ΞΕΝΟΓΛΩΣΣΕΣ ΑΝΑΚΟΙΝΩΣΕΙΣ (ABSTRACTS) ΕΛΛΗΝΩΝ ΕΡΕΥΝΗΤΩΝ

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3,23 Helicobacter pylori genotypes in the Greek population

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Alm: To genotype in terms of cagA and vacA status, H. pylori clinical strains, isolated from children and adults in the Greek population.

Materials and Methods: 45 clinical strains from children and 56 from

Makertals and Methoda: 45 clinical strains from children and 56 from soluly patients were inclused from gastric belonder following pastroccopy. The presence of cagA as well as subtyping of vacA mid-and signal-region was effected by PCR on pentomic DNA as described by Atharina et al., 1999 and Yumania et al., 1999. and Yumania et al., 1999. Results: 54 (83%) out of 101 99. Strains were detected positive for the presence of cagA (85%) in the soluli and 80% in the children population). Out of 79 strains sunlysed, 22 belonged to the vacAs1 and 27 to the wacAs2 subtype (60% and 34% respectively). Out of 74 strains sunlysed, 23 (81%) were of the vscAm1 and 48 (65%) vscAm2 subtypes while 3

	mi/ml	43/m2	47/mil	124m2	■ /m /m2
Adulta	13)0	0	12	1
Children	9	Ia		15	1
Total	22	20	0	27	3

(4%) remained unrypeable. The combinations of vacA subtypes observed

(4%) remained untypeade. The combinations of viace, subspice observed are summarized in the following table:
We did not detect the wacAstZm1 subspic in the sample population. Conclusions. A high frequency of eagly positive strains was observed in the Greek population. There was no alguidicant difference in the frequency between the such mid- and signal-riggins obstypes. No statistically significant differences among the subsypes were detected between the adult and the achildren earlier service.

Atherion et al. (1999) J. Clin. Microbiol, 37(9), 2979
 Yamaoka et al. (1999) J. Clin. Microbiol, 37(7), 2274

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6.08* H. pylori in children's dental plaque: Correlation with the H. pylori infection status of their parents

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Alm: The aim of the study was to investigate the presence of R. pylori in the destal plaque of children, who underwent endoscopy for upper Gi symptoms and correlate it with the H. pylori infection status of their

parcots.

Methods: The study sample consisted of 35 children aged 4 to 14 years old and 49 family mombers (mother and/or father). Gastric biopsica were collected from all the children for CLO-test, histology and enture. Serology was used to assets the H. pylori saints of the parents, Subgrigival plaque samples were collected from the parents and children before

gival pliague samples were collected from the partial and children before undoscopy. Only samples positive by two different PCR methods were considered positive for the presence of H. phylori in dental plaque. Results: Effect out of 35 (48%) children were considered H. pylori infected by at least two methods (CLC), historiany considered H. pylori infected by at least two methods (CLC) historiany, to the considered H. pylori infected in dental plaques of 6/15 hispay positive children and in only 1 of the 20 hispay negative children. The presence of H. pylori in the dental plaque was significantly associated with H. pylori detection in gazine samples from the samum Grisher's poct.027). On the basis of serology, 33.3% of nothers and 45% of fashirs were considered positive for H. pylori infection. Children who had H. pylori is dental plaque. The presence of H. pylori in mother's dental plaque or positive serology was associated with H. pylori infection to the respective child (pen-008 and pen-002 respectively). Although the same trend was also observed for the fabers, the difference was not retainfacily significant (pen-011 and pos-054 respectively). Conclusions: Dental plaque of children and their families may play an important role-ecting as a "reservoir" for H. pylori maximission. The desection of H. pylori in mother's dental plaque seems to be a critical factor for the interfamilial spread.

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8.02* Intrafamillei spread of Helicobacter pylori (H. pylori):
A genetic analysis

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Background: A high incidence of H. pylori among family members of children with H. pylori gastrics has previously been documented on biopsy material. The main objective of this study was the genetic clarification of

material. The main objective of this study was the genetic clarification of B. pojort scales involved in intraminilal dispersion.

Materials and Methods: Formalin-fixed, peraffin-embedded material of autral mucosa from 32 members of 11 families was studied for the presence of genetic homogeneity. To achieve this goal, the entire genome of H. pylori was studied by the RAPD fingerprinting method. Fanthermore, the Urease A gene was analyzed as laterant control, using a multiplex PCR-assay and the novel mutation detection method based on the Hydrolink snalysis. Genetic similarities of the whole genome of H. pylori as well as the size and structure of Urease A gene were observed among exception of the same family. members of the same family.

Results: Although mutations in Urease A gene were found in 22 out of 32 individuals, the RAPD fingerprinting confirmed that the sume H. pylori strain was involved in the introfamilial dispersion.

Togethesises: The homology of the *H. pylori* genome in members of the same family strongly supports the hypothesis of transmission of *H. pylori* from person-to-person or from a common source.

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[6.17] The intrafamilial status of *H. pylori* infection in children with upper GI symptoms

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Background: H. pylori infection is common and its acquisition is mainly in young ages. It has been claimed that during early childhood intrafe-millal contamination is more possible than from other sources outside

Alms: The aim of the study was to investigate the H. pylori status within

Alms: The aim of the study was to investigate the H. pylors status within families of olduren with upper OI symptoma.

Methods: 45 symptomatic children without previous eradication therapy aged 4-16 years (median 11yrs) were investigated by ¹³C-UBT as well as all their 125 family members operates and siblings) living in the same house. Socioeconomic status and conditions of tiving were also investigated. investigated.

investigated.

Resultar According to H. pylori status the index children were divided into group A: 20 (44%) who were H. pylori infected and group B: 25 (55%) who were negative for H. pylori infection. Forey four out of 57 (77%) relatives of group A were also infected, while H. pylori was found only in 19 out of 68 (28%) relatives of group B, (p=0,000). In group A 79% of fathers, 90% of mothers and 67% of siblings were found H. pylori positive, while in group B 29%, 44% and 5.2% respectively (p=0,001, p=0,01) p=0,001. There was not found any difference concerning living conditions between H. pylori positive and oegative children.

Conclusions: The significantly higher prevalence H. pylori infection within families of H. pylori positive sproporatic children, compared to the negative ones, supports the hypothesis that transmission of H. pylori in hildren could be from the infected amenters of the family or the same

in children could be from the infor source within house. sted members of the family or the same XVth International Workshop on Gastrointestinal Pathology & Helicobacter, 11-14 Sept 2002, Athens, Greece Gut 2002;51(Suppl II):A42

7.13) Apoptosis and call proliferation are significantly affected by anatomic sha and Helicobacter pylori infection of the gastric mucosa

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Department of the Evengelismos' Hospital, Abbras, Greece,
Gastroenterology Unit, Stamongleion Haspital, Abbras, Greece
Ibstroductions: Helicobacter pylori is a risk factor for gastric cancer. The
association between H. pylori and cancer may be attributable to increased
expitables cell tenrover. However, the underlying mechanisms and the
response of different anatomos elses of the gastric mocosa to H. pylori
infection remain to be defined.

Alam: To investigate the apoptosis and cell proliferation rate of different
anacomic pine of gastric minosa in H. pylori +we and -we patients.

Methodis: 20 patients (MF 10/10, ags 24, 16-54 years, median, range)
were studied. So biopsicle were respectablely obtained from the grains (CO,
and leaser (LC) curvature of the noteum and corpus and the fundase and
cardia. H. pylori stams and cell proliferation were described immensibles
according to the Aviden-Biotin Method. Apoptosis was measured by
TUNEL method. The rate of the positive stamed cells was count using
image analysis technique (CABA)A.

Rasathar 11 patients were H. pylori -we not 9 +vv. Median spopiotic
index was significantly different among the GC 25 and LC 20 of antwon,
the GC 15 and LC 13 of corpus, the fundois 12 and the cardia 15
(P-e-0.001). being significantly different almost the site in H. pylori
vve patients (P-o.1001) Median proliferation index was also significantly
different among the CC 24 and LC 2.3 of antwon, the GC 49 and the LC
9.7 of corpus, the fundos 10.1 and the cardia 12.8 (P-o.1001). However,
H. pylori -vve positents that a significantly towe proliferation index or significantly
different among the CC 24 and LC 2.3 of antwon, the GC 49 and the LC
9.2 of corpus, the fundos 10.3 and the cardia 12.8 (P-o.1001). However,
H. pylori -vve positents that a significantly towe proliferation era cignificantly
of the cardia of

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Role of growth factors, spoptosis and COX-1 and COX-2 expression in gastric carcinogenesis - Correlation with *H. pylori* (Hp) infection

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Introduction: Several epidemiologic studies demonstrated a correlation between gustric carcinogenesis and infection with Ho. The exact mechanism that is responsible for the transformation of the gastric mucces still nism that is responsible for the transformation of the gastric mucous still remains obscure. It is possulated that excessive mucousl cell proliferation may eventually result in gastric scooply, mutation and transformation of epithelial cells in a more malignant phenotype. These processes seems to be completed by the expression of COV.2 as an inflammatory enzyme to release excessive amounts of PCE2, leading to further proliferation reduction of apoptosis, angiogenesis and manor growth. So the aim of this study was to investigate the possible role of Growth Factors such as TGFs and HGF in gastric carcinogenesis in correlation with his infraction, as well as to study the expression of genes and as COX-1 and 2 and apoptosis related molecules Bax and BCL-2.

Material and Methods: Blootic specimens and aerum from 50 nations.

Material and Methods: Bioptic speciments and serum from 50 patients with gastric carcinoma were used. Molecular biology techniques were implicated for the study of the expression of TGFa, HGF, COX-1 and 2. and immunohistochemistry for the detection of Bax and BCL-2 proteins

and immunohistochemistry for the detection of DAX may Delice personal. Negative controls were used.

Rewalter 40/50 patients were positive for Hp. CagA+ atrains were detected in 35/40 Hp (4) cases. HGF and TGFs are expressed more frequently in gastric carrinorius than in normal tissues (10 and 15-folds respectively). No statistically significant difference was observed in the COX-1 expression between diseased and normal tissues. On the other hand, COX-2 expression was exclusively seen among gastric carcinoma cases. Only the Bax protein correlated with 50% of the Hp (+) cancer

Conclusion: Infection with Ho, especially with strains expressing CagA+, seems to be a well documented pathway in develoging gastric excisions. Upragulation of growth factors and COX-2, and dysregulation of the Bax/BCL-2 system in Hp infected patients, may constitute to peoplastic transformation.

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7.23 Gastric cardia inflammation and intestinal metaplasta (IM): Role of *H. pylori* and gastroesophageal reflux disease (GERD)

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Prestopannings: Department, America. Office:
Objective: Pathogenesis of citronic inflammation and intestinal mutaplassis at the gastric cardia is still unclear. We evaluated the factors involved in the pathogenesis of these histological alterations.
Methods: Totally 52 consecutive patients who underwent upper endoacopy were enrolled in the study. In each patient 2 biopsies were performed in the antorna, 2 in the gastric body and 2 at the gastric cardia in order to determine H. pytori infection and histological status.

Resulta: Overall inflammation of the gastric cardia was detected in 40 (78.4%) patients. H. pytori infection in 35 (68.6%), Insectian metaplassis of the gastric cardia in 9 (17.6%) and GERD in 18 (35.7%). The rate of H. pytori control was not found ticher in garriers who had inflammation of the gastric cardia in 9 (17.6%) and GERD in 18 (35.7%). The rise of B, pylori infection was not found higher in patients who had inflammation of the gastric cardia compared to those who had not [2840 (70%) vs 5.9 (55.6%); p>0.11, while the prevalence of GERD symptoms was also not different between the two groups [1540 (73.5%) vs 29 (22.2%); p>0.11, Regarding the intestinal metaplasis, B, pylori infection rate was also not higher in parients with B for compared to those without (58 (62.5%) vs 30.43 (69.8%); p>0.13, while no difference concerning the pervalence of GERD symptoms was found between the two groups [29 (27.2%) vs 1642 (38.1%); p>0.1). No difference in age and set emerged between patients with or without histological alterations of the gastric cardia. Conclusiones no relative was found between the two infantamenton and intestinal metaplasis at the gastric cardia and B, pylori infection and GERD.

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Gut 2002;51(Suppl II):A59

10.02 Hellaobacter pylan related gaetric carcinogeneels and immunohistochemical expression of FHIT gene

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Background: Changes in the fragile curtinogenic region FRA3B of Engile himidine triad (Phit) gene have been proposed as an early event in gastric carcinogenesis. We investigated the immunohistochemical expres-

gautic carrinogenesis. We investigated the immunohistochemical expression of Flat gene product (protein) in biopsies of patients diagnosed with chronic gautinis [Helicobacter pylori [Hp] related or not], gastrupithelial dysplasia, intestinal mesuplasia and gastric selenocercipoma Misterials and Methods: We performed immunohistochemistry in archival material of formalin-fixed, parafin-embedded tissues of 135 gastric biopsies [76 endoscopical and 59 surgical), using the anti-Flat anti-body (rabbit satis-Flat polyclopial subbody, TYMED) and the arrepavidin-biodin peroxidate method (Dakoparts). Biopsies from normal gastric epithelium were used as controls. Depending on the strength of staining for Flat all biopsies were characterized as negative (0) up to strongly positive (3+) ones. Statistical analysis was performed with Flacher's exact est and McMenami's x2 less. test and McNemur's x2 test.

test and McNemas's 2 Lest.

Results: Total absence or minimal expression of Fhit protein was noticed in 79% of Hp positive(+) gastrinis, in 76.4% of chronic gastrilis with low or high grade dysplanis and in 56% of gastric adenocarcinomas. The absence of Fhit protein expression correlated with the presence of Hp (p=0.001) and epithelial dysplania (p=0.01) but not with enteric metaplasia. Moreover, a correlation was noticed between the absence of Fhit expression and the infiltrating phenotype of gastric adenocarcinoma (p=0.02) as well as with its histological and clinical staging (p=0.01).

Conclusions: Our results witneyly inficiate that havence or reduced

Conclusions: Our results strongly indicate that absent or reduced expression of Phit protein in Hp(+) guartritis or chronic gastritis with dysplasts, may be an early event in gastric carcinogenesis, probably through direct or indirect changes to the fragile region of the Phit gene.

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10.05 Inflammation and intestinal metapisals of cardisc muccas in patients with duodensi sizer disease and reflux esophagitis

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Ains of the study: To evaluate possible differences in inflammation and intratinal metaphasis in policits with duodenal ulcer (DU) and reflux exoptagitis (RE).

exophagitis (RE).

Prefents and Methods: 90 patients with DU, all Hp(+) and 98 patients with RE. 54 Hp(+) and 44 Hp(-) were travelled in the study. Birpsy positiones obviolated from gastric nature. (A), fundes (F) and cardia(C) were examined with Heastoxylin-Eosia, modified Germa, PAS-Alcian Blus and HID-Alcian Blue nains. The grade and activity of inflammation were evaluated according to updated Sydapsy System. Seriogy for CapA characterization was performed in all Hp(+) patients, Sust chi-equiper. Reseatts: The number of patients with the different degree (0/11/25) of the grade and the scrivity of inflammation as well as the presence and the cuttent of instatinal metaplastat (BH) are shown in the table. CagA seropositivity was 90% for DU patients bot only 40% for REHp(+).

	Grade	Activity	M
200	Q/16/4G/34	4/14/32/40	6476/100
p	•	**	AS.
REHo(+)	2/12/34/6	7/17/24/9	38/6/8/2
5	••		N3
REKp(-)	2/28/14/0	34/1/2/0	32/10/2/0

* p < 0.01. ** p < 0.001.

Conchasions: 1) The grads and activity of the inflammation of the cardia are more severe in DU than in REFig(+) potients. 2) The grade and activity of the cardia inflammation are more severe in REFig(+) that in REFig(-) patients. 3) There is no difference in the presence of DM acid REFig(+) are between DU and REFig(+) are between DU and REFig(+) assigns.

4) the prevalence of CagA compositivity is higher in DU than in REFig(-).

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[15.15] Helicobacter pylori infection in upper gestrointestinal bleeding in patients with hereditary hemorrhagic disorders.

INPLICATIONS CHARGES OF THE ACTION OF THE STATE OF THE ST

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*Artendes University of Thestalonikie, AHEPA Hospital, Greece

Backgruend: In patients with heredicary between hospital, Greece

Backgruend: In patients with heredicary between hospital, Greece

Backgruend: In patients with heredicary between high compileration of the patients with high patients and the compileration in these patients has not been fully clarified in the literature. The aim of this study was to evaluate the role of PH infection and decast stansa in IOBs in patients with HHD.

Methods: Thenry-seven patients with HHD, method age 42±16 years. [18 patients (17 makes, one franke) and 19 patients (12 males, 7 femalics) with and without history of IOBs respectively), and 32 patients without HHD. who eams for elactive gastruscopy, due to dyspeptic syntpatents, mean age 61±16, 32 males, 20 females, hadrond non the study, Endoscopy was performed in all patients with UGB and to controls, ELISA was used to detect 1) IgG (Pharmeticak Urjohn, normal e100ml) 32 anti-Caga, (RADIM, normal e10 RUmi) and 33 IgA (Novam Disagoostes, normal-20 NUmi) resum and salaw HP aerithorities of patients and commits. Whorever, Great and controls, 2-feat was used for restatistical analysis.

Results: 24/37 (64,8%) patients and 34/32 (65,4%) controls had HP-IgG settem entilodies positive (pp. 0.1, NS), while 20/37 (45,0%) patients and 18/32 (34,6%) controls had serven and Caga positive (NS). However, 1518 (33%) and 3119 (27,3%) HID patients with and without UGB respectively, had serven and Caga positive (pv. 0.01), while serven HP-IgO was positive in 1912 (12) was positive in 1912 (12) was positive in 1912 (12) was positive in 1912 (13). He patients with controls and though there was not found statistically significant with history of HGE. According to our restatist and in combination with the increased bioeding complications, and Caga Servenning and therapy is recommended to all patients with HHD.

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[10.13] Evolution of endoscopic incidence of gastroduodenal uicer (GDU) and exophagitis (E) ster the wide application of *Helloobacter pytori* (Hp) eradication regimena

an auronation regioneria

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N. Kusakos¹, G. Microbos², G. Stamatis¹, M. Zisais¹, N. Kralios¹

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**Pathology Inic of **Alexandra* Hospital, Athens, Greece,

**Pathology unit of **Member, Greece,

Pathology unit of Metropolium Hospital, Athens, Greece,

Pathology unit of Metropolium Hospital, Athens, Greece

There are reveral rectant reports suggesting a decrease in the moderate of GDU. The sim of our study was to evaluate if there are changes in the providence of endoutopic diagnosis of GDU or £ after the wide application of fill predictions registers.

Facteurs & Mesthoda: We analyzed all the endoucopic respons and related files of all the patients who had an UGI endoucopy during the year 1993, 1997 and 2001. Our department is situated in a central hospital of Athens, it befores to the National Health System (NHS) send it has an open scores for all beneficiaries of NHS.

Resultir: Total immittee of Bhercacopies (UGI), gaseric/étudéepai ulcere (GDU) and E with the corresponding LA classification (APACO) are shown on the table. The groups were comparable for age, tobacco and alcohol consumption. Valuable information on Hy status in patients with adequocopie legions were sculable in coally 35% during 1993, while this increased dramatically during 1997 (96%) and 2001 (97%). Among them the 60 Highly-patients was 50%, 42% and 31% for E. 7%, 65% and 73% for GU and 490%, 85% and 35% for DU for the 3 periods respectively. NAED's consumption was not modified according to the files' dark. Complications decreased only in 2001 (205, 196, 68).

	uar	ODU	B.	_
1993	2170	148/243	75/38/10/3	_
1997	2376	94/293	66/43/7/3	
200 L	2407	90/323	96/70/11/2	

Conclusions: Since 1993, 1) The total number of UGI procedures has not changed, 2) The accurace concerl on He samu has demandably increased, 3) Notible the previousnees of OGIV and it at endocyon por their Hip sates were modified, 4) Non variceal hemorrhage decreased during 2001, regardlass of the same NSADI's consumption.

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[15.48] Omegrazole plue exithromycin and either tinidazole or amosycillin for the eradication of Helicobacter pytoni intection

G. Anagnostopoulos, P. Kristopoulos, G. Margarkinis, S. Talakos, D. Arvaniddis, 257 Air Force and Veterans Hospital, Athens, Greece

3. Anyanouse. At Air Point one versions received in the first factor of the filter patients of the first patients and the first patients of the first patients of the first patient in the factor patient patient patient patients and the use of alternative antimicrobial agents remains the past of treatment and the use of alternative antimicrobial agents remains the past of treatment sersagios. Arthrophysics is an attractive agent for the regulation of H. pylori the to its excellent liabilities; solivity and long patients are past of the first patients.

eradication of M. polarif the so its seculent inhibitory solviny and long biological half-life.

Materials and Methods: We prospectively investigated 160 curpations with dysceptic synghoms who were referred for upper graturial cost and handlegical assessment was well determined by rapid urrase test and handlegical assessment with dysceptic assessment and handlegical assessment to the second proper graturial properties and handlegical assessment to the second proper properties and the second properties of the second properties and the second properties and the second properties and the second properties are second properties and the second properties and the second properties and the second properties are second properties and the second properties and the second properties are second properties and the second properties and the second properties are second properties and the second properties are second properties.

Resentis: H. pytori was eradicated in 50 of 80 patients of OAZT group (TTT 62.5%)and in 57 of 80 patients of OAZAm group (TTT 71.2%). The difference was not stablishedly significant.

	OAsT group	OALAE DOUG
No of paceers	**	50
No of drop out	0	0
Clare mane		
PS(a)	82,5 4 (50 4 0)	71.2%(37/80)
MS CI	34-71%	63.2-79.14
FFT TW(s)	62.5%(30/00)	71 24 (57/80)
915 CI	54.714	63.2-79.1%

Conclusion: The eradication rates achieved with the above regimena waves low. Possible reasons for the sub-optimal credication rates could be connected with antimicrobial resistance. It seems that no felds the mention of the instance of the content that no felds the many excitate that leads to a 100% eradication rate. In the duture bacterial resistance may increase more and lead to a big peoples. Parther studies are needed to compare the utilities of thorst-arms regimena for Helicobacter plans influenced and the evaluate the role of different proton pumps enhanced.

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PREVALENCE OF HELICOBACTER PYLORI INFECTION IN PATIENTS WITH REFLUX DESOPHAGITIS

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iNTRODUCTION: The role of Helicobacter pylori (HP) in desophagitis is still undefined. It has been suggested that it may be protective against desophagitis.

AIMS & METHODS: We intended to evaluate the relationship between HP prevalence and oesophagitis in endoscopy, as well as between HP and histological diagnosis. In this prospective study 50 consecutive patients were subjected to upper gastrointestinal endoscopy for the evaluation of reflux symptoms. The presence of HP was estimated by CLO test. Lugol chromoendoscopy-directed biossies of the oesophagus were taken in all cases.

RESULTS: The overall prevalence of HP in 50 GORD patients was 35/50 (70%). Among the 50 patients: 29 (58%) had normal endoscopic findings (presence of HP in 20/35, 57.1%; absence of HP in 9/15, 60%; p=ns),13 patients (26%) had grade A oesophagitis(HP+ in 11/35, 31.4%; HP- in 2/15, 13.3%; p<0,05), 6 patients (12%) had grade B oesophagitis (HP+ in 2/32, 5.7%; HP- in 4/15, 26.7%; p<0.05), 2 patients (4%) had grade C oesophagitis (HP+2/35 5.7%, HP-0%). Furthermore, the overall prevalence of HP in biopsies was 34/48 (70.8%). The histological diagnosis were as follows: 2/48 (4.2%) normal (2/34, 5.9% HP+; 0/14HP-0%;p=ns), 11/48 (22.9%) low grade oesophagitis (8/34 23.5% HP+; 3/14 21.4% HP-; p=ns),35/48 (72.9%) high grade oesophagitis (24/34 70.5% HP+; 11/14 78.5% HP-;p=ns)

CONCLUSION: A statistically significant correlation was observed between the presence of HP and grade A desophagitis in endoscopy, as well as between absence of HP and grade B desophagitis. All cases of grade C desophagitis were HP(-). There was no correlation between histological diagnosis and HP presence. The aforementioned probably indicate that the absence of Helicobacter pylori may lead to more severe desophagitis in endoscopy.

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APOPTOSIS AND EXPRESSION OF THE REGULATORY PROTEINS BCL-2, BCL-X AND CYCLIN-D1 IN HELICOBACTER PYLORS INDUCED GASTRITIS

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INTRODUCTION: Several cell cycle regulatory proteins have been studied extensively in a wide range of diseases of the gastrointestinal tract because of their regulatory effect on cell proliferation and particularly for their implication in carcinogenesis.

AIMS & METHODS: Aim of the study was to assess apoptosis and the expression of the cell cycle regulatory proteins Bd-2, Bd-x and Cyclin D1 in patients with HP gastritis before and after successful HP eradication. Multiple endoscopic biopsies from the body and antrum of the stomach from 30 adult patients with histologically confirmed HP gastritis were studied. Apoptotic activity was assessed with the TUNEL method and Bd-2, Bd-x and Cyclin D1 expression with immunoperoxidase staining. Bcl-x expression was studied before HP eradication only while 10 patients with reactive NSAID-induced gastritis were used as controls for Bcl-x expression.

RESULTS: Mean value of apoptotic index before and after HP eradication was 3.5% (0.6-11.7%) and 12% (4.8-32.9%) for the body and 5.02% (2.03-19.29%) and 7.4% (1.9-16%) for the antrum respectively (p<0.05). Bcl-2 expression was observed in the antrum only in 8/30 (27%) and 26/30 (87%) patients before and after HP eradication respectively (p<0.05). Cyclin D1 expression was found in ~1% of cells, both before and after HP eradication, being increased (in ~5-10% of cells) only in foci of regenerative activity. Bcl-x expression was observed in 10/10 (100%) patients with Grade 3 and in 6/8 (75%) with Grade 2 gastritis and G3 and G2 HP load respectively. All patients (12/12, 100%) with mild (Grade 1) gastritis were negative for Bcl-x expression as were the 10/10 (100%) control patients with NSAID-induced reactive gastritis.

CONCLUSION: Although if the number of patients studied is relatively small, it seems that after successful HP eradication: a) apoptotic activity remains increased, particularly in the body of the stomach, b) expression of the anti-apoptotic protein Bol-2 is statistically significantly increased in the antral mucosa only, c) cyclin D1 expression remains unchanged and d) Bol-x expression is associated with high HP load and severe gastritis, being negative in reactive (NSAID-induced) gastritis.