ΞΕΝΟΓΛΩΣΣΕΣ ΑΝΑΚΟΙΝΩΣΕΙΣ (ABSTRACTS) ΕΛΛΗΝΩΝ ΕΡΕΥΝΗΤΩΝ

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EXPRESSION OF P16^{DK4} ON GASTRIC EPITHELIAL CELLS IN H PYLORI POSITIVE GASTRITIS BEFORE AND AFTER ERAD-ICATION OF H PYLORI.

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Background: H pylori(Hp)Infection induces hyperproliferation of the gastric epithelium that is considered a major factor for gastric carcinogenesis. INK4 is a putative tumor suppressor gene and its product, p16^{MKe}, inhibits the kinase activity of the cdk4(cyclin D complex blocking the progression of the cell cycle. Aim: To evaluate the expression of p16^{MKe} on gastric epithelial cells in Hp gastrifts before and after Hp eradication-Patients-Methods:Thirty patients with dyspepsia with and without alters were prospectively studied. At least 4 biopsies were obtained on endoscopy (antral: 2 corpus: 21for CLO-test and histology(H&E, Gientsa, Alcian blue for Sudges, classification). Formaling fixed parafile embedded tissue secwere prospectively studied. At least 4 biopsies were obtained on endoscopy (antral;2,corpus;2)for CLO-test and histology(H&E, Giensa, Alcian blue for Sydney classification). Formalin-fixed paraffin embedded asset sections were stained by the ABC immunoalkaline phosphatase method. Rabbit polyclonal anti-p16 (Santa-Cruz)was used. Staining intensity was graded from 0 to 2+. 33 patients were Hp(+)by both methods and 7 Hp(-)controls). Hp eradication therapy was given to Hp(+) and all patients were endoscoped 116±9 days after; biopsies were obtained and treated as previously, Results: Hip was eradicated in 20 of 23 patients. Normal mucosa: Cytoplasmic staining for p160 for was observed on epitchial cells (profiferation zone 1+, surface epithelium 1+)with less or no stain on epitchial cells between these zones; no staining was observed on glandular epithelium. Hp gastritis: Intense(2+)cytoplasmic staining on epithelial cells in the proliferation zone with nuclear staining in some of themsurface epithelium and glandular cells stained like normal After Hp eradication the staining pattern became like the normal mucosa. In gastric puts with intestinal metaplasia, intense(2+), only cytoplasmic staining was observed before and after eradication. Conclusions: Significance of cytoplasmic staining for p160 for remains unclear but staining of epithelial cells in the proliferation zone of dormal mucosa suggests association with the proliferation of normal cells: expression on surface epithelium is compatible with the observation of p160 for securious patients are reasonable substrate patients (cdk.4/evclin D.p8b)are in the nuclei and G1 arrest is needed for DNA repair mechanisms. In intestinal metaplasia, loss of nuclear p160 for expression may contier to the intense growth potential of these cells. "Supported by gram 70-3-2945/9ED-1909PENED/KA. Greek Ministry of Industry. Energy, Technology

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NSAIDS USE DOES NOT AFFECT H. PYLORI (HP) ERADICA-TION RATE IN PATIENTS WITH DUODENAL ULCER (DU) OR EROSIVE DUODENITIS (ED) WHEN TRIPLE THERAPY IS USED.

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gadioris, Militadis Zissis, Nick Kralios, Alexandra Hosp Gastroenterology Dept, Athens, Greece, Alexandra Hosp, Athens, Greece.

NSAIDs use could reduce the efficacy of eradication regimens in curing HP infection. The aim of our study was to evaluate if HP eradication rate is affected by NSAIDs use in patients with DU or ED, when a triple eradication regimen is used. Patients and methods: 315 patients (220 DU-95 ED, mean age 51.72-14.3 years, 175 men, 105 smokers, 125 on NSAIDs treatment at least 3 times a week), all HP positive, received a 10 days eradication regiment with omeprazole 20mg bid, clarithromycin 500mg bid, amoxycillin 1g bid. Of those initially receiving NSAIDs: 57 continued them (Group III, all patients initially not receiving NSAIDs is 57 continued them (Group III, all patients initially not receiving NSAIDs and not receive NSAIDs during eradication treatment (Group III, n=190). Endoscopy was performed 4-6 weeks after treatment completion. HP eradication was verified by histology, CLO-test and ³³C-urea breath test. Stat: X'test, t-test. Results: 295 patients had a follow up endoscopy. 20 lost during follow-up, 6 discontinued treatment prematurely. Patients of Group III were younger. More smokers were included in group II, Intention to treat eradication rates were: Group 1: 83.7%(CI 78.4-89). p-0.1. Per protocol eradication rates were Group 1: 83.7%(CI 78.4-89). p-0.1. Per protocol eradication rates were Group 1: 83.5%(CI 75.4-95). Group III: 84.4% (CI 75.2-93.5). Group III: 83.8%(CI 85.3-94.3). p-0.1. There was no difference in eradication rates among the 3 groups when patients with DU and ED or smokers and non-smokers were examined separately. Conclusions: NSAIDs use seems no to affect HP eradication rates, when a riple regimen comprising omeprazole, amoxycitlin and clarithromycin is received.

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HELICOBACTER PYLORI PHENOTYPES IN SYMPTOMATIC H
PYLORI(+)PATIENTS AND ASYMPTOMATIC CONTROLS:
CORRELATIONS WITH GASTRITIS PARAMETERS.
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Steece, below to another, we also supposed that differences in Helicobacter pylo-ri(Hp)phenotypes, mainly of the Cay A, contribute to the virulence of the Hp and consequently to the outcome of the infection. Aims: I. To study the Hp phenotypes in dyspectic Hp(t+p) substents in comparison with Hp(t+)asymptomatic controls. 2. To investigate any correlation between the HpIn pienotypes and the parameters of gastritis/activity chronic Inflammation-asymptomatic controls, 2. To investigate any correlation between the Hp phenotypes and the parameters of gastritis/activity chronic Inflammation-arrophy.inestinal menaplasia, Hp density: Sydney classification, Patients and methods: 4.47 dyspeptic, Hp(+) by CLO and histology, patients(age: 50.62.2.2.045E)with declenal ulcer(38), gastritis(5) and gastric and diode-nal pathology(4); b.20 asymptomatic, Hp(+) by scrology blood donors (age: 46.95.25E)as controls. Hp phenotypes were studied in the sera using Westem-blot (SQRIN-19G) for the following proteins: Cag A(Pl.20), Vac A(p87), Urease (p63), Flagelins (p57, specific p54), In 29/47 patients (age: 50.14.22.595E), additional biopiess from the gastric anturn and corpus were evaluated for gastritis (Sydney classification: H&E, Giernsa, Alcian blue), Results: No difference was found in the distribution of Cag. A. Vac A and Urease in patients and controls. However, significant differences were found for the flagelin proteins p54 (36% vs. 10%, p=0.038) and p57 (81% vs.55%, p=0.039)(table). No correlation was found between pheno-types and the gastritis parameters, as were graded. Conclusions: 1.There is significant overpresentation of flagelin proteins in patients. Flagelae con-tribute to the mobility of Hp and by extention to its virulence. 2. Hp phenotypes in paleon and controls (peruntage) parendeses;

Hip phenotypes in patients and controls (percentage in parentheses):

Phenotypes	Pabents (n=47)	Controls (n=20)
Cag A (+)	39/47 (83)	17/20 (85)
Vac A (+)	38/47 (76.6)	12/20 (60)
(irease (+)	42/47 (89.4)	17/20 (85)
⊕ Flagelin p54	17/47 (38)	2/20 (10)
Thiselin p57	38/47 (81)	11/20 (56)

Pio=0.038, F7 a=0.039 (Figurer's exact test)

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EVALUATION OF A RAPID, NEW TEST (TESTPACK PLUSTM) FOR DETECTING SERUM ANTIBODIES TO HELICOBACTER PYLORI.

PTLORI.
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To initiate a "test and treat" strategy, rapid, one step, reliable, inexpensive serum tests are needed for diagnosis of H. pylori infection. We have evaluated the performance characteristics of the new TestPack Plus™ H. pylori test (Abbott Laboratories), which is a one minute qualitative test for the detection of antibodies to H. pylori in serum. Methods: In a prospective study 130 dyspeptics and patients with upper GI bleeding were studied. Patients were defined H. pylori (+) if two out of three reference tests (histology, rapid oreast test, Gram staining of biopsy smears) were positive and H. pylori (-) if all three tests were negative. The results of TestPack Plus™ ere compared with those of commercially available enzymelinked immunosorbent assay (ELISA) kits qualitatively detecting IgG H. pylori serum antibodies (Pylorisct, Orion, Milenia H. pylori, DPC). Results: Seven patients had only one positive out of three reference tests and were excluded. Out of 123 patients (78 males, 45 females, 50, 17-85 years old) 95 were defined H. pylori (-) by the gold standard. Performance characteristics of the kits studied as compared with the gold standard are shown in Table 1. Conclusions: The sensitivity and specificity of TestPack Plus™ one step serum test are lower as compared to those of serum ELISA. However, its high positive predictive value makes it a valuable tool for in-laboratory screening purposes.

	Sensitivity	Specificity	PPV	NPV	ACO	
TestPack	35	75	92	60	83	
Pytoriset	32	82	95	74	59	
M:lieria	94	72	97	78	50	

PPM postive predictive value negziwe predictive valve

CDA, everal: diagnostro accuracy

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DEVELOPMENT OF ESOPHAGITIS AFTER H.PYLORI ERADI-CATION: IMPACT OF CAGA STATUS.

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There is increasing evidence that Helicobacter pylori (H.pylori) eradication might predispose to refux esophagitis(RE). However, the role of CagA status in the development of RE after H.pylori eradication has not been status in the development of RE after H.pylori eradication has not been studied so far. The aim of this prospective study was to examine the impact of CagA status in relation to the appearance of RE after successful H.pylori treatment. Methods: 50 consecutive, successfully eradicated patients, without RE at the time of H.pylori treatment [25 doodenal ulcertOU] and 25 non-ulcer (NU), 30M, 20F, median age 41.5 yrs, range 21-57] were followed up for 24 months, All patients underwent upper GI endoscopy before and at 0, 6, 12, 18 and 24 months after H.pylori eradication or when reflux symptoms occurred. During endoscopy gastric, aniral and corpus biopsies were taken for gastritis evaluation. The sum of the scores for acute biopsies were taken for gastritis evaluation. The sum of the scores for acute (0-3 (0= absent, 3= severe)) and chronic inflarnmation (0-3) comprised the total gastritis score. CagA was determined by immunoblosting the sera from patients against H.pylori analysis. The independent variables CagA status, age, sex, smoking, alcohol intake, gastritis scores of antrum and corpus gastricis before H.pylori eradication, were introduced in a multivariate logistic regression analysis (MLRA) with RE during follow up as a dependent variable. Results: Among the 50 H.pylori+) patients before eradication there were 22 (44%) CagA(+) patients and 28(56%) CagA(-). During follow up 12/50(24%) patients developed RE and among them there were 11 CagA(+) and 1 CagA(-) patient (P=0.0002, odds ratio 27, 95% Cl 3.1-235.1). In the MLRA except for CagA(+) status, the severity of corpus gastritis before eradication exerted a significant influence (0.04%) on the development of RE after H.pylori eradication. Conclusion: on the development of RE after H.pylori eradication. Conclusion: CagA(+) status and severity of corpus gastrins before H.pylori eradication significantly favor the development of RE after successful H.pylori treat-

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REDUCED INCIDENCE OF THE NON-INSAIDS RELATED PER-TIC ULCER IN THE LAST YEARS BUT THE HELICOBACTER PYLON IS STILL HERE: A 9.5 YEARS EXPERIENCE. Vassilios E. Balatsos, Vashlos Delis, Anattasios Konsaudinidis, Panagiotis Kasapidis, Athanasios Hatzinikolaou, Nikolaos Skandulis, Athanasios Archimandrius, Gen Adrens Hosp of Gennimatos, Athens. Greece: Gen Hosp of Almens, Generalimatos, Athens, Greece; Dept of Pathophysiology, Med Sch, Univ of Athens, Athens, Greece;

Background't has been suggested that the incidence of Peptic UlcertPU) is declining during the last years. Aims: a.To evaluate the incidence of non-NSAIDs related PUs in three periods through the last 9.5 years of non-NSAIDs related PUs in three periods through the last 9.5 years of application of H pyloritHy) eradication therapies, BTo see the prevalence of H0 among them. Patients-Methods: A computer search was made from May 1st 1990 through October 31st 1999 to find out all patients with endoscopically diagnosed for the first time PUs in our institution; emergency endoscopies were also included. Patients who reported NSAIDs or aspirin intake, those who ingested caustic substances and patients with Crohn's were excluded. Three time periods were analysed. A: May 1 1990-December 31 1991 (20 months). B: May 1 1995- December 31 1996(20 months). C. January 1 1999- October 31 1999(10 months). Gastric H0 colonization was documented by CLO test and/or histotogy (H&E. modified Girmsa). Results: These are shown in the table. There is a progressive and significant reduction (up to 50%) in the miclearce of PUs. (DUs and GUs). The H0 (-) cases do not differ in the three studied periods (90-92%). Conclusions: a. There is a steady declining incidence of PUs. (DUs and GUs and GUs during the studied period. B. H0 colonization is constantly documented in 90-92% of the ulters by the used methods. The third of the significant decrease of PUs in the studied population. H0 remains the predominant factor in the pathogenesis of non-NSAIDs related PUs. Background: It has been suggested that the incidence of Peptic UlcenPU) is

incidence of PUs in each period of time (percentages in parentheses)

	Paried A	Period 8	Periad C
Patients	7479	7475	2594
CPUs	904 (12)	\$80 (9)	151 (6)
Sext UF)	613/286	442/239	129-75
Age(range)	16-28	15-85	16-92
001	589 (7.9)	461 (5.2)	97:37
· Gus	355 (4.2)	219 (2.9)	54 (2.4)
Np (+) cases (%)	31	99	92

(-) (*** (***)) ps0 6007

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DIETARY, DRINKING AND SMOKING HABITS IN PATIENTS WITH DUODENAL ULCER; A CASE-CONTROL STUDY. Athanasios Archimandritis, Mariana Chronaki, Dimitris Kalogeras, Nec-

taria Toupadaki, Michalis Tzivras. Dept of Pathophysiology, Med Sch, Univ of Athens, Athens, Greece.

Aim: To investigate the dietary, drinking and smoking habits in patients with active duodenal ulcer(DU) as compared to healthy controls. Patients-methods: 100 consecutive patients (men = 73, age: 19-84 y, mean ± SD meanous: (b) consecutive patients (men = 13, age; 19-84 y, mean ± 5.0 else = 48 ± 15) wish endoscopically, for the first time, diagnosed DU,100 clinically healthy people without past history of peptic ulcer, absolutely matched with DU patients with regard to sex.age, and various socioeco-nomic parameters (income, education, area of misdence, and number of rooms during the last 10y) served as controls. We studied: 1. Dietary, drinking and smoking habits using suitable questionnaire,? It kinds of food grouped in 9 categories' were included 2 Obesity index(Obi)as estimated from the people's height and body weight 3.Hp status by serology(ELISA Ig-O). Conditional regression analysis was used for statistics.Odds Ratios (OR)were calculated after appropriate adjustments. Results:Prevalence of Hp was higher in DU patients(OR=4.31.95%CI=1.86-9.95,p=0.0006). No Hp was higher in DU patients(OR = 4.31, 95%CT = 1.86-9.95, p=0.0006). No differences in the Hp status in relation to the studied socioeconomic factors were found in patients and controls. Smoking did not differ, Patients' height and body weight differed between DU and controls (OR =0.49, 95% and CE=0.34-0.72, p<0.001 and OR=0.58,95%CT=0.41-0.31,p<0.002 respectively); Obi did not differtp=0.06, OR=91% 95%CT=0.82-1.00). Coffee drinking did not differ by and large but significantly more "Greek coffee" was consumed by patients (p=0.004, OR=1.59.95%CI=1.16-2.19). In general, patients consumed significantly more spirits and controls 2.19). In general, patients consumed significantly more spirits and controls more wine. Controls consumed significantly more legumes and light lipids including olive oil (p=0.01, OR=0.69, 95% CI=0.51-0.93 and p=0.05, OR=0.79, 95% CI=0.49-1.01) and more postuoes (OR=0.91, p=0.71) and vegetables (OR=0.86, p=0.41). Patients consumed more cereals (OR=1.23, p=0.17), fruits (OR=1.94, p=0.0004), pastress (OR=1.94, p=0.0004), pastress (OR=1.94, p=0.0004). Part of the constant of the c in patients and controls 2.Patients consumed significantly more "Greek

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INCIDENCE OF HELICOBACTER PYLORI (HP) INFECTION IN PATIENTS WITH RHEUMATIC DISEASES.
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Objective: To evaluate the scruprevelance of Helicobacter pylon (Hp) infection in patients(pts) with rheumatic diseases. Methods: Serium samples of 62 pts with rheumatoid artaritis (RA). 20 pts with systemic lupus crythematosus(SLE). 18 pts with seronegative spondylitis(SNS), 32 pts with ostearthritis(GA) and 36 volunteers (V) was measured for 1gA and 1gG andbodies against Hp by enzyme immunoassy (serine lefts classic). Positive were titers > 30 U/ml. Western blotting was used as confirmation. No stibier that received the entiresting treatment and or substantiate. Positive were titers>30 L/ml. Western blotting was used as confirmation. No subject had received Hp eradication treatment, gold or sulphasalazine treatment in the past. Concurrent use of NSAIDs, steraids and annithrounatic drugs was recorded. Comparison and statistical analysis in incidence/@yand average IgA and IgG titers(M), between the subjects was performed using the x² test and Student's treat. Results: Comparing % and M: a) RA, SLE, SNS, OA, pis to V and b) RA to OA, pis, as shown in the Table revealed: 1)a greater incidence in RA pis than V for IgA(p=0.0017)and IgG(p=0.0184), 2)a greater incidence in OA pis band V(p=0.0005)for IgA antibodies. 3)a higher average titer in RA pis for IgA(p=0.0037) and IgG(p=0.0260) than V. 4)a higher average titer in RA pis for IgA(p=0.0038) than V. Comparison between SLE or SNS pis with V did not appeared statistically significant. Discussion: Patients with rheuractiol arthritis show a significantly higher Hp scropositivity and higher titers of IgA and IgO antibodies than healthy volunteers, whereas patients with osteouthritis show significantly higher Hp scropositivity and higher antibodies. No difference in scropositivity was found between RA and OA antibodies. No difference in scropositivity was found between RA and OA antibodies. No difference in seropositivity was found between RA and OA patients. Our observations provide evidence that incidence of Hp infection is higher in these patients.

	RA	SLE	SHS	0A 0A 0A n=32	Ÿ
Aوا	34.52	7/20	7/18	17/32	8:36
%	55.72	35	38.89	53.12	22 23
M ± SEM	51 2 ± 5 5	37 2 ± 10	354±63	50 : ± 7.7	30.3 ± 4.9
193	41:52	9.20	11/18	19:32	15/26
4	€€ 12	45	€1.71	59 37	41.67
¥ = SE₩	7.0+99	41.6 ± 10.3	44 B ± S 1	590±93	422±80

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DIAGNOSIS OF HELICOBACTER PYLORI INFECTION WITH A NEW NON-INVASIVE STOOL ASSAY BEFORE AND AFTER ERADICATION TREATMENT; THE REAL LIFE. Apostolos Gionzas, Stavroula Smilakou, Michalis Tzivras, Athina Avlami, Panaglois Davaris, Athanasios Archimandrius, Dept of Pathophysiology, Med Sch. Univ of Athens, Athens, Greece; Dept of Microbiology, Laikon Gen Hosp, Athens, Greece: Dept of Pathology, Med Sch, Univ of Athens, Athens, Greece: Dept of Pathology, Med Sch, Univ of Athens, Athens, Greece:

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Background: It has been suggested that a new H pylori(Hp)stool untigen Ela(HpSA Premier Platinum,Meridian Diagnostics. Cincinnati, USA his reliable, easy to perform tool to diagnose Hp infection. However, after eradication of Hp the results are controversial. Aim: To assess the accuracy of this stool assay in diagnosing Hp infection before and after etadication, in comparison with the 2 mostly used in practice methods i.e. CLO test and histology. Patients: Methods: Two groups of patients with dyspepsia with and without uicer were prospectively studied. Group A:i3 consecutive adult patients who were examined for the first time: exclusion cruteria: any treatment for Hp previously, any antibiotic in the previous 6 weeks, active Gl bleeding, corrent treatment with corticosteroids or NSAIDs, with PPI or bismuch containing compounds during the previous 3 months or previous gastric surgery. Group B: 18 adult patients with no gastric operation or active Gl bleeding who completed an eradication treatment and had not received PPIs. H,RA, bismuth salts, antibiotics, corticosteroids, NSAIDs for the last month, Patients were endoscoped and 4 biopsies were taken (2 antrum, 2 corpus) for histology (H&E, Giemss stain) and CLO test; patients were considered Hpt+Hr either test was positive; both needed to be negative for the patient to be negative. Stool samples were collected during the first 4 days after endoscopy before any treatment, and examined by the HpSA ELA (±50 nm spectrophotometry, cut-off <0.140); results were interpreted blindly. Results:Those are shown in the table. Conclusion: HpSA is a retable test in diagnosa are shown in the table. Conclusion: HpSA is a retable test in diagnosa are shown in the table. Conclusion: HpSA conclusion HpSA ELA (±50 nm spectrophotometry, cut-off <0.140); results were interpreted blindly. Results:Those are shown in the table. Conclusion HpSA is a retable test to confirm Hp crudication.

	Group A (n= 43)	Group B (n= 18)
Kp(+) by definition	35	E
Kpi-} by definition	3	12
HoSA(+)	31	1
HpSAI-I	5	12

RpSA(Group A): sensitivity 89% specificity: 100% PPV: 100% PPV: 67% RpSA(Group B): sensitivity 17% specificity: 100%, PPV: 100%, NPV: 71%

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H. PYLORI INFECTION IN COMMON VARIABLE IMMUNODE-

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Aim: To study the prevalence of H. pylori infection (Hp) in CVID and gastric pathology in the presence or absence of Hp. Methods This study was performed in 20 patients [11 females: mean age 35 (15-56) years] with newly diagnosed CVID but no detectable autoantibodies against parietal cells, intrinsic factor, gliadin and endomystim. Patients with non-uicer disease matched for age, gender, social class and social habits served as controls. Patients underwent endoscopy with multiple biopsies from the deodenim and the gustric antium, body and fundus. Hp was sought by CLO-tests, histology (Gotma) and immunohistochemisuy trabbit IgG anti-human Hp mcAb, DAKO). Gastritis was graded for activity and sevency (O-3, Houston system). Hp load (O-3). Lymphocytic infiltration was graded according to Isaacton system (O-5), Results: Twelve patients had gastric and/or intestinal nodular lymphoid byperplasia. I5 had diffuse and 6 focal mucosal crythema and 6 had arrophic gastric rugae. Hp infection was diagnosed in 14 patients. Hp- patients had mild, chronic corpus-predominant gastritis, without any mucosal atrophy or intestinal metaplasia. Mucin depletion was minutal. A variabity dense T-cell pre-metaplasia. cells, intrinsic factor, gliadin and endomysium. Patients with non-vicer corpus-pregominant gesories, whose any interest are metaplasis. Mucin depletion was minural. A variably dense T-cell pre-dominant chronic inflammatory cell influent was seen in the upper part of the mucosa oblinerating and distracting individual glands and crypts. Plasma cells were absent but primary lymphoid folicies were seen. The number of intra-cpitchelial lymphocytes (IEL) per 100 epithelial cells and the number of apoptotic bodies per 10 glands were significantly increased over Ho-control patients. This picture resembled gastric acute graft-versus-host disease (GvHD). In Hp + patients a chronic pangastritis pattern with multifocal atrophy and areas of complete and incomplete intestinal metaplatia was seen. The mucosa was infiltrated with chronic inflammate pattern and the second of the control of the con tory mononuclear cells; T cells were predominant and B cells or plasma cells were only rarely seen. The number of IELs and apoptotic bodies was cells were only farely seen. The number of IELs and apoptotic bodies was statistically higher than in Hp+ controls. Gastritis severity and activity scores were statistically lower but the Isaacson score was higher than in controls. Eradication of Hp restored a pattern of inactive superficial gastritis in the antrum and a CvHD-like pattern in the body of the stormach. Conclusion: Hp infection seems to accelerate gastric arouphy in CvID; this may increase the potential for malignant transformation. Eradication of Hp may reverse these changes. Hp- patients have mild gastritis resembling reserve each. gastric acute GvHD

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HELICOBACTER PYLORI INFECTION AMONG PATIENTS WITH ALCOHOLIC AND NON-ALCOHOLIC CIRRHOSIS. Christos Liatos, Kalliopi Petrak, Vasilio Xirometino, Nikos Sfougatakis, Georgios Oikonomou, Constantian Papadimitrou, Antonios Nakos, Hypokrateion Hosp Gastroenterology Dept. Athens. Greece: Hippocrateion Hosp Pathology Dept. Athens. Greece: Hippocrateion Hosp Pathology Dept. Athens. Greece.

kos. Hopokrateion Hosp Gastroenterology Dept. Athens. Greece; Huppocrateion Hosp Pathology Dept. Athens. Greece; Huppocrateion Hosp Pathology Dept. Athens. Greece; The prevalence of He lictobacter pylori (H.P.) in patients with alcoholic and non-alcoholic cirrhosis is uncertain. The aim of this study was to desermine the prevalence of H.P. linection among cirrhotic patients and to evaluate in relationship to demographic data, etiology of cirrhosis and liver function. Methods: Upper Gl endoscopy was performed in 45 consecutive cirrhotic patients. The existence of varices, gastritis and H. pylori infection was stimated. H. P infection was chermined by CLO-text and with antral biopsite (n=5). No postent received NSAIDs, and-secretory drugs or antibioxis for at least the last 3 months. Etiology of cirrhosis was classified a alcoholic for all nears the last 3 months. Etiology of cirrhosis was related to age, sex, chiology of cirrhosis, gastritis and Child-Pugh grading. H. pylori gastritis was estimated according to modified Sydney classification. Chi-Square test was used for the statistical analysis. Results: Twenty alcoholic and 25 non-alcoholic (HBN: 14, HCV: 8, PBC: 3) cirrhotics (m: 34, F: 11), with a median age of 59 years (range: 34-83) were included. Overall H. pylori prevalence was 62,2%. The prevalence varied from \$2,2% to 72,7% in those younger and older than the median age (pNS) and from \$8,8% to 72,7% in men and women (pNS) respectively. 50% of alcoholic and 72% of non-alcoholic cirrhotic spicitis were H pylon(+4) (pNS). Among all patients. 24 (53,3%) were of grade A. 13 (28,9%) of grade B and 8 (17,8%) of grade C according to Child-Pugh grading and 37,5%, 84,6% and 100% were infected respectively (p<0.01 (A vs B), PC 0.01 (A vs C), PNS (B vs C)]. Exophageal varices were found in 16 (80%) of alcoholic and in 17 (68%) of non-alcoholic cirrhotics settences were found in 16 (80%) of alcoholic and in 16 (72%) and 17 (68%) of non-alcoholic cirrhotics. Endoscopic gastritis and histologically determined congest in 11 (35%) and 8 (40%) of alcoholic patients and in 18 (72%) and 17 (68%) of non-alcoholic patients respectively (p.NS). In cirrbotics with endoscopic gastriis H.P. infection was histologically confirmed in 80% of alcoholic and in 100% of non-alcoholic patients. Conclusions: a)The prevalence of H.P. infection in cirrotics was 62.2%, b) H.P. infection was not related to age, gender or etiology of cirrhosis of Endoscopic gastriits was histologically related especially to H.P. gastribs and not to congestive gastropothy d) The severity and activity of gastriits was related to H.P. grade and not to congestive gastropothy e) Posients with more severe cirrhosis (grade C and B) had more severe H.P. infection grade in comparison with grade A cirrhotics.

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PROLONGATION OF OMEPRAZOLE (O) TREATMENT AFTER H. PYLORI (HP) ERADICATION INFLUENCES THE INCIDENCE OF ESOPHAGITIS.

OF ENOPHAGITIS.

Spyros Michopoulos, Panayiotis Tsibouris, Angeliki Balta, Maria Sotiropoulou, Georgios Galanopoulos, Nick Kralios, Alexandra Hosp Gastroenterology Dept, Athens, Greece; Alexandra Hosp, Athens, Greece; Alexandra Hosp Pathology Div, Athens, Greece.

The need for prolongation of antisecretory treatment after KP eradication is disputable. The aim of our study was to evaluate if prolongation of antisecretory treatment after successful eradication could influence the is disputable. The aim of our study was to evaluate if prolongation of antisercetory treatment after successful endication could influence the incidence of esophagitis. Pattents and methods: 181 patients with duodenal theer (DU) and 74 with erosive duodentits (ED), all positive for HP were randomly assigned to continue O 20mg de for 7 (Group I.85 patients), 21(II.85 patients) or 35 days (III.85 patients) respectively, after a 10 days regimen with O 20mg bid, clarithromycin 500mg bid, amoxycilline 1g bid. Groups were comparable for sex, age smoking and bleeding at the entry. Endoscopy was performed 3 months after treatment. HP eradication was verified by histology, CLO-test and ³C UBT. Esophagitis was graded according to the Savary-Muller. Stat: X³ test, t-test, Results: 242 patients bad a follow up endoscopy (mean age 50.3 ± 15 years, 140men, 76smok-ers). Intention to treat eradication rates were: Group E 82.4%(CI 74.1-90.6), II: 81.2% (CI 72.4-89.7), III: 84.7%(CI 76.9-92.5). p>0.1. Pretreatment (E₀) and post-treatment (E₀) esophagitis and changes in exophagitis status at a 3 month period after successful eradication are shown in the table: Ag: aggravation or de nova appearance. NC: no change, Imi improvement or disappearance of esophagitis. 32/152 with DU and 2/62 with ED presented E₀ (p=0.002). 16/56 with bleeding at entrance endoscopy and 18/158 without bleeding also presented E₃ (p=0.05). Of those who did not eradicate HP, two patients of Group III presented esophagitis (p>0.1) both pre and post-treatment. Age, sex smoking, histos hertial, post-treatment gastriits and commorbid diseases did not influence the incidence of E₃. Conclusions s) Prolongation of antisecretory treatment of 55 days could aggravate esophagitis 3 months after successful HP eradication. 2) DU and bleeding at entrance endoscopy could be considered as aggravating factors increasing the incidence of post-treatment esophagitis.

	E.	Eı		NC	<u>kn</u>
	12	14	10	54	. 6
ž	12	10	6	57	6
LM .	8	22	18	50	4
Р	<u> 20.1</u>			<0,001	

Digestive Disease Week, 21-24 May 2000, San Diego, CA Gastroenterology 2000;118(Suppl 2):A1326

6048

DOES CURE OF THE H. PYLORI INFECTION INDUCE GASTRO-ESOPHAGEAL REFLUX SYMPTOMS IN PATIENTS WITH DUO-DENAL ULCER?

Basil Xourgias, Konstantinos Triantafyllou, Maria Mylonaki, Georgios Katsoras, Demetrios G. Karamanolis, Tzancion Hoso, Piraeus, Greece.

national, Demertios G. Karamanouis, Izuncion Hosp, Piracus, Greece. The development of gastocesophageal reflux disease (GERD) symptoms following eradication of H. pylori (H.p.) in patients with duodenal ulcer (DU) remains controversial. Alin: To evaluate the development of symptoms from upper GI tract in patients with DU after cure of H.p. infection. Methods: 93 consecutive patients [72 mea/ 2] women, age (mean) 55 (37-77) years) with endoscopically proved H.p. (+) DU who were treated with omerazole, clarithromycin and amoxycillin and H.p. was cradicated were eurolled in the study. All patients underwent follow-up endoscopy at least 1 month after the end of the treatment and none of them had reflux esophagitis. At the end of the treatment all patients entered follow-up phase with visits every 3 months. Upper GI symptoms such as heartburn, regurgitation, epigastric pain, nausea, vomiting, early satiety, postprandial fullness and belching were assessed pre-entry and at every visit. Each symptom was scored on a fourth graded seale (0= abscence, 1= midd, 2= moderate, 3= severe). None of the patients had reflux or dysmodility-like symptoms at the pre-entry assessment. Results: Mean period of follow-up was 35 (28-44) months. 60/93 (64-5%) pta developed symptoms during follow-up. The comulative mean symptoms-free interval was 25 (95% CI: 22-27) months. Dnly 6 (6-5%) patients developed epigastric pain, but dysmodility-like symptoms (post-prandial fullness, early satiety, beliching) developed at 36 (38,7%) pts (mild / moderate: 30 / 12) and the cumulative mean feliux symptoms-free interval was 20 (95% CI: 22-33) months. Hearthour and/or regurgitation developed at 4293 (45,2%) pts (mild / moderate: 30 / 12) and the cumulative mean reflux symptoms-free interval was 29 (95% CI: 22-32) months. The time of presentation of GERD symptoms was not correlated with their severity [mild / moderate: 12 (95% CI: 10-14) / 16 (95% CI: 20-12), log tank 1,8, p= 0,181. On the contrary moderate effects approached and the contrary moderate

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4/43 The Peroxidation of Polyunsaturated Fatty Acids (PUFAs) in the Pathogenesis of Chronic Gastritis.

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Objective: To define the role of PUFAs peroxidation in the pathogenesis of chronic gastritis.

Methods: Eighty seven patients -53 male, 34 female, 64.5±19.4 yrs-with symptoms of chronic gastrins were subject to gastroscopy; gastric juice and biopsies from the body, antrum and fundus were taken. Peroxides were determined in gastric juice by the thiobarbiturate assay as malonodialdeyde (MDA) analogues.

Results: In five pts with median MDA of 60mM no gastritis was documented. Fifteen pus were HP(+), 13 presenting with diffuse gastritis. Among them MDA respective to activity scores 1, 2 and 3 were 779.4±395.6, 2014±484.5 and 2262.5±500mM. Among 30 HP(-) pts with diffuse gastritis respective MDA to activity scores 1, 2 and 3 were 1350±590, 1874.2±1316.6 and 4795.5±1612.5mM and among 20 HP(-) pts with gastritis of the antum respective MDA to activity scores 1, 2 and 3 were 2258.3±361.2, 2039.6±1781.3 and 4125±125mM. A positive correlation was documented between the extent of the mucosal involvement and the MDA concentrations in both HP(-) pts (r: +0.294, no.005) and HP(+) bts (r: +0.694, n. 0.026).

p.0.05) and HP(+) pts (r: +0.694, p: 0.026).
Conclusions: Peroxidation of PUFAs is involved in the pathogenesis of chronic gastritis independent of the presence of Helicobacter pylori being related to the extent of the inflammation of the gastric mucosa.

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*3504

TIME TREND FOR THE APPEARANCE OF ESOPHAGITIS AFTER HELICOBACTER PYLORI ERADICATION.

Theodore Rokkas, Spiros D. Ladas, Constantine Triandafyllou, Sotirios A. Raptis, 401 Army Gen Hosp & Med Sch, Athens Univ, Athens, Greece; Med Sch, Athens Univ, Athens, Greece; Med Sch, Athens Univ, Athens, Greece.

Successful Helicobacter pylori (H.pylori) treatment has been reported to predispose to the development of reflux explopagitis (RD. However, despite this evidence, to date no attention had been paid to the time trend for the appearance of RE after H.pylori treatment. This information could be of importance in dealing with patient management after creditation. The aim of this prospective study therefore was two fold. Firetly, to exemine the RE rate after H.pylori eradication and secondly, to study the time trend for the appearance of RE. Methods: 50 consecutive, successfully cradicated patients, without RE at the time of H.pylori treatment [25 duodenal ulcer (DU) and 25 non-ulcer (NU), 30M, 20F, median age 41.5 yrs, range 21.57) were followed up for 24 months after H.pylori evaluation or when reflux symptoms occurred. The chi-equare test for trend and the life table analysis were performed for calculating the insidence and time trend for RE appearance after H.pylori evaluation. Patients were consorred if the end point was reached or if RE was noted at endoscopy. Results: Among the 50 H.pylori's puccessfully treated patients, 12/50/24% developed during the first year of the follow up, at months 5.6,7,9,10,11 and 12 (respective percentages of patients without RE 93,96,92.90,88,36 and 82%) as opposed to only 3/12/25% patients (pcc.0001) in whom RE appearsed during the second year of the follow up, at months 16,17,18 (respective percentages of patients without RE 80,78 and 76%). Conclusion: A substantial proportion of H.pylori successfully treated patients develop RE and the time trend suggests an increased risk during the first year after H.pylori eradication of H.pylori successfully treated patients develop RE and the time trend suggests an increased risk during the first year after H.pylori eradication of H.pylori successfully treated patients develop RE and the time trend

XIIIth International Workshop on Gastroduodenal Pathology & Helicobacter pylori, 11-14 October 2000, Rome, Italy Gut 2000;47(Suppl I):A77

11/3 Reduced incidence of the Non-NSAIDs Related Peptic Ulder in the Last Years but the Helicobacter pylori is Still Here; A 9.5 Years Experience.

V.E. Balatsos¹, V.C. Delis¹, A.C. Konstentinidis¹, P.P. Kasapidis¹, A.S. Hatzinikolaou¹, N.P. Skandalis¹, A. Archimandruis², ¹General Athens Hospital **C. Gennimatas**: Athens, Greece, **Department of Pathophysiology, Medical School University of Athens and Department of Gastroenterology: Athens, Greece

Background: It has been suggested that the incidence of Peptic Ulter (PU) is declining during the last years.

Aims: 1. To evaluate the incidence of non-NSAIDs related PUs in three periods through the last 9.5 years of application of *H. pylori* (Hp) eradication therapies. 2. To see the prevalence of Hp among them.

Patients-Methods: A computer search was made from May 1st 1990 through October 31st 1999 to find out all patients with endoscopically diagnosed for the first time PUs in our instruction; emergency endoscopies were also included. Patients who reported NSAIDs or aspirin intake, those who ingested caustic substances and patients with Crohn's were excluded. Three time periods were analysed. A: May 1 1990-December 31 1991 (20 months). B: May 1 1995- December 31 1996 (20 months). Clamary 1 1999- October 31 1999 (10 months) Gastric Ho colonization was documented by CLO test and/or histology (H&E, modified Giemsa). Results: These are shown in the table There is a progressive and

Results: These are shown in the table. There is a progressive and significant reduction (up to 50%) in the incidence of PUs (DUs and GUs). The Hp (+) cases do not differ in the three studied periods (90-92%).

The Hp (+) cases do not differ in the three studied periods (90-92%). Conclusions: I. There is a steady declaring invidence of non-NSAIDs related DUs and GUs during the studied period. 2. Hp colonization is constantly documented in 90-92% of the ulcers by the used methods. Thus, in spite of the significant decrease of PUs in the studied population, Hp remains the predominant factor in the pathogenesis of non-NSAIDs related PUs.

Incidence of PUs in each period of time (percentages in parentheses)

	Period A	Period B	Period C
Patients	7479	7475	2594
(*) PUs	904 (12)	680 (9)	161 (6)
Sex (M/F)	613/286	442/238	129/76
Age (range)	16-86	16-85	16-92
(**) DUs	588 (7.9)	461 (6.2)	97 (3.7)
(***) GUs	316 (4.2)	219 (2.9)	64 (2.4)
Hp (+) cases (%)	91	90	92

^{(*), (**), (***);} p < 0.0001

Xillth International Workshop on Gastroduodenal Pathology & Helicobacter pylori, 11-14 October 2000, Rome, Italy Gut 2000;47(Suppl I):A78

11/8] NSAIDs' Use Does not Affect H. pylori (HP) Eradication Rate in Patients with Duoedenal Ulcer (DU) or Erosive Duodenitis (ED) when Triple Therapy is Used.

S. Michopoulos, P. Tsibouris, A. Balta, I. Vougadiotis, M. Zissis, N. Kralios. Alexandra Hospital: Athens, Greece

NSAIDs' use could reduce the efficacy of eradication regimens in ouring

The aim of our study was to evaluate if HP eradication rate is affected by NSAID's use in patients with DU or ED, when a triple eradication regimen is used

Patients and Methods: 315 patients (220 DU-95 ED, mean age rations and memors: 319 patterns (22 on NSAIDs' treatment at least 3 times a week), all HP positive, received a 10 days cradication regimen with omeprazole 20mg bid, clandroomyen 500mg bid, assocycillia 19 bid Off those initially receiving NSAIDs' 57 continued NSAIDs' during cradication treatment (Group I), while 68 discontinued them (Group II). All patients initially not receiving NSAIDs' did not receive NSAIDs' during permanent adminy not receiving research and not receive research during eradication treatment (Group III, n=190). Endoscopy was performed 4-6 weeks after treatment completion. He eradication was verified by histology, CLO-test and ¹³C-tires breath test.

Stat: X2 test, t-test.

Stat: X2 -test, t-test, Result: 259 patients had a follow up endoscopy. 20 lost during follow-up, 5 discontinued treatment permanurely. Patients of Group III were younger. More smokers were included in group II. Intention to treat eradication rates were: Group I: 80.7% (CT 01.9-3.), Group III: 79.4% (CI 78.4-89)- 99-0.1. Per protocol eradication rates were: Group I: 83.7% (CI 78.4-89)- 99-0.1. Per protocol eradication rates were: Group I: 83.7% (CI 78.4-39)- p9-0.1. There was no difference in endication rates were: Group II: 89.8% (CI 85.3-94.3)- p>-0.1. There was no difference in endication rates server. difference in eradication rates among the 3 groups when patients with DU and ED or smokers and non-smokers were examined separately.

Conclusions: NSAIDs' use seems no to affect HP eradication rat when a triple regimen comprising omeprazole, amonycillin and clar-

XIIIth International Workshop on Gastroducdenal Pathology & Helicobacter pylori, 11-14 October 2000, Rome, Italy Gut 2000;47(Suppl I):A81

12/4 Development of Esophagitis after H. pylori Eradication: Impact of CagA status.

T. Rokkas², S.D. Ladas², C. Tnandafyllou², C. Liatsos¹, E. Petridou¹, G. Papatheodorou¹, A. Karamoris¹, S.A. Raptis², ¹401 Army Gen. Hospital University of Athens: Athens, Greece: ²University of Athens: Athens,

Background: There is evidence that Helicobacter pylori (H. pylori) eradication might predispose to reflux esophagitis. However, the role of CagA status in the development of esophagitis after H. pylori cradication

CagA status to the development of esophagitia after H. pylori endication has not been studied so far. The aim of this prospective study therefore was to examine the impact of CagA status in relation to the appearance of esophagitis after successful H. pylori meatment.

Methods: The study inculted 50 consecutive, successfully eradicated patients, without esophagitis at the time of H. pylori treatment [25 dundenal utoer (DI)) and 25 non-utoer (NIO), 30M, 20F, median age 41, 5ys, range 21–57). All patients underwent upper Gl endoscopy before and at 0, 6, 12, 18 and 24 months after eradication or when reflux symptoms content of purints endoscopy above a country. occurred. During endoscopy another and corpus biopsies were taken for gastness evaluation. The sum of the scores for acute [0-3 (0 = absent, 3 = gasmiss everely and chronic inflammation (0-3) comprised the cumulative gasmins score. CagA was determined by immunoblotting the sera from patients against H. pulvor antigens. The independent variables age, set, smoking alrohol intake, CagA status and gastness scores of antrum and corpus gastritis before H. pylori eradication were introduced in a logistic stepwise regression analysis with esophagitis during follow-up as the dependent

variative. Results: Prior to cradication, among the 50 H. pylori (+) patients 22 (44%) were CagA(+) and 28 (56%) were CagA(-). During follow-up 12/50 (24%) patients developed esophagitis of whom 11 (91.7%) were CagA(-) and 1 (8.3%) CagA(-) (p=0.0002), in the life-table analysis the estimated incidence of esophagitis within 24 months in CugA(+) patients was 50% (1/22) as opposed to 9.64% (1/28) in CagA(-) patients (p. < 0.0001, logrank test), Multiple logistic regression analysis showed that CagA(+) status (odds ratio 13.75, 95% Cl 1.4 - 134.53, p=0.0243) and severity of corpus gastritis before eradication (odds ratio 2.88, 95% CI 1.03 - 8.06, p=0.0436) were risk factors for the development of esophagitis after H. pylori eradication.

Conclusion: CagA(+) status and severity of corpus gastritis before H. pylori eradication significantly favor the development of esophagitis after successful H. pylori treatment.

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12/3* Reflux Cesophagitis Before and After Eradication of H. pylod in Patients with Duodenal Lilcer

G.J. Mantzaris, K. Petraki, A. Christidou, E. Chadio, P. Christoforidis, P. Amberiadis, E. Chiotakakou, P. Polyzou, G. Trantafyllou, Evangelismos Haspital: Athens General

Objective: Parients with duodenal ulcer (DU) may develop reflux co-sophagias (RO) after eradication of Hp. However, the prevalence of pre-existing RO and its outcome after eradication of Hp in DU parients have not been adequately studied. Outside clinical trials reflux symptoms are usually underestimated or overshadowed by the dominant uteer symptoms, in addition, a detailed and thorough description of the LOS area is usually omitted when the endoscopist is satisfied by the findings of an ulcerated offitted when the endoscopist is satisfied by the findings of an uncertaint dundersal folly, this makes entropercive similer surfixing. Thus, the aim of this prospective trial wat to extend previous reports (Gut 1998,41:A96) on the preventence of pur-ensisting RO in patients with active DU and its outcome after the prediction.

Methods: The LOS area was carefully examined and any abnormal find-

Methods: The LOS area was carefully examined and any abnormal findings were recorded in every dyspeptic patient undergoing endecopy but only patients with an active DU were empiled in this study. Oeophagitis was graded (0-3). Biopsies were taken from the annum, body and fundus and on both sides of the Z-line starting I cm proximal to the gastric rugae. His was sought by histology (Giennas, H&E), immunohistochemistry and CLO-tosts or gastric biopsire before and 10 weeks after completion of OACS00 for 10 days. Endecision of Rip was confirmed by UBT in the last 30 patients of the study. Follow up endoscopy with biopsics was performed 1 year later or whenever dysopotic symptoms recurred.

Restaits: 75 DU patients were enrolled in the study (45 males, 60 smokers, none regular NSAID user). All were infected by Hp. Thirty patients (49%) had concurrent RO gradel (ev22) or It (ev5) and were all smokers; of these, 25 patients (33%) had a small (ev20) or larger (ev5) inture larger hans bernia. BU patients with RO had usually distorted, oedernatous, obliterated disoletand bulls when compared with DU patients without RO. ACCS00 healed all ulcers and evadicated Hp in 56 patients inchading all

contensated choosens of our when compared with DI patients without RO.

ACCOO headed all liders and eradicated Hp in 56 patients including all 30 patients with pre-custing RO. However, recurrence of RO was seen 8-8mo after endication of Hp in 5 patients who before treatment had a large histup bernia and a grade II RO.

Discussion: A considerable proportion of patients with DU obliterating the disodenal bulb may have concurrent RO as a result of gestric outlet.

obstruction. This RO may easily escape or not be recorded during routine endoscopy. However, it is effectively treated by Hp tradication regimen and does not recur unless there is an underlying large histus bernis

XIIIth International Workshop on Gastroduodenal Pathology & Helicobacter pylori, 11-14 October 2000, Rome, Italy Gut 2000;47(Suppl I):A85

12/18 Time Trand for the Appearance of Esophagitis after H. pylori Eradication.

T. Rokkas¹, S.D. Ladas², C. Triandafyllou², S.A. Raptis², ¹401Army Gen. Hospital University of Athens: Athens, Greece; ²University of Athens: Athens, Greece

Successful Helicobacter pylori (H. pylori) treatment has been reported to predispose to the development of reflux esophagitis (RE). However, despite this evidence to date no attention has been paid to the time trend for the appearance of RE after H. pylori treatment. This information could be of

importance in dealing with patient management after H. pylori eradication.

The alm of this prospective study therefore was two fold; firstly, to examine the RE rate after H. pylori eradication and secontly to study the time trend for the appearance of RE

met trend for me appearance of Rh. Methods: 50 consecutive, successfully eradicated patients, without RE at the time of H. pylori treatment f25 duodenal ulcer (DU) and 25 non-ulcer (NU), 30M, 20F, median age 41.5 yrs, range 21-57) were followed for 24 months. All patients underwent upper Gl endoscopy before and at 0, 6, 12, 18 and 24 months after H. pylori eradication or when reflux symptoms occurred. The chi-square test for trend and the life table analysis were performed for calculating the incidence and time trend for RE appearance after H. pylori eradication. Patients were consored if the

and point was reached or if RE was noted at endoscopy.

Results: Among the 50 H. pylori (+) successfully treated patients, 1259 (24%) developed RE during the 24 month follow-up period. In 9/12 patients (75%), RE developed during the first year of the follow up at months 5, 6, 7, 9, 10, 11, 12 (respective percentages of patients without RE 98, 96, 92, 90, 88, 86, and 82%) as opposed to only 3/12(25%) patients (9 < 0.0001) in whom RE appeared during the second year of the followup at months 16, 17, 18 (respective percentages of patients without RE 89, 78 and 76%).

Conclusion: A substantial proportion of H. pylori successfully treated patients, develop RE and the time trend suggests an increased risk during the first year after H pylori eradication.

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12/14 Protongation of Omeprazole (O) Treatment after H. pylori (HP) Eradication influences the incidence of Ecophaghia.

8. Michopeulos¹, P. Tsibouris¹, A. Balta¹, M. Sotiropoulos¹, K. Petrski², G. Galzeopoulos¹, N. Kralios¹, ¹Alexandra Hospital Athens, Greece, ²Hippocration Hospital: Athens, Greece

The need for prolongation of antisecretory treatment after HP eradication

The store an process.

It disputable.

The aim of our study was to evaluate if prolongation of artisecretory treatment after successful eradication could influence the incidence of

exophagins.

Patients and methods: 181 patients with duodenal ulcer (DU) and 74 with motive duodenitis (ED), all positive for HP were randomly assaged to continue O 20mg agd for 7 (Group 1-85 patients), 21(H-85 patients) or 35 days (III-85 patients) respectively, after a 10 days regimen with O 20mg bid, clarithromycin 500mg bid, amonycilline 1g bid. Groups were comparable for sex, age simoking and bleeding at the entry Endoscopy was performed 3 months after treatment. HP andication was verified by histology. CLO-sex and ¹³C UBT. Esophagitis was graded according to the Savary-Muller.

Stat. X²-text, 5-text.

	E ₆	E ₁	1	Ag	NС	lm
Сітощо І	12	14	7	10	м	6
	12	10	7	6	57	6
Group III	8	22		18	50	4
г	>0.1		1		< 0.000	1

Ag aggravation of de novo appearance, NC: no change, Im improvement disappearance of esophagitis

Results: 242 patients had a follow up endoscopy (mean age 50.3±15 years, 140 men. 76 smokers). Intention to treat cradication rates were: Group 1 82.4% (Cl 74.1=90.6). II: 81.2% (Cl 72.4=89.7), III: 84.7% (Cl Group 1 62.4% (C.) 74.1–90.0). It of 12% (C. 12.6–85.7), In. 64.3% (C.) 76.9–92.5). p. 90.1. Pre-treatment (E₀) and post-treatment (E₃) esophaguis and changes in esophaguis status at a 3 month period after successful eradication are shown in the table.

eradication are shown in the tuble.

22:152 with DU and 2-62 with ED presented E₃ (p=0.002), 16:56 with bleeding at entrance endoscopy and 18:156 without bleeding also presented E₃ (p=0.05). Of those who did not eradicate HP, two patients of Group III presented ecophagins (p=0.1) both pre and post-treatment. Age, set smoking, histus herria, post-treatment gastons and commorbed diseases did not influence the incidence of E₃.

Conclusions 1) Prolongation of antisecretory treatment for 35 days could aggravate escophagitis 5 months after successful HP eradication. 2) DU and bleeding at entrance endoscopy could be considered as aggravating factors increasing the incidence of post-treatment esophagitis.

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15/19 H. pylod Infection in Common Variable Immunodeficiency Disease (CVIO).

G.J. Mantzaris, D. Chryssovergi, K. Petraki, D. Rontogianni, A. Christidou, E. Archavlis, I. Economidou, C. Papasteriadi, G. Triantafyllou. Ecangelismos Hospital: Athens, Grace

Objective: To study the prevalence of *H. pylori* infection (Hp) in CVID and gastric psthology in the presence or absence of Hp. Methods: This study was performed in 20 patients [11 females; mean age 15 (15-66) years] with newly diagnosed CVID but no detectable autoantibodies against parietal cells, intrinsic factor, gliadin or endomysiun. Patients with irritable bowel syndrome matched for age, gender, social class and social babits served as coursols. Patients underwent endoscopy with multiple biopiter from the duodenum and the gastric autrum, body and fundati. Hp was sought by CLO-tests, histology (Giernat) and immunolositrochemistry (rabbit (Eg atali-human Hp meAb, DAKO). Gastriist was graded for activity and severity (0-1, Houston system), Hp load (0-2), Lymphocytic infiltration was graded using the Issaeson's tool (0-6). Results: Twelve patients had gastric and/or intentinal nochilar lymphotic byperplasia. 15 had diffuse and 6 focal muossal crythema and 6 had atroptac gastrix rugges. Hp infection was diagnosed in 18 patients. Hp-patients Lad mill, chrones corpus-preforminant gastrific, without any mecoal arropty or intentinal necepilatia. Makin depletion was aminimal. A variably dentae Teel Predominant choicus inflammatory cell infiltrate was seen in

nerois and mini, narone corpus-precommants gatures, without any microsist anophy or internatal necessities. Mucin depletion was minimal. A variably dense T-cell predominant chouse inflammatory cell infiltrate was seen in the upper part of the microsa obliterating and distracting individual glands and crypts. Plasma cells were absent but primary lymphoid follicles were seen. The number of intra-epithelial tymphoyres (EEL) per 100 epithelial cells and the number of apoptotic bodies per 10 glands were significantly increased over Hg- control parients. This picture resembled gaster's cute graft-vertus-hort disease (GvHD). In Hg- patients a chronic pangastriris pattern with multifocal attorylys and areas of complete and incomplete intestinal metaplasta was seen. The muotos was infiltrated with chronic inflammatory mononclear cells. T cells were predominant and B cells or plasma cells were only rarely seen. The number of IELs and apoptone bodies was statistically level than in Hg- controls. Gastrins severity and activity scores were statistically lower but the Isaacson's score was higher than in controls. Entstricts with CvHD has preterior a pattern of inactive superficial gastrins in the anatural and a CvHD-like pattern in the body of the stomach. Discussion: Hg- patients with CvHD have mild gastrils resembling gastric actue UvHD. Hg infection at associated with more intental gastric arrival cutHD. Hg infection at associated with more intental gastric actue (UvHD) Hg infection at associated with more intental gastric actue.

XIIIth International Workshop on Gastroduodenal Pathology & Helicobacter pylori, 11-14 October 2000, Rome, Italy Gut 2000:47(Suppl I):A91

13/20 Incidence of Helicobacter pylori Infection in Patients with Rheumatic Diseases

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Objective: To evaluate the scropevvlence of Helicobacter pylori (Hp) infection in patients (pst) with rheumatic diseases.

Methods: Serum samples of 62 pts with rheumatoid arthrits (RA), 20 pts with systemic hapts enythematosus (SLE), 13 pts with seconegative spondylitis (SNS), 32 pts with osteoarthritis (OA) and 36 healthy volunteers (V) were measured for (gA and IgG antibodies against Hp by enzytte immunosassy, Positive were titres >>0 Ufml. Western blot was used as continuation. Pts had not received Hp eradication treatment, or sulphasalazition to gold for draftitis, in the past. Concurrent use of NSAIDs, steroith or antiheumatic drugs was recorded. Comperison and statistical sandysts in average IgA and IgO titers (M=mean±SEM) and incidence (%) between the subjects was performed using chi-test and student's t-test. Results: Comparison between RA pts and V, SLE pts and V, SNS pts and V and OA pts and V and between RA and OA pts revealed as shown in table: a greater incidence in OA than V for IgA (p=0,002) and IgO (p=0,018); a greater incidence in OA than V for IgA intodoies (p=0,002) a bigher average titer of IgA (p=0,003) in OA than V.

	RA 0=62	SLE 9-20	3NS 0=16	OA ==32	¥ m-36
[gA	34/6Z	7/20	7/18	17/32	6/36
Y	55.72	35	18.89	53.12	22.23
м	51.2 ±5.5	37.2±10	30.4 ± 6.3	50.1 ±7.7	30.3 ±4.5
l r G	41/62	9/20	11/18	19/32	15/36
%	66.12	45	61.11	59.37	41.67
M	71.0 ± 9.9	41.9 ± 10.3	44.5 ±9.1	59.0 ±9.3	42.Z ±8.6

Discussion: Patients with rheumatoid arthritis show a significantly Discussion: ratents with returnators arounds show a significantly higher Hp seropositivity and higher lates of IgA and IgG anabodies that volunteers. Patterns with custoarchards show significantly higher Hp seropositivity only for IgA antibodies. This data indicates a higher inculence of Hp infection in RA patients.

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15/35 Rabeprazole 7-days Vs Rabeprazole 10-days Triple Therapy in the Eradication of H.Pyporl Infection – A Randomized Study.

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Objective: To evaluate the efficacy and safety of two triple therapies based on rabeorazole (RAB).

Methods: Ninety-seven H. pylori positive patients (CLO-test,histology) (median age 48, range 18–79) with peptic ulcer (m-59) or non-ulcer dyspepsia (n-38) were randomized to receive RAB 400mg bid, Clarithromycin pepsia (2-16) were transcomized to receive Knot working out, Cantaromycini (CLI)500mg bid, and Amosycillin (AMO) 1gr bid for I week (Group A, m=49), or RAB 400 mg bid, CL 500mg bid and AMO 1gr bid for I days (Group B, m=48). H. pylori enadication was assessed 4 weeks after completion of treatment (by CLO-test and histology). Clarithromycin sensitivity tests were carried out in the cultured pre-treatment (66/97, 68%) H. pylori strains

Results: The regimen failed to eradiacate three (4.5%) H. pylori strains (one in Group A and two in Group B) which exhibited primary CL resistance. The eradication rates according to intention to treat analysis (ITT) were: 40/49(81.6%) in Group A and 40/48 (83.3%) in Group B, and according to per-protocol (PP)analysis: 44/49 (89.8%) in Group A and 43/48(89.6%) in Group B. Side effects in both groups were mild and no patient discontinued treatment due to adverse effects.

Discussion: We conclude that both (1-week vs 10-days) triple therapies based in rabeprazole proved equally effective and safe to eradicate Helicobacter pylori infection.

We also could observe that k of the Hp and Ss mixes are similar to that of Hp and statistically higher than the Ss one

Discussion: The CO2 rate constant allows the differentiation of Hp from the other urease producer bacterias that are present in the oral cavity. findings would allow the detection of Hp in the oral cavity in a faster and easier way and therefore may contribute to clarify the oral-oral mode of transmission of this infectior

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[17//] Cystic Fundic Gland Polyps (CFGP): Relation to H. pylori Infection and Familial Polyposis coli (FAP) Syndrome.

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Objective: CFGP are small sessile polyps of the secretory gastric mucesa which are usually found in middle-aged women. They are sporadic but can be associated with FAP, chronic returnent with proton purpl inhibitors (PPIs) but not Hp infection. This study aims at seeking any association between CFGP and Hp. FAP or sporadic colorectal adenomas. Methods: Between 1992 and 2000, 20 patients with CFGP were identified [(15 female), mean age 35 (range 25-72) years]. On endoscopy, hip-

Methods: Between 1992 and 2000, 20 patients with CFGP were identified [15 female), mean age 35 (range 25-72) years]. On emioscopy, biopsies were taken from the anturu, body and fundus for grading of gastritis (Houston score). Hp was sought by the means of histology, CLO-texts, and immunoshito-themistry. Larger CFGP were excised whereas biopsies were taken from smaller polyps. Positive and negative risk factors for notorrotal adenomas or cancer were recorded, including a family history, regular use of NSAIDs, hypercholsestrolaemia, a previous cholesystectomy, etc. Scrum gastrin levels were measured. Patients underwent total colonoscopy and any polyps found were excised and sent for histology.

Results: None of the patients was on chronic PPI treatment. None of the

Results. Note of the patients was on chronic PPI treatment. None of the excised CFGPs was dysplastic. He was detected in 14/20 (70%) parients. The majority of Hp+ patients showed a mild chronic active superficial antral predominant gastritis without arrophic. Elderly Hp+ patients had changes of atrophic gastritis without evidence of dysplasia. Gastrin levels were normal. No case of FAP was detected. Two solitary sessile proximal colonic adenomas were detected in 2 female patients, 45 and 52 years respectively, one had a family history of colorectal adenomas. No regression of any CFGP was noticed within 2.5 years following eradication of Hp in 10 natients.

Discussion: In this study CFGPs were sporadic. However, the fact that 2/20 patients had concurrent colonic adenomas raises an issue for association. No association was found with chronic PPI therapy. Contracy to other reports, the vast majority of our patients were infected by Hp to a degree similar to that reported in the general population of similar age in our country.

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P.141 REDUCED INCIDENCE OF THE NON-INSAIDS RELATED PEPTIC ULCER IN THE LAST YEARS BUT THE HELICOBACTER PYLORI IS STILL HERE:

A 9.5 YEARS EXPERIENCE

Vassibos Balascos, Vassibos Delis, Anastasios Konstantinidis, Panegious Kasepitis, Anastasios Hazinikolaou, Nikolaos Skandalis, Albanasios Archimandrius, Dept of Gastroenterology General Hospital "G.Gernimatas", Albena, Grecce

Background: It has been suggested that the incidence of Peptic Ulcer(PU) is declining turing the last years.

Alres: 1. To realisate the incidence of non-NSAIDs related PUs in three periods through the last 9.5 years of application of H pylori(Hp) eradication therapies. 2. To see the prevalence of Hp among them.

Patients/Methods: A computer search was made from May 1st 1990 through October 31st 1999 to find out all patients with endoscopically diagnosed for the first sine PUs in our institution; emergency endoscopies were also included. Patients who reported NSAIDs or asprint intake, those who ingested causies substances and patients with Croha's excluded. Three time periods were tanalysed. A: May 1 1990. December 31 1991 (20 months), B: May 1 1995. December 31 1996 (20 months). C: January 1 1999. October 31 1999 (10 months). Castric Hy colonization

was documented by CLO test and/or histology (H&E, modified Giensa).

Results: These are shown in the table. There is a progressive and significant reduction (up to 50%) in the incidence of PUs (DUs and GUs). The Hp (+) cases do not differ in the three studied periods(90-92%).

Incidence of PUs in each period of time [percentages in parentheses

	Period A	Period B	Period €	
Patients	7479	7475	2194	
(*) PUs	904 (12)	680 (9)	161 (6)	
Sex(MVF)	618/286	442/238	129/76	
Age(range)	16-86	16-85	16-92	
(**) DUs	588 (7.9)	461 (6.2)	97 (3.7)	
(***) GUa	316 (4.2)	219 (29)	64 (2.4)	
Hp (+) cases (%)	16	90	92	

(*), (**), (***); p<0.0001

Conclusions: I. There is a steady declining incidence of non-NSAIDs related BUs and GUs during the studied period. 2. Hp colorazation is constantly documented in 90-92% of the ulcers by the used methods. Thus, in spite of the asphiftcan decrease of PUs in the studied population. Hp remains the predominant factor in the pathogenesis of non-NSAIDs related PUs.

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01/05 MOLECULAR ANALYSIS OF S-CELL CLONALITY IN HELICOBACTER PYLORI GASTRITIS

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Background: Helicobacter pylori (Hp) gastritis is a risk factor for gastric mucosa associated lymphoid tissue (MALT) lymphoma. Clonal B-cell populations have been detected in a variable proportion (0-40%) of patients with Bro-asstritis, but their clinical significance is still necessini.

population have entreacted a variance proposed (0-0-0) of patients with Hygastritis, but their clinical significance is still uncertain.

Aim: To identify the presence of cloud B-cell population in Hygastrids and assess histological factors that may affect the development of B-cell clause.

Methods: Twenty-five patients (aged 19-79 years, mean 52, 13 males) with Hy-gastritis (H-E and modified Gierusa) were studied. Twenty Hy-negative dyspeptic subjects served as controls. Routinely fixed paraffilial embedded blocks of two artist and two corpus biopsies from patients and controls were analysed for B-cell clonality by a seminested polymerase chain reaction (PCR) using FRILA and FRILIA primers for amplification of the variable region of the immunoglobulin heavy chain gene (V-IgH gene). The histological findings were evaluated according to the Sydney classification system of gastrifs and the Wotherspoon-Isaacson (W-I) scoring system for gastrifs and the Wotherspoon-Isaacson (W-I) scoring

Results: Amplified DNA was obtained from all samples and revealed monoclonal or polyclonal PCR amplification panerns. Clonal bands were observed in 10 (2/8 W-I grade 1, 2/13 W-I grade 2, and 2/4 W-I grade 3 lesions) and polyclonal smears in 15 cases (6 W-I grade 1, 7 W-I grade 2 and 2 W-I grade 3). Four additional W-I grade 2 samples with clonal bands were associated with a background polyclonal smear and were not reproducible. Clonal bands were not recorded in samples from Hp negative commits.

Conclusion: PCR-detectable monoclonality was found in about 25% (6/25) of our Hp-gastritis patients, it is independent of the W-I score and cannot be taken as evidence of an existing neoplastic lesson.

8th United European Gastroenterology Week (UEGW) November 2000, Brussels, Gut 2000;47(Suppl III):A81

P.146 DIETARY HABITS IN PATIENTS WITH DUODENAL ULCER; A

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Alsa: To investigate the dietary, drinking and smoking habits in patients with active doodenal ulters(DI) as compared to healthy controls. Patients-methods: 100 consecutive patients (men-73, age: 19-34 y, mean ± SD = 48 ± 15) with endoscopically, for the first time, diagnosed DC. 100 clinically healthy people without past history of peptic electrostocially beauty people without past history of peptic electrostocially matched with DU patients with regard to set, age, and various socioeconomic parameters (income, education, area of residence, and number of rooms during the last 10 y) served as controls. We studied: 1. Dietary, drinking and smoking habits using suitable questionnaire; 71 kinds of food grouped in 9 canegories 1 were included 2. Obesity index (Ob) as estimated from the people's height and body weight 3. Hy status by serology (ELISA IgG). Conditional regression analysis was used for statistics. Odds Ramos (OR) were calculated after appropriate adjustments. Repatits: Prevalence of Hij was higher in DU patients (OR = 4.31, 95%CI = 1.859.93) p. 0.00006). No differences in the Hy status in relation to the studied socioeconomic factors were found in patients and controls. Smoking did not differ. Patients' height and body weight differed between DU and controls (OR = 4.99, 95%CI = 0.34-0.72, p < 0.001 and OR = 0.05, 9.78%CI = 0.34-0.31, p < 0.002 and OR = 9.000 and OR = 0.000 and OR = 0.000, OR = 9.19, 9.99%CI = 0.31-1.003. Coffee drinking did not differ. by and large, but significantly more "Oreck coffee" was consumed by patients (pso 0.04. OR 19.99. 9.99%CI = 1.16-2.19), in general, patients consumed significantly more spirits and controls more winz. Controls consumed significantly more spirits and controls more winz. Controls consumed significantly more spirits and controls more winz. Controls consumed significantly more spirits and controls more winz. Controls consumed significantly more spirits (OR = 1.29, p = 0.17), and temperate (OR = 0.91, p = 0.77) and tegenables (OR = 0.86, p = 0.001). Patients c

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P 170 IS THERE A RELATIONSHIP BETWEEN H.PYLORI AND BLEEDING, IN NSAIDS USER PATIENTS, WITH PEPTIC III CERT

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The role of H. pylori (H.p.) in bleeding ulcers in NSAIDs users remains controversial Aim: To investigate, prospectively, the role of H.p. in bleeding and non-bleeding peptic ulcers in NSAIDs users.

Pattents/method: Eight/uv patients who presented at the emergency room with upper GI bleeding and have been receiving NSAIDs during the last week (Group 1), as well as, 51 symptomatic, NSAIDs users (during the last week) (32 M/19 F, age (meant-SD) 49±16 (range 20-81) yrs), with endoscopically detected peptic ulcer (Group 2), were included in the study between March 1998 and September 1999. H. p. stants has been evaluated by serology, rapid ureast test and histology. The distribution of ulcers (gastric, duodenal), the type of the NSAIDs (aspirin, non-aspirin), smoking and alcohol consumption have been recorded.

Results in group 1, duodenal ulper was detected in 29 (34 %) yts, gastric

Results: in group 1, duodenal ulors was detected in 29 (34 %) pts, gustric ulors in 56 (66 %) pts, 47 (55 %) pts reported aspirin consumption and 34 (40%) pts presented with dyspeptic symptoms before bleeding. In group 2, duodenal ulors was detected in 27 (53 %) pts, gastric ulors in 24 (47 %) pts, 26 (51 %) pts reported aspirin consumption. H.p. was positive in 60 (71%) pts of group 1 versus 25 (49%) pts of group 2 (p= 0,01). In duodenal ulors patients H.p. positivity was significantly related to bleeding (2229 pts vs 1327, pp.(63)), in gastric ulors pts H.p. was frequently positive in bleeders though this observation did not reach statistical significance (38/56 pts vs 12/24pts, p=ns). The type of the NSAIDs, smoking and alcobel consumption were neither related to bleeding pt H.p. status.

Conclusions: A severe complication such as bleeding in NSAIDs users is significantly correlated with H.p. status.

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P.181 EFFICACY OF HELICOBACTER PYLORI ERADICATION
REGIMENS IN FUNCTIONAL DYSPEPSIA – COMPARISON
WITH PEPTIC ULCER DISEASE

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H. pylori (HP) infection is often diagnosed in patients with functional dyspepsia (FD) or non-tiker dyspepsia. The aim of this retrospective study was to report any differences in HP gradication rate between patients with and without endoscopic findings using various treatment regimens. Methods: Among 248 patients with HP infection (F-92, M:156 with

Methods: Among 248 pasients with HP infection (F.92, M:156 with mean age 52.5 and range:20-79 yrs) 106 (group A; F:56, M:50 with mean age 51.9) had FD with normal endoscopy or minimal endoscopic findings and 142 (group B; F:61,M:81 with mean age 52.2 yrs) had peptic ulcer of erosive gastroduodentitis. Regimens were based in either proton pump inhibitor (PFI) or ransiadine bistmouth citrate (R82C) in combination with two antibiotics from: clarithromycin(250 or 500mg), amosticillin(12), terracycline-HCI(500mg), metronidazole(500mg) and hindazole(500mg), all given bid for 1 week. Endoscopy was repeated 4 weeks after the end of the treatment and HP eradication was considered successful if both rapid urease test and histology from antrum and companies. Results: There were no significant differences between the 2 groups

Results: There were no significant differences between the 2 groups, with respect to age, gender, alcohol and NSAID's consumption; however, patients in group B were more likely to be smokers(p<0.001). HP was eradicated in 195/248 patients(78.6% with 95% CTs 73.5%-83.7%). Eradication rate was higher in group B compared to group A(31.7% vs 73.6%) but the difference was not significant (x² test; p>0.05). Moreover, there was no significant (x² test; p>0.05). Moreover, there was no significant difference in HP eradication rate between patients in the 2 groups restated either with a PPI or a RBC based regime.

Conclusion: Patients with functional dyspepsia appear to respond equally successfully to HP eradication therapies compared to patients with peptic older disease.

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P.286 SYMPTOMS FROM THE DIGESTIVE SYSTEM AND HELICOBACTER PYLORI INFECTION IN MOSPITAL WORKERS

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The aim of this study was to compare the incidence of various symptoms from the digestive system in healthy bospital workers positive or negative for Helicobacter pylori (Rp).

Subjects and Methods: 432 healthy employees of our hospital (nurses and members of the administrative staff) completed a special questionname concerning various symptoms mainly from the digestive system. Information was also obtained concerning rungical operations and chronic diseases involving various systems. The Hip positivity was confirmed by estimation of an IgG antibody in the serion. All data were entered on a special statistical package and were analyzed using parametric and non-parametric tests.

Results: Statistically significant differences between positive and negative subjects were observed for the following variables: reflux symptoms (X2=6.8, d=1, p<0.05) entronic disorders for containing (X2=3.4 6d=1, p<0.05) ethronic disorders of other systems excluding digestive (X2=8.99), d=1, p<0.003) and history of "peptic ulcer" and l or "gastnes" (X2=1.87, d=1, p<0.003). Marriage people had stetistically significantly more chances to acquire the infection (X2=4.07, d=1, p<0.04) than the single persons. It was of interest that the consumption of Greek coffee was significantly related to Hp infection (X2=6.06, d=2, p<0.05). Various other parametric variables such as years of smoking, number of cigarettes smoked per day, alcohol consumption and number of bowel movements per day, were not statistically related to Hp infection.

Conclusion: Infection by Hp in hospital workers is significantly related to some symptoms from the upper GI tract as well as with chronic disorders from other organs or systems.

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P.297 FACTORS INFLUENCING THE SEROCONVERSION OF THE PREVIOUSLY HELICOBACTER PYLORI NEGATIVE MOSPITAL WORKERS

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Factors influencing the seroconversion of previously negative for Hehicobacter pyton (Hp) infection groups of the normal population are unknown.

The aim of this study was to provide information concerning the influence of various epidemiological and clinical parameters on the transformation from serum negative to serum positive for Hp hospital workers (a well-known group of people with increased chance of acquiring Hp infection).

Subjects and Methods: Out of 437 hospital workers studied on 1994 for Hp infection, 84 (19.2%) initially negative for Hp infection became positive after 4 years of follow-up (1998). A large number of epidemiological and clinical parameters (55 non-parametric and 14 parametric variables) were studied on 1994 and in the same group of persons on 1998, in order to find-out those having statistical significance. The analysis of the results was done using a special statistical parkets.

was done using a special statistical package. Results: The only clinical symptom which was found to have statistical significance was abdominal bloating and dietetic restrictions, which were followed by the subjects themselves ($X_2 = 3.309$, df=1, P < 0.05). Other non-parametric variables such as sex, educational level, marriage, smoking, alcohol and coffee consumption, surgery for various reasons, and chronic gastrointistinal disorders, were not significant. The ANOVA analysis for various parametric variables such as age, number of brothers and sisters, number of cigarettes smoked per day and number of bowel movements per day were no statistically significant.

Conclusion: Abdominal bloating and dietetic restrictions were the only factors predicting positivity for Hp over time. Further studies, in other groups of the normal population are needed in order to find out possible predictive factors for Hp positivity.

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P.318 PZ7KIP1 EXPRESSION IN HELICOBACTER PYLORY GASTRITIS AND INTESTINAL METAPLASIA

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Alm: The study of p27Kip1 expression by human gasmic epithelial cells in Helicobacter pylon (Hp) gastribs before and after cradication of the microorganism. The expression of p27Kip1 in intestinal metaplasia (IM) was also studied.

Patients and methods: a 25 patients, 21Hp(+) without IM and 4Hp(-). All patients were endoscoped for the evaluation of dyspeptic symptoms. 1771 had duodenat ulter [DU], 171 gastrio ultex (GO) and 371 mixed lesions (DU+GU). Patients were endoscoped again, after the administration of triple anti-Hp therapy, in 116±94. b. 5 Hp(+) patients with IM Biopsies were taken from anteum and comps (anterior-posterior wall) for CLO test and histologic evaluation of gastritis (Sydney classification). The unmamohistochemical studies were performed on paraffin-embedded tissue sections with a mouse anti-human p27 antibody (DAKO); quantitative evaluation (percentage of positive cells) according to three distinct zones was done (20ne 1=surface-upper 1/3 of the pit, zone 2=the rest 2/3 of the pit, zone 2=the rest 2/3 of the pit, zone 3=the rest 2/3 of the pit, zone 2=the rest 2/3 of the zone 2/4 of the

Results: a. Normal mucosa: p27 is expressed by few cells (0-2/ptt). in zone 2 (problemation zone). No expression was found on surface and glandular epithelium (zones 1,3). A lot of p27(+) hyprhocytes in lamina propria and in the cornex of lympoid follicles (when present) were detected; no expression by lymphocytes in the germinal center. b. Hp gastritis: Increase, not statistically significant, of the p27(+) epithelial cells in zone 2; no expression in zones 1,3. c. After eradication: p27 expression quantitatively and sperially almost like normal emosas d. Intestinal metaplasia: Significant (Mann Whitney, p<0.05) increase of p27(+) epithelial cells in zone 2 as compared with normal and Hp(+) without IM mucosa. Conclusion: The terminal differentiated cells of the surface epithelium

Conclusion: The terminal differentiated cells of the surface epithetium do not express p27Kip1. The relative increase of positive cells during inframmation and the significant increase of p27 expression in Hp(+) DM may represent a defensive mechanism of gastric mucosa against Hp infection.

8th United European Gastroenterology Week (UEGW) November 2000, Brussels, Gut 2000;47(Suppl III):A116

P.348 EVALUATION OF RAPID, NEW TEST FOR DETECTING SERUM ANTIBODIES TO HELICOBACTER PYLORI

Spiros Ladas ¹, <u>Ioannis Varzakakos</u> ², Helen Malamou ³, Sodrios Georgopoulos ³, Georgia Giora ¹, Ioannis Robotis ¹, Konstantinos Triantafyllou ¹, Sotinios Raptis ¹, ¹ Gastroenterology Unit, 2nd Dept. of Internati Medicine, Evangellimos Hospital, Athens University, Athens, Greece, ² Department of Clinical Microbiology, Perueli Children ¹s Hospital, Athens. Greece

Background. Rapid one step, reliable, inexpensive serum tests are needed for scrodiagnosis of H. pylori infection. We have evaluated the performance characteristics of the new TestPack Plus H. pylori test (Abbott Laboratories), which is a one minute qualitative test for the detection of antibodies to M. pylori in serum.

Methods, in a prospective study 130 dyspeptics and patients with upper GI bleeding were studied. Patients were defined H, pylori (+) if two out of three reference tests (histology, rapid urease test, Gram staining of biopsy smears) were positive and H, pylori (-) if all three tests were negative. The results of TestPack Plus were compared with those of commercially available ELISA kits detecting IgG H, pylori serum antibodies (Pyloriset, Orion, Milenia H, pylori, DPC).

Results. Sowin patients had only one positive our of three reference tests and were excluded. Out of 123 patients (78 males, 45 females, 50, 17-35 years old) 95 were defined H. pylori (+) and 28 H. pylori (-) by the gold standard. Performance characteristics of the anabody tests studied as compared with the gold standard are shown in the table below.

	Sensitivity	Specificity	PPV	NPV	ODA
TestPace	65	75	92	60	8.3
Pylonser	92	82	95	74	89
Millenia	94	72	92	76	90

Conclusions. The sensitivity and specificity of TestPack Plus one step serum test are lower as compared to those of serum ELISA. However, its high positive predictive value makes it a valuable tool for in-laboratory screening purposes. 8th United European Gastroenterology Week (UEGW) November 2000, Brussels, Gut 2000:47(Suppl III):A115

P.344 DIAGNOSIS OF HELICOBACTER PYLORI INFECTION WITH A NEW HON-INVASIVE STOOL ASSAY BEFORE AND AFTER ERADICATION TREATMENT

Apostolos Giontzis¹, Stavroula Smilakou², Dimitris Kourtessas¹, Michalis Tzivras¹, Athina Avlami², Panagiotis Davaris³, Athanasios Archimandrinis¹, ¹University of Athens, Medical School, Dept of Pathophysiology, Castroenterology Section, Athens, Greece; ²Dept of Microbiology, ¹Lathon General Hospital, Athens, Greece; ¹University of Athens, Medical School, Dept of Pathology, Athens, Greece

Background: It has been suggested that a new H pyloni/Hoistool antigen EIA(HpSA Premier Platinum, Meridian Diagnostics, Cincinnati, USA)is reliable, easy to perform tool to diagnose Hp infection. However, after eradication of Ho the results are controversial. Aim: To assess the accuracy of this stool assay in diagnosing Hp infection before and after eradication, in comparison with the 2 mostly used in practice methods i.e. CLO test and histology. Patients-Methods:Two groups of patients with dyspepsia with and without uker were prospectively studied. Group A:43 consecutive adult patients who were examined for the first time; exclusion criteria: any trearment for Hp previously, any antibiotic in the previous 6 weeks, active GI bleeding, current treatment with corticosteroids or NSAIDs, with PPI or bismuth containing compounds during the previous 3 months or previous gastric surgery. Group B: 28 adult patients with no gastric operation or active GI bleeding who completed an eradication treatment and had not received PPIs. H2RA, bismuth salts, antibiotics, corticosteroids, NSAIDs for the last month, Patients were endoscoped and 4 biopsies were taken (2 anorum, 2 corpus) for histology (H&E, Giernsa stain)and CLO test: patients were considered Hp(+)if either test was positive; both needed to be negative for the patient to be negative. Smool samples were collected during the first 4 days after endoscopy before any treatment, and examined by the HpSA EIA (450 nm spectrophotometry, cut-off <0.140); results were interpreted blindly. Results: Group A: Sensitivity 89%, Specificity 100%, PPV 100%, NPV 67%. Group B: Sensitivity 30%, Specificity 100%, PPV 100%, NPV 72%, Conclusion: HpSA is a reliable test in diagnosing Hp infection in patients who have not received Hp eradication treatment. Though highly specific, HoSA does not seem a sensitive test to confirm Hp eradication.

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P.349 EVALUATION OF A NEW UREASE TEST FOR THE DETECTION OF HELICOBACTER PYLORI INFECTION

Spiros Ladas¹, Ioannis Robotis¹, Konstantinos Triantafylkou¹, Panagiota Kitsanta², Georgia Giota³, Sotirios Georgopoulos¹, Charis Spiliadi², Sotirios Rapis¹, ¹ Gastroenterology Unit, Ind Department of Internal Medicine, Athens University, Athens, Greece; ² Pathology Department, Evangelismos Hospital, Athens, Greece

Background, Rapid urease tests are often used during upper gastrointesunal endoscopy to detect Helicobacter pylori infection.

Aims. We have evaluated the performance characteristics of a new, unex-soaked paper with graded chromatic index (Ponto text) and compared it with a urea-gel with chromatic index (CLO test). Both tests are relied on the color change, due to the Helicobacter ovion urease production.

the color change, due to the Helicobacter pylori urease production.

Methods. We studied 103 consecutive in and out patients (61 males and
42 females, 19-85 years old) referred for upper gastrointestinal endoscopy.
Twenty-five patients (24%) had upper gastrointestinal hemorrhage and
53 (34%) were on proton pump mibitor therapy. During gastroscopy 3
biopsies obtained from the antral mucosa and used for aistology and urease
tests (CLO and Protot). Rapid urease test results were examined at 30-min intervals for two hours.

Results. The two test results are presented at the table below.

	Sens	Spec	56A	NPV	ODA
Pronto (36 min)	48%*	100%	100%	48%	65%
CLO (30 min)	10%	100%	100%	% 35%	40%
Prooto (120 min)	65%#	100%	#001	59%	77
CLO (120 min)	62%4	100%	100%	57%	75%

Petients that had not upper gasarointestinal hemorrhage and those not taking antiscretory therapy and had Pronto and CLO sensitivity of 19% and 76% respectively at 120 min. There was a linear correlation of the estimated Helicobacter pylori colonization density of the annual mucosa between histology and Pronto color grade results (y=0.12+0.8x, p<

Conclusions. Pronto and CLO test results are comparable at two hours. However, Pronto is cheaper than the CLO test and gives a positive result at 30 min in 48% of patients, offering a more rapid diagnosis. It also provides a semiquantitative estimation of Helicobacter pylori colonization density of the annul mucoss.

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P.353 IS THE INTAKE OF SECOND SAMPLE OF 13° UREA BREATH TEST IN 20 MINUTES SHITLES FEED WONTON THE ROYS OF INFECTION STATUS?

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¹³C Urea breath test (UBT) is one of the best methods for the diagnosis of H Pylori infection. Basal breath samples and samples in 30 minutes. after trea intake, are usually obtained. The elimination of the time of the second sample intake in 20 minutes would have the advantages of higher simplicity and speed.

Aim: To lest the efficacy of UBT for H.Pylori infection, when second sample obtained in 20 minutes, compared to the results taken in 30 minutes in the same nationis.

Methods: UBT was performed in 164 consecutive patients (mean age: 47.29±13,47, 67 males, 97 women), 64% offer H.Pylon eradication therapy administration. Basal samples and samples at 20 and 30 minutes after taking 100mg of urea labeled with 13C, were obtained in each patient. A citing acid solution was used prior to the urea intake. All gas samples were analyzed for excess 13C02/12C02 ratio, which was expressed as dies, d

UBT (DOB) being considered positive when >4%.

Results:32.8% of the patients showed H.Pylori infection in both samples in 20 and 30 minutes. The study showed a 100% concordance between the two samples in 20 and 30 minutes. Mean values (±SD) of dUBT in 20 and 30 minutes in potients with positive results in 30 minutes gas sample, were respectively 16,9070±9,0027 and 20,7045±11,3806.

Conclusion: When performing 13 C-urea breath test, it seems sufficient to obtain second sample at 20 minutes, which further simplifies the diagnostic method.

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P.373 DOES GASTRITIS AFTER H. PYLORI ERADICATION IN PATIENTS WITH DUODENAL ULCER CORRELATE WITH DYSPEPTIC SYMPTOMS?

Konstantinos Patikos, Konstantinos Triantafyllou, Maria Tzouvala, Maria Mytonaki, Vassileios Xourgias, Demetrios Karamanolis. "Tzaneion" General Hospital, Piraeus, Greece

Gastroesophogeal reflux disease (GERD) symptoms after H. pylon (H.p.) eradication, in patients with duodenal ulcer (DU), is a known dehate. Dyspeptic symptoms after eradication remain under investigation.

Aim: To evaluate the development of dyspeptic symptoms in patients with DU after H.p. eradication and their correlation with the histologic features of gastinus.

Methods: 93 H.p. (+) DU consecutive patients (72 M/ 21 F. age (mean) 55 (37-77) yrs) in whom H.p. was eradicated were enrolled in the study. All patients, underwent endoscopy before and I month after the end of the treatment and none of them had reflux esophagitis. Two biopsies from gasine antrom and two from gasaric corpus were obtained at each endoscopy. H.py'ori status was evaluated with CLO-test and histology Each biopsy specimen was evaluated according to Sydney classification At the end of the treatment all patients entered follow-up phase with visits every 3 months. Upper GI symptoms (heartburn, regurgitation, epigastric pain, nausea, vornieng, early suriety, postprandial fullness) were assessed pre-entry and at every visit using a fourth graded scale. None of the patients

had reflux or dysmoulty-like symptoms at the pre-entry assessment.

Results: Mean period of follow-up was 35 (25-44 months: 60/93 (64-5%) pix developed symptoms during follow-up. The cumulative mean symptoms-free interval was 25 (95% Cf. 22-27) months. Dysmoultry-like symptoms (post-prandial fullness, early saucty) developed at 35 (38,7%) pts and the cumulative mean dysmouthry-like symptom-free interval was 30 (95% CI; 27-33) months. Heartburn and/or regurgitation developed at 42/93 (45.2%) pis and the cumulative mean reflux symptoms free interval was 29 (95% CI: 25-32) months. The time of presentation of GERD symptoms was not correlated with their seventy. On the contrary, moderate dysmotility-like symptoms were developed earlier than mild one [moderate / mild; 9 (95% CI: 7-10) / 13 (95% CI: 12-15), log rank 15,07, p= 0,001]. The degree of gastrius post-treatment was significantly lower in patients who developed symptoms [1.02 \pm 0.18 vs 1.48 \pm 0.21 (mean \pm SE), p< 0.05] but it was not correlated with the development of specific symptoms (GERD vs dysmotility-like 1,12±0,16 vs 1,01±0,12, p=ns). There was no correlation between other histologic characteristics and the development of symptoms

Conclusions: About half of patients with H.p. (+) duodenal alicer seem to develop reflux or dysmotility-like symptoms after eradication of the H. pytori and this probably correlated with the decline of the degree of itis in the early post-eradicated period.

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P.375 PREVALENCE OF REFLUX DESOPHAGITIS IN PATIENTS WITH HELICOBACTER PYLORI INFECTION

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Introductions Increased prevalence of oesophagitis has been reported after eradication of Helicobacter Pytori (HP). The aim of this study was to examine the relationship between HP infection and reflux resophagius before and after eradication treatment.

Methods: We retruspectively studied 241 consecutive patients (102 M-139 FM) with HP infection, during the period among 1994-1999. The di-

agnosis was established by histological examination of samples taken from gastric antrum and corpus. The patients divided in three groups according to the endoscopical findings. Durdenal ulter (group A) was diagnosed in 147pts (60.9%), oesophagins (group B) in 38pts (15.7%) and other diseases or the endoscopy was normal (group C) in 56pts (23.2%). After erodication therapy the patients underwent gastrointestinal endoscopy and the incidence of reflux oesophagias in each group was recorded. Results: After eradication therapy 189pts (78.4%) were HP nega-

tive (121pts of group A, 29pts of group B and 39pts of group C). Post therapy ocsophagitts was found in 5pts of group A (4.1%), in 4pts of group B (13.7%) and in Ips of group C (2.5%).

	HP positive	Eradication	Post eradication ectophagitis
Group A	147 (60.9%)	121 (82.3%)	5 (4.1%)
Group B	38 (15.7%)	29 (76.3%)	4 (13.7%)
Group C	56 (19.3%)	39 (69,6%)	1 (2.5%)

Conclusions: The results of our study indicate that peptic ulcer disease is closely associated with HP infection and that there is no significant difference in HP prevalence between parients with reflux oesophagins and those with other diseases or with normal endoscopic findings. They do not also support the hypothesis that HP eradication therapy has a predictive role in the manifestation of gastroesophageal reflux dise

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P.387 HELICOBACTER PYLORI INFECTION (Np-I) AND GLAUCOMA (GLA)

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Objective: To determine the frequency of Hp-I in GLA patients and in

Design: Prospective, non randomized, comparative study

Patients and Methods: 41 GLA patients (32 with chronic simple-open angle glaucoma (CSOA-GLA) and 9 with pseudo-exfoliative glaucoma (PE-GLA)] and 30 age matched controls were investigated. Upper gastrointestinal endoscopy was performed to evaluate macroscopic abnormalities. and gastric mucosal biopsy specimens were obtained for the presence of Hp-I tested by rapid urease slide test (CLO test) and Crezyl fast violet and/or Oiemsa staining. The presence of gastrids was classified in accordance with the Sydney system using hematoxylin and eosin stam. In addition, intestinal metaplasia was evaluated with Alcian blue stain. Saliva samples were also tested by CLO. Serum was analyzed for the presence of Hp specific IgG antibodies by ELISA.

Results: In 87.8% of the GLA patients and in 46.7% of the controls Hp-I was confirmed by the presence of Hp bacteria histologically (odds ratio 8.22, x2×14.075, P=0.0002). Hp was detected by trease test (a) in the gastric mucosa in 73.2% of the GLA patients and 46.7% of the controls (P=0.02), and (b) in the saliva in 41.5% of the GLA patients and 30% of the controls (P>0.05). Sixty-eight percent of the GLA patients and 30 % of the controls were sempositive for Hp (P=0.002). When compared with controls, GLA patients exhibited less often endoscopic normal appearance of gastric mucosa (P=0.01), and more often annul gastrios (P=0.0004) or peptic ulter disease (P=0.01). Histologic grade 3 gastritis was only observed in the GLA patients (P=0.03).

Conclusions: Hp-I seems to be related to GLA. If a causal link between Hp-I and GLA is confirmed this may have a major impact on the pathophysiology and management of GLA.

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P.409 MIC. OF RABEPRAZOLE, A RECENTLY DEVELOPED PROTON PUMP INHIBITOR, AND OMEPRAZOLE, AGAINST HELICOBACTER PYLORI

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Several studies have shown that the proton pump inhibitors (PPIs) of the benzimidazole type (omeprazole, lansoprazole, pantoprazole) exert anabacterial in vitro activity against Helicobacter pylori (H. pylori). However, few in vitro data exist on Rabeprazole, the newest PPL

The aim of this study therefore, was firstly, to compare rabeprazole MICs against H. pylori with those of omegrazole and secondly, to examine whether these MICs were influenced by H. pylori susceptibility or resistance towards commonly used antibiotics for H. pylori eradication such as metromidazole, clarithromycia and amoxycillin.

Material and Methods: Fifty H. pylori strains were tested. All strains vere recent clinical isolates from different patients with chronic gastritis and/or peptic ulcer. In addition one reference strain, H. pylori CCUG38771, was also included in the study. For each component examined the MIC₅₀ (the MIC at which 50% of strains were inhibited) and MiC₅₀ (the MIC at which 90% of strains were inhibited) were determined by agar dilution

Results: MICs (µg/mL) for omeprazole were within the range of 32-128 with MIC50 at 32 and MIC50 at 64. The respective values for raheprazole were markedly lower (range 4-16, MIC₅₀ 4 and MIC₅₀ 16). H. pylori resistance percentages for metrouridazole, clarithromycia and amoxycillin vere 45%, 9.8% and 0% respectively (E-test). Antibiotic resistance did not influence MICs of either PPI tested.

Conclusion: Rabeprazole? the newest PPI, is more effective than omeprazole in vitro against H. pylori clinical isolates and this effectiveness is not influenced by H. pylori resistance to commonly used antibiotics for H. pylori eradication.

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P 400 RANITIOINE BISMUTH CITRATE BASED REGIMENS FOR HELICOBACTER PYLORI ERADICATION, WHICH IS THE OPTIMAL TREATMENT DURATION AND ANTIBIOTICS COMBINATION?

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H. pylori (HP) eradication therapies based on rantudine bismuth currate (RBC) have recently been introduced in clinical practice. The aim of this study was to compare the efficacy of 2-week vs 4-week regimens with RBC in combination with 2 antibiotics during the 1st week.

Methods: RH patients with HP infection (F: \$1, M: 53 with mean age 51.5 and range: 22-79 yrs) were offered 4 enudication regimens, group A (n=27) RBC 400mg bid for 2 weeks plus clanthromycin (CLA) 500mg and metronidazole (MET) 500mg bid for one week, group B (n=23) RBC 400mg hid for 2 weeks plus HCi-tetracycline (TET) 500mg and MET 500mg bid for one week, group C (n=27) RBC 400mg bid for 4 weeks plus CLA 500mg and MET 500mg bid for one week and group D (n=27) RBC 400mg bid for 4 weeks plus TET 500mg and MET 500mg bid for one week. In all patients endoscopy was repeated one month after cessation of treatment and eradication was considered successful if both rapid urease test and histology were negative.

Results: HP was eradicated overall in 85/104 pts (81.7% with 95% CI's 74.2%-89.3%) while symptoms improved in 72.5%. The 4 groups were comparable with respect to age, gender, smoking, alcohol and NSAID's consumption and peptic ulcer prevalence. HP eradication rates were 92.6% (75.7-99), 60.8% (38.5-80.3), 88.9% (70.8-97.6) and 81.5% (61.9-93.7) in groups A.B.C. and D. respectively. Eradication rate was significantly lower in group B patients compared to groups A.C and D (x test; p=0.021). There were no significant differences between groups concerning ulcer healing, resolution of symptoms and side effects

Conclusions: 1) A 2-week regimen with RBC combined with CLA and MET during the 1st week is highly efficacious in HP eradication but substitution of CLA with TET reduces efficacy significantly. 2) Both 4-week regimens with RBC achieve high eradication rates regardless the antibiotics combination used in this study.

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P.428 EFFICACY AND SAFETY OF THREE TRIPLE'-DRUG REGIMENS IN H.PYLORI ERADICATION - FORERUNNING ANNOUNCEMENT

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Background: There are many drug regimens of H.p. eradication. Several studies try to compare the efficacy and safety of these regimens.

Aim: To show the effectiveness and safety of the three ten-days 'triple' drug regimens in H.pylori cradication.

Methods: 134 outpatients, 63 men and 71 women, aged 18-75 years, were subjected to endoscopy for upper gastrointestinal symptoms. The presence of R.p. infection was estimated by CLO test and histological examination (modified Giernsa stain, H-E). All patients were assigned to three different triple-drug regimens of H.p. eradication by simple blind 'haphazard' randomization; amoxycillin 1gr bid, clarithromycin 500 mg bid and omegrazole 20 mg bid(group A: 40 patients) or lansoprazole 30 mg bid(group B:34 patients) or salt ranitidine-bismouth 400 mg bid(group C:29 patients)were given for ten days. The 1st follow up was done after 60-70 days.

Results: 103 patients were checked again up to now matched to age, sex, alcohol reception and smoking. H.p. eradication was achieved in group A in 31 pts (77,5%), in group B in 23 pts (67,6%) and in group C in 22 pts (75,8%). Side effects (epigastric pain, diarrhea, vomiting etc) were observed in 3 pts of group A, in 2 pts of group B and in 6 pts of group C.

In group A, 1 of the pt stopped therapy on the 9th day but H.p. was eradicated while the other 2 pts continued therapy. In group B, 1 of the pt stopped therapy on the 7th day but H.p. was eradicated while the other pt continued therapy. In group C, 2 of them continued therapy, 2 were given another regimen of H.p. eradication, I stopped therapy on the 7th day but H.p. was eradicated and 1 pt withdrew due to side effects.

Conclusions: From the forerunning results of our study, the giving of the three 'triple' regimens of H.pylori eradication is satisfactory in controlling the infection of H.p., Perhaps, the side effects of group C in comparison with the other two groups constitute a cautions factor in providing the drug

IS ACID SUPPRESSION EFFICACIOUS IN NON-ULCER DYSPEPSIA?

A double-blind, randomized, controlled trial with omeprazole

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1. Department of Medicine, University of Sydney, Nepean Hospital, Penrith, Australia 2 International study group

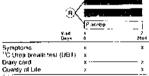
Background

The officery of antisecretory therapy in non-vicer dyspecsia (NUI) has been equivocal based on thats of H₂ research antiagonsts. The therapeutic place of protor pump chabbas (PPIIs) in NUID is unknown. While NUID subgroups have been proposed, their childs relevance have been questioned. It has been themsed that #1 pyloripositive NUD aspects may respond best to PPI's pecause of acid dysregulation

To evaluate the efficacy of the PPI inmediazole in patients with in NJD subgroups and in Hill pylon infected and an elected cases

Methods

The patients were repruited by family physicians (38) and gostroentero og sts (*C1) and were treated with omoprazote 20 or 40 mg once daily (on) or placebo for 4 weeks



Study design

NUO pai enis hetween 18 and 80 years with at least a months. nistory of dyspeptic symptoms were included. Persistent or recurrent epigastric painto scomfort and normal findings at uprecurrent epigast, coanto scomot and rotata manifesta op-per encoscopy were required. We excluded beliefst with a history of PulD or GERO or any exophageation gastric surgery as well as patients with heartburnfreguigitation (without opigastic component) or BS

ASSESSMENTS

Epigastric pain/discomfort

investigators interview 4 graded Likert scale (none mild, modorate severe). Recorded daily on diany cards (absent or orosent) during the whore study period. Treatment success. nain efficacy variable) = no symptoms at 4 weeks during last 3 days

Helicobacter pylori

At entry, a standard sed UBT was obtained. The result of the test was kept bland throughout the study

<u>Dyspectal subgroups</u>
Patronis ranked their most bothersome symptom from a list of specific dyspectic symptoms. Dyspectals subgroups were based on this evaluation

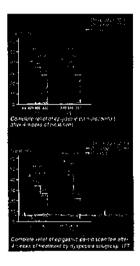
- "(Reer-like" epigastric paid
- Toyanotrilly-like basating, belching, early satiety, postprandiat fullness, nausea, llatus
 "Refunctaco" heartburn/regungitation

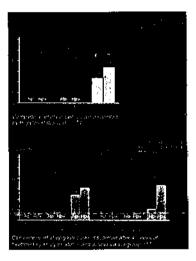
Sufficient control of symptoms restigator's question at 4 weeks. "Does the study medication give sufficient control of your symptoms?" (no/yes)

- Two validated questionnaires were used GSRS, the Gastrointestrial Symptom Rating Scate.
- measuring gastrointestinal symptoms on a 7-graced Like 1 scale
- PGWB the Psychological General Well Being Index. measuring subjective well being or distression a 6-graded 1 ixed scate

Results

Atola of 1248 patients (470 males)/78 females) at 139 centres in 14 countries were included in the intention to treat analysis (TT). The per protocol analysis (PP) included 1643 patients. The three treatment groups were we belanced regarding baseline characteristics. Meanlage was 43 years and 63% had been symptomatic for more than a year. A lotal of 41% of the patients were Hipvion cositive by the UBT test





In ting group of patients with dysmotury dyspoppia no advantage in complete relief of epigastric particliscumfor of omepravole 70 mg and oneptrato ein3 mg was seen compared to placeboil 31% 35% and 33% (VSS)) respectively. Subtlicent confort of symptoms was reported by 31% on placeboil completed with 61% on omeprazole 20 mg (p=0.006) and 59% on omeprazole 10 mg (p=0.02).

the total GSRS score was significantly improved in patients receiving omepitazote 20 ing (p=0.02) compared with placebo. The total PGW2 score improved similarly in all groups (NS)

A logistic regression analysis indicated that recrument in family practice (p=0.003) older patients (p=0.003) older patients with a higher pody mass index (p=0.02) and patients with reflux-tike dyspectals (p=0.02) write. sign ficantly more likely to respond to active treatment than placebo

Omeprazole is superior to placebo in NUD patients at standard (20 mg) and low (10 mg) doses; there is a clinically significant effect in the subgroups ucler-(omeprazole 20 mg) and reflux-like (omeprazole 10 mg and 20 mg) but not in dysmotility-like dyspepsia. The association between treatments effect and subgroups was not explained by differences in H. pylori status.

The Walactics Votice Insulate of London England Register Black Players Players And Annual Property October Register Clarific Property October Register Clarific Property October Register Clarific Register Clarific Property October Register Clarific Register Clarifi