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microscopic and microbiological, nutritional, socioeconomic, and dietary data were

also collected. Data were analyzed by χ^2 test and logistic regression. RESULTS: The study included 61, 51 and 64 children as PD, AD and controls respectively. Age and socioeconomic status among the three groups were comparable. Malmutrition (wt/age <75% of NCHS median) was noted in 41 (67%) children with PD, 30 (59%) with AD, and 44 (69%) in controls. The number of HP positive children was 34 (56%) in PD, 23 (45%) in AD, and 25 (39%) in controls, without any significant difference. However, among the malnourished children, HP infection was significantly more often present in the PD group (p=0.04), but not in the AD group, when compared to the controls (Table). In logistic regression, HP infection appeared to be a significant risk factor for PD (Odds ratio 1.91, 95% confidence interval 1.06-3.44, p=0.042). but not for AD. The covariates in the regression equation were age, gender, nutrition status, socioeconomic status, fecal pathogens, breast-feeding, immu mization, mother's education, and place of residence.

	PD	AD	Controls
HP positive	24	13	15
HP positive HP negative	17	17	29

χ2 test, p = Overall 0.08; PD vs control 0.04; AD vs control 0.58

CONCLUSION: A significant association was noted between HP Infection and PD in mainourished Bangladeshi children. Intervention of HP infection may decrease the incidence of PD in this vulnerable population. Gut 2006: 55 (Suppl V) A83

MON-G-16 EFFECT OF EDUCATION AND HYGIENIC HABITS ON PREVALENCE OF HELICOBACTER PYLORI INFECTION

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INTRODUCTION: Certain social conditions influencing the acquisition of H. pylori

(Hp) infection are well recognized, but the effect of education and personal hygienic habits on prevalence of Hp is still not clear.

AIMS & METHODS: Two thousand healthy adults were randomly invited to an academic hospital in Poland to fill out a questionnaire regarding socioeconomic and demographic conditions, education level and hygiene habits. Blood samples were collected and tested for IgG antibodies to Hp by ELISA test.

BESTILTS: 293 (3) 250 persistents regarding days between recognizing of

collected and tested for IgG antibodies to Hp by ELISA test. RESULTS: 793 (39.7%) participants provided complete data. Average prevalence of Hp infection (82.6%) and did not differ among individuals living in a capitol of province (81.6%), urban city (82.8%) and rural area (83.6%). Individuals who were born in a village had higher prevalence of Hp (88.9%) than those born in a small (82.1%) or big city (77.8%) (ρ =0.004). Prevalence of Hp infection was significantly higher in individuals with no (100%) or elementary education (87.9%) than in those with higher education level (high school = 74.3%, college = 77.1%). Every day bathing was associated with 79.2% prevalence of Hp infection, while doing it once a week with 90.3% (ρ =0.04). Brushing teeth thrice a day was associated with 71.8% prevalence while doing it once a day with 88.3% (ρ =0.01). (p=0.01)

Table 1. Association between Hp infection and patients' education

Education	Total n%	Hp-positive	Hp-negative n%
Unedocated	13/1.7	13/100	0
Elementary school	173/22.4	152/87.9	21/12.1
Vocational school	194/25.1	164/84.5	30/15.5
Technical school	148/19.2	121/81.1	27/18.2
High school	101/13.1	75/74.3	26/25.7
College	48/6.2	37/77.1	11/22.9
University	95/12.3	76/80.0	19/20/0

CONCLUSION: Education level and hygienic habits seem to promote Hp infection Gut 2006; 55 (Suppl V) A84

MON-G-17 DECREASING SEROPREVALENCE OF HELICOBACTER PYLORI INFECTION DURING 1993-2003 IN GUANGZHOU, SOUTH CHINA

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INTRODUCTION: The prevalence of Helicobacter pylori infection is inversely associated with socioeconomic conditions. In Guangzhou, a representative city of south China, high prevalence of H. pylori infection has been observed in 1993. Since then, after 10 years, profound social and economic changes have taken place in this city.

AIMS & METHODS: The aim of the study was to evaluate changes in the scroprevalence of H. pylori infection during 1993–2003 in Guangzhou. From March August 2003, sera were collected from 1471 healthy persons (760 males and 711 females, aged 3–92 years) undergoing annual routine health examination in Guangzhou city according to the same inclusion criteria in 1993. H. pylori infection status was checked by enzyme-linked immunosorbent assay (ELISA) with the same ELISA assay system used in 1993.

Age (yes)	Secoprevalence rate (%)		P value
	1993 (no. of persons)	2003 (no. of persons)	
1+	30.8% (49/159)	19.4% (36/180).	0.024
5.	38.8% (33.85)	22.9% (24/105)	0.025
10+	48.5% (63/130)	36.8% (68/185)	0.048
20+	65.2% (88/135)	53.4% (135/253)	0.031
30+	72.6% (74/102)	54.1% (106/196)	0.003
40+	76.2% (83/109)	63.2% (129/204)	0.022
50+	68.2% (75/110)	55.8% (194/348)	0.026
Total	56,0% (465/830)	47.0% (692/14710)	0.0001
Age-standardized rate	62 5%	49.2%	0.0001

RESULTS: In 2003, the overall prevalence rate of H. pylori infection was 47% with no gender difference (P > 0.05). Children aged 1-5 years had the prevalence rate of

19.4%. The prevalence rate then increased steadily with annual infection rate of after this age. The seroprevalence rate was 63°2% at 40–50 years. For corporate of the control of the con wal infection rate of +8 after this age. The seroprevalence rate was 63:2% at 40-50 years. For composi-with the previous H. pylori seroepidemiology study performed in Guangzhou chia decade ago, age-standardized H. pylori seroprevalence rates of both 1993 are 26 were calculated by direct standardization using the data of the Fifth Chinese Coa (2000) in Guangdong Province as the standard population. The overall age-standards H. pylori seroprevalence rate was 62.5% in 1993 and 49.2% in 2003. The previous of H. pylori was found to be significantly decreased over a time span of 10 gas

CONCLUSION: Our data suggest that the seroprevalence of H. pylori infector significantly decreased during the 10-year period in Guangzhou. This change me attributable to the changes in environmental condition and socioeconom that have taken place in this city. Gus 2006: 55 Gut 2006: 55 (Suppl II)

MON-G-18 THE ROLE OF HEALTHY ASYMPTOMATIC RELATIVES IN THE COURSE OF HELICOBACTER-ASSOCIATED PEPTIC ULCER

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INTRODUCTION: There are data about Helicobacter pylori (H.p.) inf asymptomatic patients and their possible tole as a source of infection and the effectiveness of eradication (Rotenbacher D. et al., 2002 [1]). AIMS & METHODS: Investigation of H.p. infection level and the epidem

significance of family members in H.p. spreading and ascertaining the expedien simultaneous eradication therapy in relatives of patients with H.p. infection and paduodenal disorders. 125 patients with peptic ulcer and 124 healthy asymptelatives (involving 47 children) were included in the research. The crit including healthy asymptomatic relatives were negative answers on question symptoms of the disease during the primary examination. The examination symptoms of the disease during the primary examination. The examination is cytological, histological, breathing, immune-ferment tests on H.p., computer st thermometry and pH-metry. Patients and their relatives underwent these tests and 3, 6, 12 months after the eradication therapy.

RESULTS: The H.p. infection index in relatives of patients with H.p.-associate

was $83\pm2.5\%$ (M \pm SE) and it is twice as much as in the control group A recorrelation (p < 0.01) was determined between the duration of united dwelling in than 10 years) and the H.p. infection, also between the diseases of the gastroda zone (chronic gastritis - 44%, peptic ulcer - 16%; in 11 cases the signs disease developed during the research) and the possibility of H.p.-associated d development in seropositive relatives. The early infectivity during a year in parties successful eradication therapy was $81.5\pm4.5\%$ (p < 0.05). Simultaneous per after successful eradication therapy was 81.5±4.5% (p < 0.05). Simultaneous reas of all infected family members (omegrasol 2 mg 2/day, claritromicin 500 mg 28 furasolidon 200 mg 2/day ×10 days) enabled to achieve successful eradicate significantly higher percentage of persons (84.4±5.1%, p < 0.05). CONCLUSION: A high percentage of H.p. infectivity is observed among for members living together with peptic ulcer patients. Simultaneous eradication there couple members or their children with dyspepsia syndrome improves the remotes

of treatment, decreases the frequency of early reinfection of patients and decrease possibility of disease's development in H.p.-scropositive relatives.

REFERENCE(S): [1] Rotenbacher D., Winkler M., Gonser T., Adler G., Bens Role of infected parents in transmission of Helicobacter pylori to their that Pediatric Infectious Disease J. 2002; 21(7): 674–679. Gut 2006: 55 (Suppl F)

MON-G-20 HELICOBACTER PYLORI, INTESTINAL METAPLASIAN GASTRIC ATROPHY: ROLE OF AGE AND GENDER

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INTRODUCTION: The criteria for the characterization of the group of population would most benefit from Helicobacter pylori (Hp) eradication, in order to put gastric tumor, are still uncertain. Our aim was to estimate the relation between infection, intestinal metaplasia (IM) and gastric atrophy (GA), considering and

factors like age and gender.

AIMS & METHODS: From june 1998 to june 2000, 1310 cons amales and 656 females, medium age 59.8±17), never treated for Hp previously been studied by EGDS with 4 biopsies from gastric antrum and corpus (xat to Sydney System). Odds Ratios of association (OR) were calculated with a regression. The age has been stratified on two levels: <45 and >45 years and sin 4 bands (considering of the quartiles' values): <50, 50–62, 63–72, >72 years. in 4 bands (considering of the quartiles values): <50, 50–62, 63–72, 712 pm.

RESULTS: The association between Hp infection and presence of IM is in females (OR adjusted for age = 1.7; p=0.01) than in males (OR = 1.8; p=1.7). The association between Hp infection and presence of GA is also more of in females (OR = 1.6; p=0.03), while in males the association is weak (0s p=0.26). Controlling for the gender, IM and GA are meaningfully associate the Hp infection in the first class of age (<49 years): IM OR = 2.9 (P=0.03). OR = 2.5 (P=0.001). In the other classes of age, such associations are more age 50–62: IM OR = 1.08 (p=0.94) and GA OR = 0.9 (p=0.97); age 63–20. OR = 1.2 (p=0.45) and GA OR = 1.0 (p=0.89); age >72: IM OR = 1.3 (p GA OR = 0.8 (p=0.85).

CONCLUSION: Our study demonstrate that the association between He is and potentially precancerous gastric lesions is meaningful only in younger i (<50 years). These results suggest that Hp eradication could be useful orly class of population and may be used to select patient that need treatment

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MON-G-21 THE INFLUENCE OF HELICOBACTER PYLORI INFECT ON THE PREVALENCE OF ENDOSCOPIC ESOPHAGITIS IN A TURB **POPULATION**

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INTRODUCTION: This study aimed to determine the frequency of en esophagitis, and Helicobacter pylori (H. pylori) infection in a large Turkish ped

AIMS & METHODS: We studied a consecutive series of 14,380 patern had been newly referred for diagnostic esophagogastroduodenoscopy from 2005. The mean age value was 45±10 (18–89) years. All endoscopic findage prospectively recorded. From 2000, an antral biopsy was taken from puta in-house biopsy urease test. Endoscopic esophagitis was defined as the pr