Dis Sci 1991 Jan;36(1):5-9.

Karnes WE Jr, Ohning GV, Sytnik B, Kim SW, Walsh JH. Elevation of meal-stimulated gastrin release in subjects with Helicobacter pylori infection: reversal by low intragastric pH. Rev Infect Dis 1991 Jul-Aug;13 Suppl 8:S665-70.

Karttunen T, Niemela S. Campylobacter pylori and duodenogastric reflux in peptic ulcer disease and gastritis [letter]. Lancet 1988 Jan 16;1(8577):118.

Kawano S, Tsujii M, Nagano K, Ogihara T, Tanimura H, Hayashi N, Ito T, Sato N, Kamada T, Tamura K, et al. Different effect of Helicobacter pylori on the human gastric antral and body mucosal intracellular mucin. Scand J Gastroenterol 1990 Oct;25(10):997-1003.

Kekki M, Maaroos HI, Sipponen P, Uibo R, Tammur R, Tamm A, Villako K. Grade of Helicobacter pylori colonisation in relation to gastritis: a six-year population-based follow-up study. Scand J Gastroenterol Suppl 1991;186:142-50.

Kerr GD. Mechanisms of injury and sequelae of Helicobacter pylori infection. Concluding commentary--the gastroenterologist's viewpoint. Scand J Gastroenterol Suppl 1991;187:107-10.

Khanna MU, Abraham P. Determinants of acid secretion. J Assoc Physicians India 1990 Sep; 38 Suppl 1:727-30.

Khanna MU, Abraham P, Nair NG, Mistry FP, Vora IM. Colloidal bismuth subcitrate in non-ulcer dyspepsia. J Postgrad Med 1992 Jul-Sep;38(3): 106-8.

Kim H, Park C, Jang WI, Lee KH, Kwon SO, Robey-Cafferty SS, Ro JY, Lee YB. The gastric juice urea and ammonia levels in patients with Campylobacter pylori. Am J Clin Pathol 1990 Aug;94(2):187-91.

Knight TM, Forman D, Leach S, Packer P, Vindigni C, Minacci C, Lorenzini L, Tosi P, Frosini G, Marini M, et al. N-nitrosoproline excretion in patients with gastric lesions and in a control population. IARC Sci Publ 1988;(89):97-101.

Koop H. [Current pathogenetic principles in peptic ulcer]. Schweiz Rundsch Med Prax 1992 Jul 28; 81(31-32):927-8. (Ger).

Koop H. [New aspects in the pathogenesis of gastroduodenal ulcer]. Dtsch Med Wochenschr 1992 Aug 14;117(33):1243-6. (Ger).

Koop H, Stumpf M, Eissele R, Lamberts R, Stockmann F, Creutzfeldt W, Arnold R. Antral Helicobacter pylori-like organisms in different states of gastric acid secretion. Digestion 1991;48(4):230-6.

Kurokawa K. [Gastric mucosa and peptic ulcers]. Nippon Naika Gakkai Zasshi 1991 Jan 10;80(1): 41-6. (Jpn).

Labenz J, Gyenes E, Ruhl GH, Wieczorek M, Hluchy J, Borsch G. [Is Helicobacter pylori gastritis a macroscopic diagnosis?]. Dtsch Med Wochenschr 1993 Feb 12;118(6):176-80. (Ger).

Laine L. Helicobacter pylori and non-ulcer dyspepsia. Gastroenterology 1992 Jul;103(1):340-1.

Laine L. Helicobacter pylori, gastric ulcer, and agents noxious to the gastric mucosa. Gastroenterol Clin North Am 1993 Mar;22(1):117-25.

Laine L, Marin-Sorensen M, Weinstein WM. Nonsteroidal antiinflammatory drug-associated gastric ulcers do not require Helicobacter pylori for their development. Am J Gastroenterol 1992 Oct;87(10):1398-402.

Lam SK. Why do ulcers heal with sucralfate? Scand J Gastroenterol Suppl 1990;173:6-16.

Lambert JR, Dunn K, Borromeo M, Korman MG, Hansky J. Campylobacter pylori--a role in non-ulcer dyspepsia? Scand J Gastroenterol Suppl 1989;160: 7-13.

Lamberts R, Creutzfeldt W, Struber HG, Brunner G, Solcia E. Long-term omeprazole therapy in peptic ulcer disease: gastrin, endocrine cell growth, and gastritis. Gastroenterology 1993 May;104(5): 1356-70. Comment in: Gastroenterology 1993 May; 104(5):1554-7.

Lamers CB. Gastric secretory abnormalities in duodenal ulcer: primary or secondary to Helicobacter pylori infection? Scand J Gastroenterol Suppl 1992;194: 99-103.

Lamers CB, Rieu PN, Veenendaal RA, van Duijn W, Offerhaus GJ, Joosten HJ, Pena AS. Effect of partial gastrectomy on serum anti-Helicobacter pylori immunoglobulins in peptic ulcer patients. Dig Dis Sci 1991 Dec;36(12):1697-701.

Langton SR, Cesareo SD. Helicobacter pylori associated phospholipase A2 activity: a factor in peptic ulcer production? J Clin Pathol 1992 Mar; 45(3):221-4.

Lanza FL, Evans DG, Graham DY. Effect of Helicobacter pylori infection on the severity of gastroduodenal mucosal injury after the acute administration of naproxen or aspirin to normal volunteers. Am J Gastroenterol 1991 Jun;86(6): 735-7.

Leivonen M, Sipponen P, Kivilaakso E. Gastric changes in coronary-operated patients with low-dose aspirin. Scand J Gastroenterol 1992 Nov;27(11): 912-6.

Leung KM, Hui PK, Chan WY, Thomas TM. Helicobacter pylori-related gastritis and gastric ulcer. A continuum of progressive epithelial degeneration. Am J Clin Pathol 1992 Dec;98(6): 569-74. Comment in: Am J Clin Pathol 1992 Dec; 98(6):549-51.

Levi S, Beardshall K, Desa LA, Calam J. Campylobacter pylori, gastrin, acid secretion, and duodenal ulcers [letter]. Lancet 1989 Sep 9;2(8663): 613.

Levi S, Beardshall K, Haddad G, Playford R, Ghosh P, Calam J. Campylobacter pylori and duodenal ulcers: the gastrin link. Lancet 1989 May 27; 1(8648):1167-8. Comment in: Lancet 1989 Jul 22; 2(8656):212-3; Lancet 1989 Aug 12;2(8659):389; Lancet 1989 Aug 12;2(8659):389-90; Lancet 1989 Aug 26;2(8661):499-500; Lancet 1989 Sep 2; 2(8662):562.

Levi S, Beardshall K, Swift I, Foulkes W, Playford R, Ghosh P, Calam J. Antral Helicobacter pylori, hypergastrinaemia, and duodenal ulcers: effect of eradicating the organism. BMJ 1989 Dec 16; 299(6714):1504-5.

Levi S, Dollery CT, Bloom SR, Calam J, Cox TM, Hodgson HJ, Losowsky MS, Pepys MB, Wright NA, Wrong OM. Campylobacter pylori, duodenal ulcer disease, and gastrin [clinical conference]. BMJ 1989 Oct 28;299(6707):1093-4.

Lind CD, Blaser MJ. Helicobacter pylori and duodenal ulceration. Hosp Pract (Off Ed) 1991 Feb 28; 26(2A):45-9, 52-3, 56 passim.

Loffeld RJ. Advances in etiology, diagnosis, and treatment of gastric disorders. Compr Ther 1991 Apr;17(4):7-14.

Loffeld RJ. Helicobacter pylori in gastroduodenal disease. Pharm Weekbl [Sci] 1990 Apr 27;12(2): 46-50.

Loffeld RJ, Arends JW. The role of Helicobacter pylori in non-ulcer dyspepsia and gastritis. Neth J Med 1993 Feb;42(2):73-9.

Loffeld RJ, Potters HV, Arends JW, Stobberingh E, Flendrig JA, van Spreeuwel JP. Campylobacter associated gastritis in patients with non-ulcer dyspepsia. J Clin Pathol 1988 Jan;41(1):85-8.

Maaroos HI, Kekki M, Villako K, Sipponen P, Tamm A, Sadeniemi L. The occurrence and extent of Helicobacter pylori colonization and antral and body gastritis profiles in an Estonian population sample. Scand J Gastroenterol 1990 Oct;25(10):1010-7.

Maddocks AC. Helicobacter pylori (formerly Campylobacter pyloridis/pylori) 1986-1989: a review. J Clin Pathol 1990 May;43(5):353-6.

Marks IN, Louw JA, Young GO. Acid secretion, 1932-92: advances, adaptations, and paradoxes. Scand J Gastroenterol Suppl 1992;193:7-13.

Marshall BJ. The pathogenesis of non-ulcer dyspepsia [letter]. Med J Aust 1985 Sep 30;143(7):319.

Marshall BJ. Virulence and pathogenicity of Helicobacter pylori. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):121-4.

McCarthy DM. Pathogenic mechanisms of gastroduodenal injury: nonsteroidal anti-inflammatory drugs. Curr Opin Gastroenterol 1991;7(6):876-80.

McColl KE, el-Nujumi AM, Chittajallu RS, Dahill SW, Dorrian CA, el-Omar E, Penman I, Fitzsimons EJ, Drain J, Graham H, et al. A study of the pathogenesis of Helicobacter pylori negative chronic duodenal ulceration. Gut 1993 Jun;34(6):762-8.

McColl KE, Fullarton GM, Chittajalu R, el Nujumi AM, MacDonald AM, Dahill SW, Hilditch TE. Plasma gastrin, daytime intragastric pH, and nocturnal acid output before and at 1 and 7 months after eradication of Helicobacter pylori in duodenal ulcer subjects. Scand J Gastroenterol 1991 Mar; 26(3):339-46.

McGovern TW, Talley NJ, Kephart GM, Carpenter HA, Gleich GJ. Eosinophil infiltration and degranulation in Helicobacter pylori-associated chronic gastritis. Dig Dis Sci 1991 Apr;36(4): 435-40.

McKinlay AW, Upadhyay R, Gemmell CG, Russell RI. Helicobacter pylori: bridging the credibility gap. Gut 1990 Aug;31(8):940-5.

Megraud F, Lamouliatte H. Helicobacter pylori and duodenal ulcer. Evidence suggesting causation. Dig Dis Sci 1992 May;37(5):769-72.

Meisner S, Siim C, Kjaergaard J. The role of infections in the pathogenesis of peptic ulcer disease. Acta Chir Scand Suppl 1988;547:35-8.

Mertz HR, Walsh JH. Peptic ulcer pathophysiology. Med Clin North Am 1991 Jul;75(4):799-814.

Michaletz PA, Graham DY. Gastritis. Bringing this enigma into sharper focus. Postgrad Med 1988 Feb 15;83(3):98-100, 103-6.

Misiewicz JJ. Future trends in the management of peptic ulcer disease. Scand J Gastroenterol Suppl 1988;146:175-84.

Misiewicz JJ. Helicobacter pylori: past, present, and future. Scand J Gastroenterol Suppl 1992;194:25-9.

Mohiuddin J, Rhodes EG, Rhodes JM. Nonsecretors and peptic ulceration. No link with Campylobacter pylori [letter]. Dig Dis Sci 1989 May;34(5):804.

Montbriand JR, Appelman HD, Cotner EK, Nostrant TT, Elta GH. Treatment of Campylobacter pylori does not alter gastric acid secretion. Am J Gastroenterol 1989 Dec;84(12):1513-6.

Mooney C, Keenan J, Munster D, Wilson I, Allardyce R, Bagshaw P, Chapman B, Chadwick V. Neutrophil activation by Helicobacter pylori. Gut 1991 Aug;32(8):853-7.

Moss S, Calam J. Helicobacter pylori and peptic ulcers: the present position. Gut 1992 Mar;33(3):289-92. Comment in: Gut 1992 Sep;33(9):1293.

Moss SF, Playford RJ, Ayesu K, Li SK, Calam J. pH-dependent secretion of gastrin in duodenal ulcer disease: effect of suppressing Helicobacter pylori. Digestion 1992;52(3-4):173-8.

Mossi S, Meyer-Wyss B, Renner EL, Merki HS, Gamboni G, Beglinger C. Influence of Helicobacter pylori, sex, and age on serum gastrin and pepsinogen concentrations in subjects without symptoms and patients with duodenal ulcers. Gut 1993 Jun;34(6):752-6.

Mulholland G, Ardill JE, Fillmore D, Chittajallu RS, Fullarton GM, McColl KE. Helicobacter pylori related hypergastrinaemia is the result of a selective increase in gastrin 17. Gut 1993 Jun;34(6):757-61.

Munoz DJ, Tasman-Jones C, Pybus J. Effect of Helicobacter pylori infection on colloidal bismuth subcitrate concentration in gastric mucus. Gut 1992 May;33(5):592-6.

Murakami M, Yoo JK, Teramura S, Yamamoto K, Saita H, Matuo K, Asada T, Kita T. Generation of ammonia and mucosal lesion formation following hydrolysis of urea by urease in the rat stomach. J Clin Gastroenterol 1990;12 Suppl 1:S104-9.

Nakanishi T, Shinomura Y, Kanayama S, Matsuzawa Y. Eradication of Helicobacter pylori normalizes serum gastrin concentration and antral gastrin cell number in a patient with primary gastrin cell hyperplasia. Am J Gastroenterol 1993 Mar;88(3): 440-2.

Nanivadekar SA. The aetiology of peptic ulcer--debugging an enigma and its impact on therapy [editorial]. J Assoc Physicians India 1990 Sep; 38 Suppl 1:683-8.

Nanivadekar SA, Sawant PD, Patel HD, Shroff CP, Popat UR, Bhatt PP. Association of peptic ulcer with Helicobacter pylori and the recurrence rate. A three year follow-up study. J Assoc Physicians India 1990 Sep;38 Suppl 1:703-6.

Nanivadekar SA, Sawant PD, Saraswathi K, Shroff CP, Bichile LS, Patel HD, Shroff DS. Association of Campylobacter pylori with gastritis, duodenal ulcer and gastric ulcer--a preliminary report of dyspeptic patients. Indian J Gastroenterol 1988 Jul;7(3):141-2.

Nasu M. [Helicobacter pylori infections]. Nippon Naika Gakkai Zasshi 1993 Mar 10;82(3):437-40. (Jpn).

Nedenskov-Sorensen P, Bjorneklett A, Fausa O, Bukholm G, Aase S, Jantzen E. Campylobacter pylori infection and its relation to chronic gastritis. An endoscopic, bacteriologic, and histomorphologic study. Scand J Gastroenterol 1988 Sep;23(7): 867-74.

Nensey YM, Schubert TT, Bologna SD, Ma CK. Helicobacter pylori-negative duodenal ulcer. Am J Med 1991 Jul;91(1):15-8.

Neumann JK, Rohrbach MA, Wilhoite S, Thomas E. Helicobacter pylori and pathogenesis of ulceration [letter]. Lancet 1993 Mar 13;341(8846):703.

Nord KS. Peptic ulcer disease in the pediatric population. Pediatr Clin North Am 1988 Feb; 35(1):117-40.

Offerhaus GJ, Rieu PN, Jansen JB, Joosten HJ, Lamers CB. Prospective comparative study of the influence of postoperative bile reflux on gastric mucosal histology and Campylobacter pylori infection. Gut 1989 Nov;30(11):1552-7.

Ormand JA, Talley NJ. Campylobacter pylori, mucus, and peptic ulceration. A dynamic interaction. J Clin Gastroenterol 1989 Oct;11(5):492-5.

Pai G, Thomas V, Hariharan M, Nair KV. Helicobacter pylori infection in dyspeptic patients [letter]. J Assoc Physicians India 1991 Aug;39(8):649-50.

Parsonnet J, Friedman GD, Vandersteen DP, Chang Y, Vogelman JH, Orentreich N, Sibley RK. Helicobacter pylori infection and the risk of gastric carcinoma. N Engl J Med 1991 Oct 17; 325(16): 1127-31. Comment in: N Engl J Med 1991 Oct 17; 325(16):1170-1.

Partipilo ML, Woster PS. The role of Helicobacter pylori in peptic ulcer disease. Pharmacotherapy 1992 Jul-Aug;13(4):330-9.

Perez-Perez GI, Olivares AZ, Cover TL, Blaser MJ. Characteristics of Helicobacter pylori variants selected for urease deficiency. Infect Immun 1992 Sep;60(9):3658-63.

Peterson WL. Helicobacter pylori and peptic ulcer disease. N Engl J Med 1991 Apr 11;324(15): 1043-8. Comment in: N Engl J Med 1991 Sep 5; 325(10):737-8.

Peterson WL, Lee E, Feldman M. Relationship between Campylobacter pylori and gastritis in healthy humans after administration of placebo or indomethacin. Gastroenterology 1988 Nov;95(5): 1185-97.

Pieramico O, Ditschuneit H, Malfertheiner P. Oro-caecal transit time in patients with non-ulcer dyspepsia: role of chronic gastritis and Helicobacter pylori infection. Eur J Gastroenterol Hepatol 1991;3(8):627-31.

Pounder RE, Fraser AG. Gastric acid secretion and intragastric acidity: measurement in health and disease. Baillieres Clin Gastroenterol 1993 Mar;7(1):55-80.

Preclik G, Abedin G, Stange EF, Baczako K, Ditschuneit H. [Endogenous prostaglandin synthesis and gastritis: lack of correlation with endoscopic findings, Helicobacter colonization and leukocytic infiltration of the mucosa]. Z Gastroenterol 1992 Feb;30(2):130-3. (Ger).

Prichard PJ, Yeomans ND. Helicobacter pylori and duodenal ulcer [editorial]. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):177-8.

Queiroz DM, Mendes EN, Rocha GA, Barbosa AJ, Carvalho AS, Cunha-Melo JR. Histamine concentration of gastric mucosa in Helicobacter pylori positive and negative children. Gut 1991 May;32(5):464-6.

Queiroz DM, Rocha GA, Mendes EN, Carvalho AS, Barbosa AJ, Oliveira CA, Lima GF Jr. Differences in distribution and severity of Helicobacter pylori gastritis in children and adults with duodenal ulcer disease. J Pediatr Gastroenterol Nutr 1991 Feb; 12(2):178-81.

Rabeneck L, Ransohoff DF. Is Helicobacter pylori a cause of duodenal ulcer? A methodologic critique of current evidence. Am J Med 1991 Dec;91(6): 566-72. Comment in: Am J Med 1991 Dec;91(6): 563-5.

Rademaker JW, Hunt RH. Helicobacter pylori and gastric acid secretion: the ulcer link? Scand J Gastroenterol Suppl 1991;187:71-7.

Rangachari PK. Helicobacter and hypergastrinemia: the Quisling option. Scand J Gastroenterol Suppl 1991; 187:85-90.

Rathbone BJ, Wyatt JI, Heatley RV. Possible pathogenetic pathways of Campylobacter pylori in gastro-duodenal disease. Scand J Gastroenterol Suppl 1988;142:40-3.

Rautelin H, Kosunen TU. Helicobacter pylori and associated gastroduodenal diseases. APMIS 1991 Aug;99(8):677-95.

Robles-Campos R, Lujan-Mompean JA, Parrilla-Paricio P, Bermejo-Lopez J, Liron-Ruiz R, Torralba-Martinez JA, Morales-Cuenca G, Molina-Martinzez JA. Role of Helicobacter pylori infection and duodenogastric reflux in the pathogenesis of alkaline reflux gastritis after gastric operations. Surg Gynecol Obstet 1993 Jun;176(6):594-8.

The role of acid inhibition in the management of Helicobacter pylori infection: Discussion II. Scand J Gastroenterol Suppl 1993;196:38-9.

The role of acid inhibition in the management of Helicobacter pylori infection: Panel discussion. Scand J Gastroenterol Suppl 1993;196:40-2.

Rooney PJ, Hunt RH. The risk of upper gastrointestinal haemorrhage during steroidal and non-steroidal anti-inflammatory therapy. Baillieres Clin Rheumatol 1991 Aug;4(2):207-17.

Rosch W. [Physiologic and pathologic age related changes in the stomach]. Fortschr Med 1990 Nov 30;108(34):643-6. (Ger).

Rosen SD, Rogers AI. Clinical recognition and evaluation of peptic ulcer disease. Postgrad Med 1990 Oct;88(5):42-7,51,55.

Ross JS, Bui HX, del Rosario A, Sonbati H, George M, Lee CY. Helicobacter pylori. Its role in the pathogenesis of peptic ulcer disease in a new animal model. Am J Pathol 1992 Sep;141(3):721-7.

Rune S. Helicobacter pylori, peptic ulcer disease and inhibition of gastric acid secretion. Digestion 1992;51 Suppl 1:11-6.

Saeed ZA, Evans DJ Jr, Evans DG, Cornelius MJ, Maton PN, Jensen RT, Graham DY. Helicobacter pylori and Zollinger-Ellison syndrome. Dig Dis Sci 1991 Jan;36(1):15-8.

Safe AF. Factors which predispose elderly patients to develop peptic ulcer disease. West Engl Med J 1992 Aug;107(2):47-8.

Saita H, Murakami M, Teramura S, Dekigai H, Kusaka S, Asagoe K, Kita T. Helicobacter pylori has an ulcerogenic action in the ischemic stomach of rats. J Clin Gastroenterol 1992;14 Suppl 1:S122-6.

Sarosiek J, Slomiany A, Slomiany BL. Evidence for weakening of gastric mucus integrity by Campylobacter pylori. Scand J Gastroenterol 1988 Jun;23(5):585-90.

Satoh K, Kimura K, Yoshida Y, Kasano T, Kihira K, Taniguchi Y. Relationship between Helicobacter pylori colonization and acute inflammation of the duodenal mucosa. Am J Gastroenterol 1993 Mar; 88(3):360-3.

Schaub N, Wegmann W. [Chronic gastritis]. Schweiz Med Wochenschr 1990;120(38):1369-84. (Ger).

Schubert TT, Bologna SD, Nensey Y, Schubert AB, Mascha EJ, Ma CK. Ulcer risk factors: interactions between Helicobacter pylori infection, nonsteroidal use, and age. Am J Med 1993 Apr;94(4):413-8.

Shallcross TM, Wyatt JI, Rathbone BJ, Heatley RV. Non steroidal anti inflammatory drugs, hiatus hernia, and Helicobacter pylori, in patients with oesophageal ulceration. Br J Rheumatol 1990 Aug;29(4):288-90.

Shorrock CJ. Non-steroidal anti-inflammatory drug-induced gastroduodenal damage: natural history and adaptation. Eur J Gastroenterol Hepatol 1993;5(6): 408-11.

Sidebotham RL, Baron JH. Hypothesis: Helicobacter pylori, urease, mucus, and gastric ulcer. Lancet 1990 Jan 27;335(8683):193-5. Comment in: Lancet 1990 Mar 24;335(8691):728-9.

Simon LS. Nonsteroidal anti-inflammatory drug toxicity. Curr Opin Rheumatol 1993 May;5(3): 265-75.

Sipponen P. Helicobacter pylori and chronic gastritis: an increased risk of peptic ulcer? A review. Scand J Gastroenterol Suppl 1991;186:6-10.

Sipponen P. Natural history of gastritis and its relationship to peptic ulcer disease. Digestion 1992;51 Suppl 1:70-5.

Sipponen P. Risk of gastroduodenal ulcer in gastritis. Mater Med Pol 1990 Apr-Jun;22(2):105-7.

Sipponen P, Hyvarinen H. Role of Helicobacter pylori in the pathogenesis of gastritis, peptic ulcer and gastric cancer. Scand J Gastroenterol Suppl 1993; 196:3-6.

Sirigu F, Simonetta Capeccioni P, Dessi A, Usai P. Morphological study of the gastric antral mucosa colonized by campylobacter pylori. Ital J Gastroenterol 1990 Feb;22(1):22-3.

Slomiany BL, Murty VL, Piotrowski J, Grabska M, Slomiany A. Glycosulfatase activity of H. pylori toward human gastric mucin: effect of sucralfate. Am J Gastroenterol 1992 Sep;87(9):1132-7.

Slomiany BL, Piotrowski J, Slomiany A. Effect of sucralfate on the degradation of human gastric mucus by Helicobacter pylori protease and lipases. Am J Gastroenterol 1992 May;87(5):595-9.

Slomiany BL, Slomiany A. Mechanism of Helicobacter pylori pathogenesis: focus on mucus. J Clin Gastroenterol 1992;14 Suppl 1:S114-21.

Slomiany BL, Slomiany A. Role of mucus in gastric mucosal protection. J Physiol Pharmacol 1991 Jun;42(2):147-61.

Smith AC. Duodenal ulcer disease: what role does Campylobacter pylori play? Scand J Gastroenterol Suppl 1989;160:14-8.

Smith JT, Pounder RE, Nwokolo CU, Lanzon-Miller S, Evans DG, Graham DY, Evans DJ Jr. Inappropriate hypergastrinaemia in asymptomatic healthy subjects infected with Helicobacter pylori. Gut 1990 May;31(5):522-5.

Smith T, Vaira D, Ainley C, Holton J. Campylobacter pylori, gastrin, and duodenal ulcer [letter]. Lancet 1989 Aug 12;2(8659):389. Comment on: Lancet 1989 May 27;1(8648):1167-8.

Smoot DT, Mobley HL, Chippendale GR, Lewison JF, Resau JH. Helicobacter pylori urease activity is toxic to human gastric epithelial cells. Infect Immun 1990 Jun;58(6):1992-4.

Smoot DT, Scott VF. The role of Helicobacter pylori in the pathogenesis of acid-peptic disease. J Assoc Acad Minor Physicians 1992;3(2):46-9.

Sobala GM, King RF, Axon AT, Dixon MF. Reflux gastritis in the intact stomach. J Clin Pathol 1990 Apr;43(4):303-6.

Sobala GM, Pignatelli B, Schorah CJ, Bartsch H, Sanderson M, Dixon MF, Shires S, King RF, Axon AT. Levels of nitrite, nitrate, N-nitroso compounds, ascorbic acid and total bile acids in gastric juice of patients with and without precancerous conditions of the stomach. Carcinogenesis 1991 Feb;12(2):193-8.

Sobala GM, Schorah CJ, Pignatelli B, Crabtree JE, Martin IG, Scott N, Quirke P. High gastric juice ascorbic acid concentrations in members of a gastric cancer family. Carcinogenesis 1993 Feb;14(2): 291-2.

Soll AH. Pathogenesis of peptic ulcer and implications for therapy. N Engl J Med 1990 Mar 29;322(13): 909-16. Comment in: N Engl J Med 1990 Oct 4; 323(14):998-9.

Soll AH. Peptic ulcer diseases. Perspectives on pathophysiology and therapy. J Clin Gastroenterol 1989;11 Suppl 1:S1-5.

Sonnenberg A, Wasserman IH, Jacobsen SJ. Monthly variation of hospital admission and mortality of peptic ulcer disease: a reappraisal of ulcer periodicity. Gastroenterology 1992 Oct;103(4): 1192-8.

Steininger H. [Chronic gastritis--does it need treatment and is it curable?]. Fortschr Med 1992 Oct 10; 110(28):515-8. (Ger).

Szabo S. Gastroduodenal mucosal injury--acute and chronic: pathways, mediators, and mechanisms. J Clin Gastroenterol 1991;13 Suppl 1:S1-8.

Taha AS, Angerson W, Nakshabendi I, Beekman H, Morran C, Sturrock RD, Russell RI. Gastric and duodenal mucosal blood flow in patients receiving non-steroidal anti-inflammatory drugs--influence of age, smoking, ulceration and Helicobacter pylori. Aliment Pharmacol Ther 1993 Feb;7(1):41-5.

Taha AS, Nakshabendi I, Lee FD, Sturrock RD, Russell RI. Chemical gastritis and Helicobacter pylori related gastritis in patients receiving non-steroidal anti-inflammatory drugs: comparison and correlation with peptic ulceration. J Clin Pathol 1992 Feb;45(2):135-9.

Taha AS, Sturrock RD, Russell RI. Helicobacter pylori and peptic ulcers in rheumatoid arthritis patients receiving gold, sulfasalazine, and nonsteroidal anti-inflammatory drugs. Am J Gastroenterol 1992 Dec;87(12):1732-5.

Takayasu H, Harasawa S, Miwa T, Yamada Y. [Investigation of gastric function and prevalence of Helicobacter pylori in non-ulcer dyspepsia]. Nippon Shokakibyo Gakkai Zasshi 1993 Apr;90(4):743-54. (Jpn).

Takemoto T, Inamoto Y. [Etiology and physiopathology of peptic ulcers]. Nippon Naika Gakkai Zasshi 1991 Jan 10;80(1):9-17. (Jpn).

Talley NJ. Nonulcer dyspepsia: current approaches to diagnosis and management. Am Fam Physician 1993 May 1;47(6):1407-16.

Talley NJ, Cameron AJ, Shorter RG, Zinsmeister AR, Phillips SF. Campylobacter pylori and Barrett's esophagus. Mayo Clin Proc 1988 Dec;63(12): 1176-80.

Talley NJ, Ellard K, Jones M, Tennant C, Piper DW. Suppression of emotions in essential dyspepsia and chronic duodenal ulcer. A case-control study. Scand J Gastroenterol 1988 Apr;23(3):337-40.

Talley NJ, Ormand JE, Frie CA, Zinsmeister AR. Stability of pH gradients in vivo across the stomach in Helicobacter pylori gastritis, dyspepsia, and health. Am J Gastroenterol 1992 May;87(5):590-4.

Talley NJ, Phillips SF. Non-ulcer dyspepsia: potential causes and pathophysiology. Ann Intern Med 1988 Jun;108(6):865-79.

Thomsen L, Tasman-Jones C, Morris A. Na+/H+ ion-exchange property of postmortem human gastric mucus. The effects of Campylobacter pylori infection and sucralfate. Scand J Gastroenterol 1989 Sep;24(7):781-6.

Tiomny E, Arber N, Moshkowitz M, Peled Y, Gilat T. Halitosis and Helicobacter pylori. A possible link? J Clin Gastroenterol 1992 Oct;15(3):236-7.

Tsujii M, Kawano S, Tsuji S, Fusamoto H, Kamada T, Sato N. Mechanism of gastric mucosal damage induced by ammonia. Gastroenterology 1992 Jun; 102(6):1881-8.

Tsuneoka H, Mizuno H. [Semiquantitative culture of Campylobacter pylori in gastroduodenal disorder]. Kansenshogaku Zasshi 1990 Feb;64(2):169-73. (Jpn).

Tytgat GN. The clinical significance of Helicobacter pylori infection in chronic dyspepsia and peptic ulcer disease [editorial]. Ann Med 1991 Oct;23(4): 355-6.

Tytgat GN, Noach LA, Rauws EA. Is gastroduodenitis a cause of chronic dyspepsia? Scand J Gastroenterol Suppl 1991;182:33-9.

Uibo R, Salupere V, Krohn K. Autoimmune reactions to gastric mucosa in chronic gastritis: A review. Scand J Gastroenterol Suppl 1991;186:11-5.

Vaira D, Holton J, Dowsett J, Oderda G, Barbara L. Helicobacter pylori: its role in gastric disease. Dig Dis 1990;8(6):322-36.

Vaira D, Holton J, Miglioli M, Barbara L. Pathogenic mechanisms of acid related diseases: Helicobacter and other spiral organisms. Curr Opin Gastroenterol 1991;7(6):881-7.

Varis K. Gastritis. A misused term in clinical gastroenterology. Scand J Gastroenterol Suppl 1988;155:53-8.

Veldhuyzen van Zanten SJ, Tytgat KM, Pollak PT, Goldie J, Goodacre RL, Riddell RH, Hunt RH. Can severity of symptoms be used as an outcome measure in trials of non-ulcer dyspepsia and Helicobacter pylori associated gastritis? J Clin Epidemiol 1993 Mar;46(3):273-9.

Villako K, Maards H, Tammur R, Keevallik R, Peetsalu M, Sipponen P, Kekki M, Siurala M. Helicobacter (Campylobacter) pylori infestation and the development and progression of chronic gastritis: results of long-term follow-up examinations of a random sample. Endoscopy 1990 May;22(3):114-7.

Wagner S, Gladziwa U, Haruma K, Varrentrapp M, Gebel M. Effect of Helicobacter pylori infection on 24 hour intragastric acidity in patients with gastritis and duodenal ulcer. Gut 1992 Aug;33(8):1024-8.

Wagner S, Meran JG, Manns M. [Helicobacter pylori. New apsects in the pathogenesis of peptic ulcer disease]. Wien Med Wochenschr 1992;142(8-9): 162-6. (Ger).

Wagner S, Schuler A, Gebel M, Freise J, Schmidt FW. Campylobacter pylori and acid secretion [letter]. Lancet 1989 Sep 2;2(8662):562. Comment on: Lancet 1989 May 27;1(8648):1167-8.

Walker SJ, Murray AE. A review of Campylobacter pylori in upper gastrointestinal disease. Br J Hosp Med 1988 Jul;40(1):27, 30-6.

Wang KK. The role of Helicobacter pylori in gastroduodenal disease. Compr Ther 1991 Sep;17(9):35-8.

Wegener M, Borsch G, Schaffstein J, Schulz-Flake C, Mai U, Leverkus F. Are dyspeptic symptoms in patients with Campylobacter pylori-associated type B gastritis linked to delayed gastric emptying? Am J Gastroenterol 1988 Jul;83(7):737-40.

Wormsley KG. Aetiology of duodenal ulcer. Recenti Prog Med 1990 Jun;81(6):365-73.

Wormsley KG. Aetiology of ulcers. Baillieres Clin Gastroenterol 1988 Jul;2(3):555-71.

Wormsley KG. Campylobacter pylori and ulcer disease--a causal connection? Scand J Gastroenterol Suppl 1989;160:53-8.

Wyatt JI. The role of Campylobacter pylori in the pathogenesis of peptic ulcer disease. Scand J Gastroenterol Suppl 1989;157:7-11; discussion 21-2.

## THERAPY

Adamek RJ, Wegener M, Birkholz S, Opferkuch W, Ruhl GH, Ricken D. [Modified combined omeprazole/amoxicillin therapy for Helicobacter pylori eradication: a pilot study]. Leber Magen Darm 1992 Nov;22(6):222-4. (Ger).

Archimandritis A, Tjivras M, Kapsalas D, Kyriaki D, Alevizou V, Davaris P, Fertakis A. Preliminary observations in the fasting serum gastrin in patients with duodenal ulcer; further evidence of the clearing effect of omeprazole on H pylori? Ital J Gastroenterol 1992 Sep;24(7):378-9.

Ateshkadi A, Lam NP, Johnson CA. Helicobacter pylori and peptic ulcer disease. Clin Pharm 1993 Jan;12(1):34-48.

Axon AT. Campylobacter pylori--therapy review. Scand J Gastroenterol Suppl 1989;160:35-8.

Axon AT. Helicobacter pylori therapy: effect on peptic ulcer disease. J Gastroenterol Hepatol 1991 Mar-Apr;6(2):131-7.

Balzano A, Mosca S, Amitrano L, Di Blasi A, Piccirillo MM, Gigliotti T. Gastric antral erosions and Helicobacter pylori infection in cirrhotic patients: a pilot controlled study of oral bismuth vs ranitidine therapy. Ital J Gastroenterol 1991 Mar-Apr;23(3):132-5.

Barbara L, Biasco G, Capurso L, Dobrilla G, Lalli A, Paganelli GM, Pallone F, Torsoli A. Effects of sucralfate and sulglycotide treatment on active gastritis and Helicobacter pylori colonization of the gastric mucosa in non-ulcer dyspepsia patients. Am J Gastroenterol 1990 Sep;85(9):1109-13.

Bauerfeind P, Koelz HR, Blum AL. Ulcer treatment. Regimens of duration of inhibition acid secretion: How long to dose. Scand J Gastroenterol Suppl 1988;153:23-34.

Bayerdorffer E, Mannes GA, Sommer A, Hochter W, Weingart J, Hatz R, Lehn N, Ruckdeschel G, Dirschedl P, Stolte M. Long-term follow-up after eradication of Helicobacter pylori with a combination of omeprazole and amoxycillin. Scand J Gastroenterol Suppl 1993;196:19-25.

Bayerdorffer E, Ottenjann R. The role of antibiotics in Campylobacter pylori associated peptic ulcer disease. Scand J Gastroenterol Suppl 1988;142: 93-100.

Bell GD, Powell K, Burridge SM, Harrison G, Weil J, Gant PW, Jones PH, Trowell JE. Does a previous course of tripotassium dicitrato bismuthate affect the subsequent chances of successful Helicobacter pylori eradication? Aliment Pharmacol Ther 1992 Jun;6(3):327-33.

Bell GD, Powell KU. Eradication of Helicobacter pylori and its effect in peptic ulcer disease. Scand J Gastroenterol Suppl 1993;196:7-11.

Bell GD, Powell KU, Burridge SM, Spencer G, Bolton G, Purser K, Brooks S, Prosser S, Harrison G, Gant PW, et al. Short report: omeprazole plus antibiotic combinations for the eradication of metronidazole-resistant Helicobacter pylori. Aliment Pharmacol Ther 1992 Dec;6(6):751-8.

Bertschinger P, Brunner J, Flury R, Lammer F, Jost R, Hacki WH. [Comparison of the efficacy of omeprazole/bismuth subcitrate or triple therapy in Helicobacter pylori gastritis. A prospective controlled study]. Schweiz Med Wochenschr 1992 Sep 26;122(39):1446-51. (Ger).

Blanco M, Pajares JM, Jimenez ML, Lopez-Brea M. Effect of acid inhibition on Campylobacter pylori. Scand J Gastroenterol Suppl 1988;142:107-9.

Bodemar G. Does the choice of acute treatment influence future ulcer relapse? Scand J Gastroenterol Suppl 1988;155:141-51.

Borody TJ, Andrews P, Jankiewicz E, Ferch N, Carroll M. Apparent reversal of early gastric mucosal atrophy after triple therapy for Helicobacter pylori. Am J Gastroenterol 1993 Aug;88(8):1266-8.

Borsch G, Mai U, Muller KM. Monotherapy or polychemotherapy in the treatment of Campylobacter pylori-related gastroduodenal disease. Scand J Gastroenterol Suppl 1988;142: 101-6.

Cariani G, Vandelli A, Santini D, Caselli A, Fontana G. Omeprazole in short-term treatment of Helicobacter pylori positive duodenal ulcer [letter]. Ital J Gastroenterol 1991 Dec;23(9):597-8. Comment on: Ital J Gastroenterol 1991 Jan;23(1): 9-11.

Chiverton SG, Hunt RH. Initial therapy and relapse of duodenal ulcer: possible acid secretory mechanisms. Gastroenterology 1989 Feb;96(2 Pt 2 Suppl):632-9.

Chiverton SG, Veuldhuyzen van Zanten SJ, Hunt RH. Campylobacter pylori and trials of ulcer recurrence [letter]. J Clin Gastroenterol 1989 Apr;11(2):237.

Coelho LG, Passos MC, Chausson Y, Castro L de P. Five day bismuth-free triple therapy for the eradication of Helicobacter pylori and reduction of duodenal ulcer relapse. Am J Gastroenterol 1991 Aug;86(8):971-5.

D'Adda T, Bordi C, Lazzaroni M, Bianchi Porro G. Long-term omeprazole monotherapy is ineffective against Helicobacter pylori infection [letter]. Am J Gastroenterol 1992 May;87(5):681.

Delle Fave G, Annibale B, Puoti M, Giordano E, Corleto V, de Magistris L, Torsoli A. Medical treatment of antral gastrin cell hyperfunction: role of nonantisecretory therapy. Digestion 1990;46(2): 65-71.

Dobrilla G, Amplatz S, Comberlato M. An update on the short term medical treatment of duodenal ulcer. Curr Ther Res Clin Exp 1989;45(5):873-901.

Dobrilla G, Piazzi L, Amplatz S, Benvenuti S, Di Fede F. Helicobacter pylori and gastric ulcer therapy: reflections and uncertainties. Ital J Gastroenterol 1992 Feb;24(2):79-84.

Domschke W, Lam SK, Pounder RE, Andersen D. H2-blocker-resistant duodenal ulceration. Gastroenterol Int 1989;2(2):85-91.

Drumm B, Sherman P, Chiasson D, Karmali M, Cutz E. Treatment of Campylobacter pylori-associated antral gastritis in children with bismuth subsalicylate and ampicillin. J Pediatr 1988 Nov; 113(5):908-12. Comment in: J Pediatr 1989 Nov; 115(5 Pt 1):833-4.

Ebell MH. Peptic ulcer disease. Am Fam Physician 1992 Jul;46(1):217-27.

Ferrari AP, Geocze S, Lanzoni VP, Toledo MR, Trabulsi LR, Vilela MP. Use of ampicillin plus ranitidine for Helicobacter pylori gastritis. Braz J Med Biol Res 1991;24(6):567-72.

Fraser AG, Lam WM, Luk YW, Sercombe J, Sawyerr AM, Hudson M, Samloff IM, Pounder RE. Effect of ranitidine bismuth citrate on postprandial plasma gastrin and pepsinogens. Gut 1993 Mar;34(3): 338-42.

Gad A, Dobrilla G. Campylobacter pylori and non-ulcer dyspepsia. 1. The final results of a double-blind multicentre trial for treatment with pirenzepine in Italy. Scand J Gastroenterol Suppl 1989;167:39-43.

Gad A, Hradsky M, Furugard K, Malmodin B. Campylobacter pylori and gastroduodenal ulcer disease. A prospective study in a Swedish population. Scand J Gastroenterol Suppl 1989; 167:81-5.

Gad A, Hradsky M, Furugard K, Malmodin B, Nyberg O. Campylobacter pylori and non-ulcer dyspepsia. 2. A prospective study in a Swedish population. Scand J Gastroenterol Suppl 1989;167:44-8.

George LL, Borody TJ, Andrews P, Devine M, Moore-Jones D, Walton M, Brandl S. Cure of duodenal ulcer after eradication of Helicobacter pylori. Med J Aust 1990 Aug 6;153(3):145-9.

Gilbert G, Chan CH, Thomas E. Peptic ulcer disease. How to treat it now. Postgrad Med 1991 Mar; 89(4):91-3, 96, 98.

Gill HH, Desai HG, Mehta PR, Ranganathan S, Kalro RH, Murti PK, Prabhu SR. Mono and dual therapy for Helicobacter pylori associated gastritis. J Assoc Physicians India 1991 Oct;39(10):743-5.

Glupczynski Y, Burette A. Drug therapy for Helicobacter pylori infection: problems and pitfalls. Am J Gastroenterol 1990 Dec;85(12):1545-51.

Glupczynski Y, Burette A, Nyst JF, De Prez C, De Koster E, Deltenre M. Campylobacter pylori-associated gastritis: attempts to eradicate the bacteria by various antibiotics and anti-ulcer regimens. Acta Gastroenterol Belg 1988 Jul-Oct;51(4-5):329-37.

Goggin PM, Marrero JM, Spychal RT, Jackson PA, Corbishley CM, Northfield TC. Surface hydrophobicity of gastric mucosa in Helicobacter pylori infection: effect of clearance and eradication. Gastroenterology 1992 Nov;103(5):1486-90.

Goh KL, Parasakthi N, Peh SC, Wong NW, Lo YL, Puthucheary SD. Helicobacter pylori infection and non-ulcer dyspepsia: the effect of treatment with colloidal bismuth subcitrate. Scand J Gastroenterol 1991 Nov;26(11):1123-31.

Goodwin CS, Marshall BJ, Blincow ED, Wilson DH, Blackbourn S, Phillips M. Prevention of nitroimidazole resistance in Campylobacter pylori by coadministration of colloidal bismuth subcitrate: clinical and in vitro studies. J Clin Pathol 1988 Feb;41(2):207-10.

Gorbach SL. Bismuth therapy in gastrointestinal diseases. Gastroenterology 1990 Sep;99(3):863-75.

Graham DY, Klein PD, Opekun AR, Smith KE, Polasani RR, Evans DJ Jr, Evans DG, Alpert LC, Michaletz PA, Yoshimura HH, et al. In vivo susceptibility of Campylobacter pylori. Am J Gastroenterol 1989 Mar;84(3):233-8.

Graham DY, Lew GM, Evans DG, Evans DJ Jr, Klein PD. Effect of triple therapy (antibiotics plus bismuth) on duodenal ulcer healing. A randomized controlled trial. Ann Intern Med 1991 Aug 15; 115(4):266-9.

Graham DY, Lew GM, Klein PD, Evans DG, Evans DJ Jr, Saeed ZA, Malaty HM. Effect of treatment of Helicobacter pylori infection on the long-term recurrence of gastric or duodenal ulcer. A randomized, controlled study. Ann Intern Med 1992 May 1;116(9):705-8. Comment in: Ann Intern Med 1992 May 1;116(9):770-1.

Graham DY, Lew GM, Malaty HM, Evans DG, Evans DJ Jr, Klein PD, Alpert LC, Genta RM. Factors influencing the eradication of Helicobacter pylori with triple therapy. Gastroenterology 1992 Feb; 102(2):493-6.

Hall DW. Review of the modes of action of colloidal bismuth subcitrate. Scand J Gastroenterol Suppl 1989;157:3-6; discussion 21-2.

Hentschel E, Brandstatter G, Dragosics B, Hirschl AM, Nemec H, Schutze K, Taufer M, Wurzer H. Effect of ranitidine and amoxicillin plus metronidazole on the eradication of Helicobacter pylori and the recurrence of duodenal ulcer. N Engl J Med 1993 Feb 4;328(5):308-12. Comment in: N Engl J Med 1993 Feb 4;328(5):349-50.

Hirschl AM, Brandstatter G, Dragosics B, Hentschel E, Kundi M, Rotter ML, Schutze K, Taufer M. Kinetics of specific IgG antibodies for monitoring the effect of anti-Helicobacter pylori chemotherapy. J Infect Dis 1993 Sep;168(3):763-6.

Hirschl AM, Hentschel E, Schutze K, Nemec H, Potzi R, Gangl A, Weiss W, Pletschette M, Stanek G, Rotter ML. The efficacy of antimicrobial treatment in Campylobacter pylori-associated gastritis and duodenal ulcer. Scand J Gastroenterol Suppl 1988; 142:76-81.

Hixson LJ, Kelley CL, Jones WN, Tuohy CD. Current trends in the pharmacotherapy for peptic ulcer disease. Arch Intern Med 1992 Apr;152(4):726-32.

Ho J, Hui WM, Ng I, Lam SK. Natural history of Campylobacter pylori in duodenal ulceration treated with an H2-antagonist. Aliment Pharmacol Ther 1989 Jun;3(3):315-20.

Holcombe C, Thom C, Kaluba J, Lucas SB. Helicobacter pylori clearance in the treatment of non-ulcer dyspepsia. Aliment Pharmacol Ther 1992 Feb;6(1):119-23.

Holtermuller KH, Liszkay M, Bernard I, Haase W. [Therapy of stomach ulcer--a comparison between the low dosage antacid hydrotalcite and ranitidine--results of a randomized multicenter double-blind study. Talcivent Study Group]. Z Gastroenterol 1992 Oct;30(10):717-21. (Ger).

Hosking SW, Ling TK, Yung MY, Cheng A, Chung SC, Leung JW, Li AK. Randomised controlled trial of short term treatment to eradicate Helicobacter pylori in patients with duodenal ulcer. BMJ 1992 Aug 29;305(6852):502-4. Comment in: BMJ 1992 Oct 31;305(6861):1094-5.

Hui WM, Lam SK, Ho J, Lai CL, Lok AS, Ng MM, Lau WY, Branicki FJ. Effect of omeprazole on duodenal ulcer-associated antral gastritis and Helicobacter pylori. Dig Dis Sci 1991 May;36(5): 577-82.

Hui WM, Lam SK, Ho J, Ng I, Lau WY, Branicki FJ, Lai CL, Lok AS, Ng MM, Fok J, et al. Effect of sucralfate and cimetidine on duodenal ulcer-associated antral gastritis and Campylobacter pylori. Am J Med 1989 Jun 9;86(6A):60-5.

Humphreys H, Bourke S, Dooley C, McKenna D, Power B, Keane CT, Sweeney EC, O'Morain C. Effect of treatment on Campylobacter pylori in peptic disease: a randomised prospective trial. Gut 1988 Mar;29(3):279-83.

Hunt RH. Hp and pH: implications for the eradication of Helicobacter pylori. Scand J Gastroenterol Suppl 1993;196:12-6.

Israel DM, Hassall E. Treatment and long-term follow-up of Helicobacter pylori-associated duodenal ulcer disease in children. J Pediatr 1993 Jul;123(1):53-8.

Iwahi T, Satoh H, Nakao M, Iwasaki T, Yamazaki T, Kubo K, Tamura T, Imada A. Lansoprazole, a novel benzimidazole proton pump inhibitor, and its related compounds have selective activity against Helicobacter pylori. Antimicrob Agents Chemother 1991 Mar;35(3):490-6.

Jaskiewicz K, Louw JA, Marks IN. Local cellular and immune response by antral mucosa in patients undergoing treatment for eradication of Helicobacter pylori. Dig Dis Sci 1993 May;38(5):937-43.

Jensen SL, Funch Jensen P. Role of sucralfate in peptic disease. Dig Dis 1992;10(3):153-61.

Kang JY, Guan R, Tay HH, Yap I, Wee A, Math MV, Labrooy SJ. Low-dose cimetidine in the acute treatment of duodenal ulcer. Comparison of a single nocturnal dose regimen with a twice daily regimen. J Gastroenterol Hepatol 1990 Nov-Dec;5(6):669-74.

Kang JY, Tay HH, Wee A, Guan R, Math MV, Yap I. Effect of colloidal bismuth subcitrate on symptoms and gastric histology in non-ulcer dyspepsia. A double blind placebo controlled study. Gut 1990; 31(4):476-80.

Katsura Y, Inoue Y, Tomishi T, Itoh H, Ishikawa H, Takasugi H. Studies on antiulcer drugs. VI. 4-Furyl-2-guanidinothiazoles and related compounds as potent histamine H2-receptor antagonists. Chem Pharm Bull (Tokyo) 1992 Sep;40(9):2432-41.

Kawashima K, Kondoh K, Ochi Y, Oka M. [Effect of AS-2646, a novel antiulcer agent on gastric mucosal defensive factors in rats]. Nippon Yakurigaku Zasshi 1991 Aug;98(2):73-82. (Jpn).

Kraus JW, Morello PJ. Clinical experience with Campylobacter pylori in western Kentucky. J Ky Med Assoc 1989 Sep;87(9):448-50.

Kristiansen JE, Justesen T, Hvidberg EF, Andersen LP. Trimipramine and other antipsychotics inhibit Campylobacter pylori in vitro. Pharmacol Toxicol 1989 Apr;64(4):386-8.

Labenz J, Gyenes E, Peitz U, Borsch G. [Ciprofloxacin-omeprazole combination therapy for eradication of Helicobacter pylori]. Z Gastroenterol 1991 Apr;29(4):143-5. (Ger).

Labenz J, Gyenes E, Ruhl GH, Borsch G. Omeprazole plus amoxicillin: efficacy of various treatment regimens to eradicate Helicobacter pylori. Am J Gastroenterol 1993 Apr;88(4):491-5. Comment in: Am J Gastroenterol 1993 Apr;88(4):481-3.

Labenz J, Gyenes E, Ruhl GH, Borsch G. Two weeks treatment with amoxicillin/omeprazole for eradication of Helicobacter pylori. Z Gastroenterol 1992 Nov;30(11):776-8.

Lai KH, Chang FY, Tsay SH, Lu LC, Cheng JT, Jeng SS, Wu TC, Ng WW, Jeng JS, Lee SD, et al. Medical treatment of duodenal ulcer: acid inhibition or Helicobacter pylori eradication? J Gastroenterol Hepatol 1991 Mar-Apr;6(2):141-4.

Lambert JR. Clinical indications and efficacy of colloidal bismuth subcitrate. Scand J Gastroenterol Suppl 1991;185:13-21.

Lambert JR. Pharmacology of bismuth-containing compounds. Rev Infect Dis 1991 Jul-Aug; 13 Suppl 8:S691-5.

Lamberts R, Creutzfeldt W, Struber HG, Brunner G, Solcia E. Long-term omeprazole therapy in peptic ulcer disease: gastrin, endocrine cell growth, and gastritis. Gastroenterology 1993 May;104(5): 1356-70. Comment in: Gastroenterology 1993 May; 104(5):1554-7.

Lee SP. The mode of action of colloidal bismuth subcitrate. Scand J Gastroenterol Suppl 1991; 185:1-6.

Loffeld RJ, Potters HV, Stobberingh E, Flendrig JA, van Spreeuwel JP, Arends JW. Campylobacter associated gastritis in patients with non-ulcer dyspepsia: a double blind placebo controlled trial with colloidal bismuth subcitrate. Gut 1989 Sep; 30(9):1206-12. Comment in: Gut 1990 Apr;31(4): 481-2.

Logan RP, Gummett PA, Misiewicz JJ, Karim QN, Walker MM, Baron JH. One week eradication regimen for Helicobacter pylori. Lancet 1991 Nov 16;338(8777):1249-52. Comment in: Lancet 1992 Jan 4;339(8784):54; Lancet 1992 Jan 4; 339(8784):54-5; Lancet 1992 Jan 4;339(8784):55.

Logan RP, Gummett PA, Misiewicz JJ, Karim QN, Walker MM, Baron JH. Two-week eradication regimen for metronidazole-resistant Helicobacter pylori. Aliment Pharmacol Ther 1993 Apr;7(2): 149-53.

Lomas RW, Smith JL. Medical treatment of peptic ulcer disease. Curr Opin Gastroenterol 1991; 7(6):888-93.

Louw JA, Zak J, Lucke W, Le Roux E, Jaskiewicz K, Winter T, Lastovica A, Marks IN. Triple therapy with sucralfate is as effective as triple therapy containing bismuth in eradicating Helicobacter pylori and reducing duodenal ulcer relapse rates. Scand J Gastroenterol Suppl 1992;191:28-31.

Madsen JE, Vetvik K, Aase S. Helicobacter-associated duodenitis and gastric metaplasia in duodenal ulcer patients. APMIS 1991 Nov;99(11):997-1000.

Madsen JE, Vetvik K, Aase S. Helicobacter pylori and chronic active inflammation of the duodenum and stomach in duodenal ulcer patients treated with ranitidine, misoprostol, or an acid-neutralizing agent. Scand J Gastroenterol 1991 May;26(5): 465-70.

Mahony MJ, Wyatt JI, Littlewood JM. Management and response to treatment of Helicobacter pylori gastritis. Arch Dis Child 1992 Jul;67(7):940-3.

Malfertheiner P. Compliance, adverse events and antibiotic resistance in Helicobacter pylori treatment. Scand J Gastroenterol Suppl 1993;196: 34-7.

Mantzaris GJ, Hatzis A, Tamvakologos G, Petraki K, Spiliades C, Triadaphyllou G. Prospective, randomized, investigator-blind trial of Helicobacter pylori infection treatment in patients with refractory duodenal ulcers. Healing and long-term relapse rates. Dig Dis Sci 1993 Jun;38(6):1132-6.

Marshall BJ, Goodwin CS, Warren JR, Murray R, Blincow ED, Blackbourn SJ, Phillips M, Waters TE, Sanderson CR. Prospective double-blind trial of duodenal ulcer relapse after eradication of Campylobacter pylori. Lancet 1988 Dec 24-31; 2(8626-8627):1437-42.

May B. Sucralfate and other non-antisecretory agents in the treatment of peptic ulcer disease. Methods Find Exp Clin Pharmacol 1989;11 Suppl 1:113-6.

McColl KE, Fullarton GM, Chittajalu R, el Nujumi AM, MacDonald AM, Dahill SW, Hilditch TE. Plasma gastrin, daytime intragastric pH, and nocturnal acid output before and at 1 and 7 months after eradication of Helicobacter pylori in duodenal ulcer subjects. Scand J Gastroenterol 1991 Mar; 26(3):339-46.

McColl KE, Nujumi AM, Dorrian CA, Macdonald AM, Fullarton GM, Harwood J. Helicobacter pylori and hypergastrinaemia during proton pump inhibitor therapy. Scand J Gastroenterol 1992;27(2):93-8.

Miller JP. Colloidal bismuth in the treatment of duodenal ulceration: the benefit for the patient. Scand J Gastroenterol Suppl 1989;157:16-20; discussion 21-2.

Miller JP, Faragher EB. The potential impact of Campylobacter pylori on the treatment of duodenal ulcer disease. Scand J Gastroenterol Suppl 1989; 160:39-45.

Morris A, Brown P, Ali MR, Lane M, Palmer R. Treatment of Campylobacter pylori gastritis: a pilot study using pirenzepine dihydrochloride (Gastrozepin) and three formulations of colloidal bismuth subcitrate (De-Nol). N Z Med J 1988 Oct 26;101(856 Pt 1):651-4.

Morris A, Lane M, Hamilton I, Samarasinghe D, Ali MR, Brown P, Nicholson G. Duodenal ulcer relapse after eradication of Helicobacter pylori. N Z Med J 1991 Aug 14;104(917):329-31.

Morris AI. The success of histamine-2 receptor antagonists. Scand J Gastroenterol Suppl 1992; 194:71-5.

Moss SF, Thomas DM, Ayesu K, Levi S, Calam J. Sucralfate diminishes basal acid output without affecting gastrin, H. pylori or gastritis in duodenal ulcer patients. Aliment Pharmacol Ther 1992 Apr; 6(2):251-8.

Mouzas IA, Kalantzis N, Gabriel P, Kallimanis G, Papantoniou P, Mavrogiannis H. Eradication of Campylobacter pylori and recurrence of duodenal ulcer. A six-month follow-up study. Acta Gastroenterol Latinoam 1990;20(3):159-61.

Munoz DJ, Tasman-Jones C, Pybus J. Effect of Helicobacter pylori infection on colloidal bismuth subcitrate concentration in gastric mucus. Gut 1992 May;33(5):592-6.

Murray DM, DuPont HL, Cooperstock M, Corrado ML, Fekety R. Evaluation of new anti-infective drugs for the treatment of gastritis and peptic ulcer disease associated with infection by Helicobacter pylori. Infectious Diseases Society of America and the Food and Drug Administration. Clin Infect Dis 1992 Nov;15 Suppl 1:S268-73.

Murty VL, Piotrowski J, Morita M, Slomiany A, Slomiany BL. Inhibition of Helicobacter pylori glycosulfatase activity toward gastric sulfomucin by nitecapone. Biochem Int 1992 May;26(6):1091-9.

Nafeeza MI, Shahimi MM, Kudva MV, Ahmad H, Isa MR, Sood IM, Mazlam MZ, Jamal F, Suboh Y. Evaluation of therapies in the treatment of Helicobacter pylori associated non-ulcer dyspepsia. Singapore Med J 1992 Dec;33(6):570-4.

Nagata K, Satoh H, Iwahi T, Shimoyama T, Tamura T. Potent inhibitory action of the gastric proton pump inhibitor lansoprazole against urease activity of Helicobacter pylori: unique action selective for H. pylori cells. Antimicrob Agents Chemother 1993 Apr;37(4):769-74.

Nagate T, Numata K, Hanada K, Kondo I. The susceptibility of Campylobacter pylori to antiulcer agents and antibiotics. J Clin Gastroenterol 1990; 12 Suppl 1:S135-8.

Nakanishi T, Shinomura Y, Kanayama S, Matsuzawa Y. Eradication of Helicobacter pylori normalizes serum gastrin concentration and antral gastrin cell number in a patient with primary gastrin cell hyperplasia. Am J Gastroenterol 1993 Mar;88(3): 440-2.

Nanivadekar SA, Sawant PD, Patel HD, Shroff CP, Popat UR, Bhatt PP. Relapse of Helicobacter pylori infection after different treatment regimens. A 3-

month follow-up study. J Assoc Physicians India 1990 Sep;38 Suppl 1:712-5.

Netchvolodoff CV. Refractory peptic lesions. Therapeutic strategies for ulcers and reflux esophagitis that resist standard regimens. Postgrad Med 1993 Mar;93(4):143-4; 147-50, 153-4 passim.

Nunes D, Kennedy NP, Weir DG. Treatment of peptic ulcer disease in the arthritic patient. Drugs 1989 Sep;38(3):451-61.

O'Connor HJ. Eradication of Helicobacter pylori: therapies and clinical implications. Postgrad Med J 1992 Jul;68(801):549-57.

O'Connor HJ, Newbold KM, Alexander-Williams J, Thompson H, Drumm J, Donovan IA. Effect of Roux-en-Y biliary diversion on Campylobacter pylori. Gastroenterology 1989 Oct;97(4):958-64.

Oderda G, Dell'Olio D, Morra I, Ansaldi N. Campylobacter pylori gastritis: long term results of treatment with amoxycillin. Arch Dis Child 1989 Mar;64(3):326-9.

Oderda G, Forni M, Dell'Olio D, Ansaldi N. Cure of peptic ulcer associated with eradication of Helicobacter pylori [letter]. Lancet 1990 Jun 30; 335(8705):1599. Comment on: Lancet 1990 May 26;335(8700):1233-5.

Oderda G, Vaira D, Ainley C, Holton J, Osborn J, Altare F, Ansaldi N. Eighteen month follow up of Helicobacter pylori positive children treated with amoxycillin and tinidazole. Gut 1992 Oct;33(10): 1328-30.

O'Riordan T, Mathai E, Tobin E, McKenna D, Keane C, Sweeney E, O'Morain C. Adjuvant antibiotic therapy in duodenal ulcers treated with colloidal bismuth subcitrate. Gut 1990 Sep;31(9):999-1002.

Patchett S, Beattie S, Keane C, O'Morain C. Short report: short-term triple therapy for H. pylori-associated duodenal ulcer disease. Aliment Pharmacol Ther 1992 Feb;6(1):113-7.

Patchett S, Beattie S, Leen E, Keane C, O'Morain C. Eradicating Helicobacter pylori and symptoms of non-ulcer dyspepsia. BMJ 1991 Nov 16;303(6812): 1238-40.

Patchett S, Beattie S, Leen E, Keane C, O'Morain C. Helicobacter pylori and duodenal ulcer recurrence. Am J Gastroenterol 1992 Jan;87(1):24-7.

Piotrowski J, Yamaki K, Slomiany A, Slomiany BL. Inhibition of gastric mucosal laminin receptor by Helicobacter pylori lipopolysaccharide: effect of sucralfate. Am J Gastroenterol 1991 Dec;86(12): 1756-60.

Pithie AD, Ellis CJ. Review article: antibiotics and the gut. Aliment Pharmacol Ther 1989 Aug;3(4): 321-32.

Poynard T, Pignon JP, Mory B, Naveau S, Chaput JC. Methodological problems of randomized clinical trials in the treatment of duodenal ulcer, gastritis and Campylobacter pylori infection. Gastroenterol Clin Biol 1989;13(1 Pt 1):112B-115B.

Prewett EJ, Smith JT, Nwokolo CU, Hudson M, Sawyerr AM, Pounder RE. Eradication of Helicobacter pylori abolishes 24-hour hypergastrinaemia: a prospective study in healthy subjects. Aliment Pharmacol Ther 1991 Jun;5(3): 283-90.

Quintero M, Mederos I, Sotto A, Buesa F, Haedo W, Gonzalez R. Helicobacter pylori and gastroduodenal ulcer. Behavior under three treatment models. Curr Ther Res Clin Exp 1991;50(6):762-7.

Rademaker JW, Hunt RH. Acid and barriers. Current research and future developments for peptic ulcer therapy. Scand J Gastroenterol Suppl 1990;175: 19-26.

Raedsch R, Walter-Sack I, Weber E, Blessing J. [Pharmacokinetics of bismuth preparations in patients with gastritis and ulcer disease]. Klin Wochenschr 1990 May 4;68(9):488. (Ger).

Rautelin H, Kosunen TU. Helicobacter pylori and associated gastroduodenal diseases. APMIS 1991 Aug;99(8):677-95.

Rautelin H, Renkonen OV, Kosunen TV. In vitro susceptibility of Helicobacter pylori to nitecapone [letter]. Eur J Clin Microbiol Infect Dis 1992 Mar;11(3):274-5.

Rauws EA, Langenberg W, Bosma A, Dankert J, Tytgat GN. Lack of eradication of Helicobacter pylori after omeprazole [letter]. Lancet 1991 May 4;337(8749):1093.

Rauws EA, Langenberg W, Houthoff HJ, Zanen HC, Tytgat GN. Campylobacter pyloridis-associated chronic active antral gastritis. A prospective study of its prevalence and the effects of antibacterial and antiulcer treatment. Gastroenterology 1988 Jan; 94(1):33-40.

Rauws EA, Royen EA, Langenberg W, Woensel JV, Vrij AA, Tytgat GN. 14-C urea breath test in C pylori gastritis. Gut 1989 Jun;30(6):798-803. Comment in: Gut 1989 Nov;30(11):1656-7.

Rauws EA, Tytgat GN. Cure of duodenal ulcer associated with eradication of Helicobacter pylori. Lancet 1990 May 26;335(8700):1233-5. Comment in: Lancet 1990 Jun 30;335(8705):1599.

Rees WD. Prevention of peptic ulcer relapse by sucralfate: mechanisms of action. Scand J Gastroenterol Suppl 1992;191:4-6.

Roine RP, Salmela KS, Hook-Nikanne J, Kosunen TU, Salaspuro M. Colloidal bismuth subcitrate and omeprazole inhibit alcohol dehydrogenase mediated acetaldehyde production by Helicobacter pylori. Life Sci 1992;51(21):PL195-200.

Rokkas T, Pursey C, Uzoechina E, Dorrington L, Simmons NA, Filipe MI, Sladen GE. Non-ulcer dyspepsia and short term De-Nol therapy: a placebo controlled trial with particular reference to the role of Campylobacter pylori. Gut 1988 Oct;29(10): 1386-91.

Rokkas T, Sladen GE. Bismuth: effects on gastritis and peptic ulcer. Scand J Gastroenterol Suppl 1988;142: 82-6.

Rosioru C, Glassman MS, Berezin SH, Bostwick HE, Halata M, Schwarz SM. Treatment of Helicobacter pylori-associated gastroduodenal disease in children. Clinical evaluation of antisecretory vs antibacterial therapy. Dig Dis Sci 1993 Jan;38(1):123-8.

Rosioru C, Glassman MS, Halata MS, Schwarz SM. Esophagitis and Helicobacter pylori in children: incidence and therapeutic implications. Am J Gastroenterol 1993 Apr;88(4):510-3.

Ruhl GH, Borsch G. [Morphologic change in Campylobacter pylori associated gastritis in and following successful antibacterial therapy]. Pathologe 1989 Jan;10(1):64-5. (Ger).

Rune SJ, Justesen T, Hansen JM, Jensen TG, Eriksen J, Thomsen OO, Scheibel J, Bonnevie O, Bremmelgaard A, Vilien M, et al. Prevention of duodenal ulcer recurrence with penicillin. A double-blind, placebo-controlled trial. Scand J Gastroenterol 1993 May;28(5):438-42.

Sarosiek J, Bilski J, Murty VL, Slomiany A, Slomiany BL. Colloidal bismuth subcitrate (De-Nol) inhibits degradation of gastric mucus by Campylobacter pylori protease. Am J Gastroenterol 1989 May; 84(5):506-10.

Schnell TG. Maintenance therapy for peptic ulcer disease: an overview of medical treatment. J Assoc Acad Minor Physicians 1992;3(4):123-9.

Seppala K, Farkkila M, Nuutinen H, Hakala K, Vaananen H, Rautelin H, Kosunen TU. Triple therapy of Helicobacter pylori infection in peptic ulcer. A 12-month follow-up study of 93 patients. Scand J Gastroenterol 1992 Nov;27(11):973-6.

Sherman P, Shames B, Loo V, Matlow A, Drumm B, Penner J. Omeprazole therapy for Helicobacter pylori infection. Scand J Gastroenterol 1992 Dec;27(12):1018-22.

Slomiany BL, Kasinathan C, Slomiany A. Lipolytic activity of Campylobacter pylori: effect of colloidal bismuth subcitrate (De-Nol). Am J Gastroenterol 1989 Oct;84(10):1273-7. Comment in: Am J Gastroenterol 1990 May;85(5):619-21.

Slomiany BL, Murty VL, Piotrowski J, Morita M, Slomiany A. Glycosulfatase activity of Helicobacter pylori towards gastric sulfomucin: effect of nitecapone. J Physiol Pharmacol 1993 Mar;44(1): 7-16.

Slomiany BL, Piotrowski J, Mojtahed H, Slomiany A. Ebrotidine effect on the proteolytic and lipolytic activities of Helicobacter pylori. Gen Pharmacol 1992 Mar;23(2):203-6.

Sodeman WA Jr. Helicobacter pylori and bismuth subnitrate [letter]. Am J Gastroenterol 1990 Sep;85(9):1200-1.

Soll AH, Weinstein WM, Kurata J, McCarthy D. Nonsteroidal anti-inflammatory drugs and peptic ulcer disease. Ann Intern Med 1991 Feb 15;114(4): 307-19.

Stolte M, Bethke B. Elimination of Helicobacter pylori under treatment with omeprazole. Z Gastroenterol 1990 Jun;28(6):271-4.

Talley NJ, Ormand JE. Is antibacterial therapy against Campylobacter pylori useful in the treatment of indigestion and chronic peptic ulceration? Trends Pharmacol Sci 1989 Jan;10(1):36-40.

Tatsuta M, Ishikawa H, Iishi H, Okuda S, Yokota Y. Reduction of gastric ulcer recurrence after suppression of Helicobacter pylori by cefixime. Gut 1990 Sep;31(9):973-6.

Topfmeier P, Eberhardt R, Mateblowski M, Kuhn D. Ulcer relapse rates following initial treatment with bismuth subnitrate as compared with cimetidine respectively. Int J Clin Pharmacol Ther Toxicol 1991 Nov;29(11):437-40.

Tripathi SK. Peptic ulcer--newer concepts [letter]. J Indian Med Assoc 1991 Aug;89(8):236-7.

Tytgat GN, Noach L, Rauws EA. Helicobacter pylori. Scand J Gastroenterol Suppl 1991;187:1-8.

Tytgat GN, Noach LA, Rauws EA. Helicobacter pylori infection and duodenal ulcer disease. Gastroenterol Clin North Am 1993 Mar;22(1):127-39.

Tytgat GN, Rauws EA. Campylobacter pylori and its role in peptic ulcer disease. Gastroenterol Clin North Am 1990 Mar;19(1):183-96.

Tytgat GN, Rauws EA, De Koster E. Campylobacter pylori. Scand J Gastroenterol Suppl 1988;155: 68-81.

Tytgat GN, Rauws EA, de Koster EH. Campylobacter pylori. Diagnosis and treatment. J Clin Gastroenterol 1989;11 Suppl 1:S49-53.

Unge P, Gad A, Gnarpe H, Olsson J. Does omeprazole improve antimicrobial therapy directed towards gastric Campylobacter pylori in patients with antral gastritis? A pilot study. Scand J Gastroenterol Suppl 1989;167:49-54.

Unge P, Gnarpe H, Blomqvist C. Campylobacter pylori: Swedish experiences. Scand J Gastroenterol Suppl 1989;157:12-5; discussion 21-2.

Uppal R, Lateef SK, Korsten MA, Paronetto F, Lieber CS. Chronic alcoholic gastritis. Roles of alcohol and Helicobacter pylori. Arch Intern Med 1991 Apr;151(4):760-4.

Vaira D, Holton J, Ainley C, Falzon M, Osborn J, D'Anna L, Romanos A, Chandrakumaran K, McNeil I. Double blind trial of colloidal bismuth subcitrate versus placebo in Helicobacter pylori positive patients with non-ulcer dyspepsia. Ital J Gastroenterol 1992 Sep;24(7):400-4.

Vogt K, Hahn H. Synergism between clindamycin and colloidal bismuth subcitrate against Helicobacter (Campylobacter) pylori in vitro. Int J Med Microbiol 1990 Nov;274(2):246-9.

Vogt K, Rodloff AC, Hahn H. Combined activity of trospectomycin and colloidal bismuth subcitrate against Helicobacter pylori in vitro. Infection 1991 May-Jun;19(3):138-9.

Von Wulffen H. [Campylobacter pylori: significance, diagnosis, and treatment]. Immun Infekt 1988 Apr;16(2):49-55. (Ger).

Wagner S, Freise J, Bar W, Fritsch S, Schmidt FW. [Epidemiology and therapy of Campylobacter pylori infection]. Dtsch Med Wochenschr 1989 Mar 17; 114(11):407-13. (Ger).

Wagstaff AJ, Benfield P, Monk JP. Colloidal bismuth subcitrate. A review of its pharmacodynamic and pharmacokinetic properties, and its therapeutic use in peptic ulcer disease. Drugs 1988 Aug;36(2): 132-57.

Waldron B, Cullen PT, Kumar R, Smith D, Jankowski J, Hopwood D, Sutton D, Kennedy N, Campbell FC. Evidence for hypomotility in non-ulcer dyspepsia: a prospective multifactorial study. Gut 1991 Mar;32(3):246-51.

## MISCELLANEOUS

Cover TL, Vaughn SG, Cao P, Blaser MJ. Potentiation of Helicobacter pylori vacuolating toxin activity by nicotine and other weak bases. J Infect Dis 1992 Nov;166(5):1073-8.

Dunn BE, Campbell GP, Perez-Perez GI, Blaser MJ. Purification and characterization of urease from Helicobacter pylori. J Biol Chem 1990 Jun 5; 265(16):9464-9.

Goodwin CS. The possibility of a vaccine against Helicobacter pylori. Eur J Gastroenterol Hepatol 1993;5(1):9-12.

Graham DY, Smith JL. Gastroduodenal complications of chronic NSAID therapy. Am J Gastroenterol 1988 Oct;83(10):1081-4.

Leiss O. [Helicobacter pylori-induced cost-benefit risk considerations]. Leber Magen Darm 1989 Dec; 19(6):333-5. (Ger).

Pallen MJ, Clayton CL. Vaccination against Helicobacter pylori urease [letter]. Lancet 1990 Jul 21;336(8708):186-7. Comment on: Lancet 1990 May 19;335(8699):1232.

Strauss RM, Wang TC, Kelsey PB, Compton CC, Ferraro MJ, Perez-Perez G, Parsonnet J, Blaser MJ. Association of Helicobacter pylori infection with dyspeptic symptoms in patients undergoing gastroduodenoscopy. Am J Med 1990 Oct;89(4): 464-9.