## ΞΕΝΟΓΛΩΣΣΕΣ ΑΝΑΚΟΙΝΩΣΕΙΣ (ABSTRACTS) ΕΛΛΗΝΩΝ ΕΡΕΥΝΗΤΩΝ

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter. 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:505

Abstract no.: 03.30 Helicobacter pylori infection and duodenogastric reflux (DG.R.)

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\*\*Ippokratio General Hospital, Department of Gazzoemerology, Athens, Greece, Plipokratio General Hospital, Department of Histopathology, Athens, Greece, Puniversity of Economics and Business, Department of Statistics, Athens., Greece Business, Department of Statistics, Athens., Greece Objective, H.p. infection and DG.R. are linked with thronic

gastritis, intestinal metaplasia and dysplasia. The relationship between H.p. infection and DG.R. is, as yet, unclear. The objective of this study is to investigate any possible link between them. Methods. 101 patients (comprising 53 men and 48 women), median age 57 years (range 21-86) underwent gastroscopy, because of epigastric discomfort. None of them had history of cholery-steetomy or diseases of the bile duct. They were separated into two groups. The first group comprised of 46 patients, were diagnosed with DG.R. The second comprised of 55 patients, were not diagnosed with DG.R. The methods of diagnosis used for H.p. infection, were firstly by histological examination, and secondly by rapid urease test. The statistical analysis took place under X2 test control conditions. These, were confirmed by applying the model of logistical regression.

Results. From the group of patients diagnosed with DG.R., 28 (60.8%) proved to be H.p. (+) and 18 (39.2%) H.p. (-). From the group of patients who were not diagnosed with DG.R., 30 (54.5%) proved to be H.p. (\*) and 25 (45.5%) H.p. (-). The percentage of H.p. infection was not higher in patients who were diagnosed with DG.R., than those who were not (p > 0.05). In addition, there was no difference between male and female results.

Conclusions. This study did not find any connection between DG.R. and H.p.

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:531

Abstract no.: 06.15 Helicobocter pylori (Hp) increases matrilysin (MMP-7) expression in gastric epithelial cells in a Cag dependent manner in the antrum but not in the cardia

<u>S. Michopoulos</u><sup>1</sup>, M. Sotiropoulou<sup>1</sup>, C. Petraki<sup>1</sup>, K. Petraki<sup>1</sup>, G. Manthos<sup>1</sup>, N. Katsakos<sup>1</sup>, D. Sgouras<sup>2</sup>, A. Mentis<sup>2</sup>

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It is reported that Hp up-regulates MMP-7 expression in the epithe-lium of anurum (A) and fundus (F) and that this expression is more lium of annum (A) and fundtu (F) and that this expression is more intense in Cag(+) Hp scrains. It was suggested that this expression could be related to carciaogenesis. The aim of our study was to determine if this up-regulation is also observed in the cardia (C). Patients and methods. 76 patients (B) men), 47 Hp(+), 31 CagA(+) were enrolled in the study. All patients were not taking. NSAID's for at least one month. Biopsics from A, F and C were obtained. Anti-CagA strain was assessed by ELISA.

All biopsics were stained with May Gronwald Gienta. Immunohistochemistry was performed with monoclosal antibudy [MMF-7, Ab1(Clone 102)]. Slides were assessed bindly for incensity in the proliferative zone (9: none, 1: mild, 2: moderate, 3: very intense;

Results. Mean age ± SD: 45.3 ± 12.1. MMP-7 intensity assessment

Results. Mean age 2: 513: 45.3 £1.21. MMI-7 intensity assessment is shown in the table. In each cell corresponds the absolute number of patients for a degree of intensity in an order of 0/1/2/3. Conclusions. (1) The presence of Hp increases MMP-7 expression in A and P (2) CagA(+) strains intreases MMP-7 expression in the A but not in the P compared to the CagA(-) and (3) Neither Hp nor CagA influence MMP-7 expression in the cardia.

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:513

Abstract no : 04 72 Helicobacter pylori colonization in palatine salivary glands

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Introduction. Recently, a case of MALT lymphoms of the parotid gland in Sjögren's syndrome associated with localized Helicobacter vlori (HP) infection was described. Furthermore, it has found that Pytors (FLP) intection was described a large state are secreted from the palatine salivary glands because of nigher degree of sulfation. However, there is no report whether this microorganism might colonize the palatine salivary glands of the oral cavity.

coloruze the patente salvery glands of the oral cavey.

Alim. To investigate by immunohistochemistry the HP status of pelatine salvery glands.

Material and method. Formalin-fixed, paraffin-embedded ussue blocks of pataine nucess containing palatine salvery glands from tonsillectomy specimens for tonsillicis (26 cases) were audied. All sections were stained using hematoxylin & cosin for histologic examination and a polyclonal antibody for HP using an immuno-

peroxidase technique following heat induced antigen retrieval.
Resulta. Microscopically, no pathologic changes were detected in pelatine salivary glands. Immunohistochemically, no distanct bacillary structures (helical and/or coccold forms) were detected neither in the acini nor in the salivary duet system. However, anti-HP antibody showed immunoreactivity with acinar system antigens. Specifically, they recognized the cytoplasm of mucous

acinar cells in most palsuine salivary grands sections.

Conclusions. Antibody reactivity of cells in the acini of the palatine salivary glands may either be due to internalization of HP by these cells, or to cross-reactivity of anti-HP (gG with epithelial syllapsecus, or the too high rates of positive reaction make the second explanation more likely, supporting the theory of an autoimmune reaction induced by HP infection.

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:537

Abstrace no.: 07.11 Aspirin influences Matrilysin (mmp-7) Expression in Gastric Epithelial Cells

S. Michopoulos<sup>1</sup>, K. Petraki<sup>1</sup>, M. Sodropoulou<sup>1</sup>, C. Petraki<sup>1</sup>, A. Naccios<sup>1</sup>, G. Stamads<sup>1</sup>, D. Sgouras<sup>1</sup>,

Alebandra Mosoital, Arhana, Greece, Rinettus Partaur, Arhana, Greece

Abmandes Mogetal Arthen, Greene, Tineston Paraut Abane, Greene, Introduction, Heisborger zydor, [187] up-repulsate matrix metallogueatiestes 7(MMF) 71 generation in the gastric epithetien. This expression is more intense in CapA-7) fly existen. It may an expression in the matrix of contingeness of the could be related to cartirogeness. At the could be related to the could be completed to the could be could be considered to the could be could be could be could be completed to the could be could be

| Anton | P | Anton | "> 4.06 persons big(r) and big(-) of the some topographic distribution of sate Group, "> 4.06 persons big(r) and big(-) of the some topographic distribution of sate Group, "> 4.06 between CupA(-) and CupA(-) > 4.06 between cupA(-) and their qubA(-).

Conclusion, (i) Hip infection enhances MMC-2 general epiticism of a CupA deproduct matter (2) Applies decreased with the cup cup cup in the CupA deproduct matter (2) Applies decreased means in the CupA deproduct matter (2) Applies decreased means in the CupA deproduct matter (2) Applies decreased means and the CupA(-) are some interest of means are some fine of the CupA(-).

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:538

Abstract no.: 07.14

Microsatellite instability (MSI) in chromosome 17:A molecular and tissue microarrays study in gastric cercinogenesis (GC) – Correlation with gastric carcinogonous , = =, Helicobacter pylori (Hp) infection

A. Karameris<sup>1</sup>, E. Tslamoas<sup>2</sup>, G. Vilaras<sup>2</sup>, T. Rokkas<sup>3</sup> A. A. A. Paramer G. L. Tasan House, N. Than act, T. Norman, Department of Pathology, 417VA Hospital, Athens, Greece, Garroensenology Clinc, Henry Dunant Hospital, Athens, Greece,

Introduction. Genomic instability may be an early event in

curcinogenesis.

Aim. We studied chromosome 17 MSI to elucidate the role of Ha

Aim. We studied chromosome 17 MS1 to elucidate the role of Ho-in the GC pathway.

Material methods. 45 carcinomas (25Hp+ and 20Hp-) were routised for determination of MSI 12Hp+ and 10Hp- excinomas were classified as diffuse, whereas 13Hp+ and 10Hp- as intestinal type. In Hp+ cases, intestinal metaplisms (IM) observed in S, II in 8 and III in 12 cases. Control (FP-) included 5 IM I, 6 DM III, 10 BM III. The TMArrayer apparatus was used for construction of TMAs. DNA obstance from TMA gazers: experiment, amplified with 2 microsatellites markers (D175250, TP53DNA) and properly mallocal. analyzed.

analyzed.

Resulta. 10/13 of instatinal and 6/12 of diffuse Hp+ caccinomass were expressed MSI, as well as 0/8 1M I, 3/12 IM II and 7/8 IM III Elpo Cases. Three Hp- of diffuse and 5/19 of intestinal carcinomass were also revealed MSI, whereas MSI was expressed in 0/5 of 1M II Hp- cases. IM and carcinoma MSI-positive cases were also analyzed by chromogenet in 1 into hybridization. Annuploidy—was observed in 9/13/Hp- carcinoma MSI-positive cases were also analyze to place the 1/13/Hp- interface in 1 into 1/13/Hp- into MII and in 6/8/Hp- IM III cases. In contrary, 2/10/Hp- III cases revealed chromosome 1/2 annual position.

IN III cases revealed chromosome 17 aneuploidy.

Conclusions. Results indicate an involvement of MSI in Hy
infected gastric cells sian have ensered the multistep GC pathway.

Actuagh mechanisms involving servation of chomosome 17related ancogenes, aneuploidy and deregulation of cell cycle.

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004,9:541

Abstract no.: 07.22
Cytomegalovirus (CHV) as a possible factor in pathogenesis of gastric cancer and its relationship with Helicobotter bylori

D. Dimitroulopoulos<sup>1</sup>, M. Christodoulou<sup>2</sup>, D. Xinopoulos<sup>1</sup>, K. Tsamakldis<sup>1</sup>, A. Fotopoulou<sup>3</sup>, A. Papadokostopoulou<sup>3</sup>, G. Gerasimidis<sup>3</sup>, N. Apostolikas<sup>4</sup>, E. Panotopoulou<sup>3</sup>, E. Paraskevas<sup>4</sup> 14. Approximately, c., patroxyporturely, c. in an extension of Phylorida Canter Hospital, Statementerology UNA, Admir Grance, NG, Paparkobarul Research Center, Virology Department Athens, Greece, Phylorida Santasi Cancer Hospital, Ing Rudaldon-Oncology United Athens, Cancer, Phylorida Santasi Cancer Hospital Puthology Department, Halandri-Athens, Greece

Oncology White Movement "Adjoct Sorves" Concord Hongard, Pathodogy Designation of GNN, alone or correlated with 10% in the pubbogeness of garthet definencements.

Aims. Exturation of possible role of CNN, alone or correlated with 10% in the pubbogeness of garthet definencements.

Re monitorismon experiments of patients (Quitte Canters 4)-premalignate leases at the control protection of the control protect

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:543

Abstract no.: 07.28 Abstract no. 10.100 Effective single agent charnotherapy in patients with low grade gastric and doodenal lymphoma after failure of anti-Helicobotter pylori (HP)

M. Vaslametzis<sup>1</sup>, G. Manczaris<sup>2</sup>, D. Rontogianni<sup>2</sup>, J. Kałogeropoulos<sup>4</sup>, N. Papadimitriou<sup>3</sup>, P. Stasstnopoulou<sup>1</sup>, E. Vrionis<sup>1</sup>, N. Atevizopoulos<sup>1</sup>, C. Zoumblios<sup>1</sup>,

C., Alexopoutos\*
Upaparonans of Medical Oncology Isranjatamos General H Adum, Grasco, Popurtments of Gascoensecology Evergal Gancal Hospital, Athent, Greece, Popuramenos of Patholog Energellumos General Hospital, Athent, Grace, "Department Radiology Evergeliumus, General Hospital, Athens, Grace

Background. Almost 70% of guaric low-grade (LG) mucosasteelisted-lymphoid-surve-(MALT) lymphotas-(NHI) show complete response (CR) to the und-HP seatment. Patients with measurem to progrative disease, despite HP erubration, see randicities for che motherspy.

Aim. To present the outcome of 2 patients with LG/MALT/NHL who relayted on failed to respond despite successful HP

MHL who relayed or falled to capond despite successful HP endicition.

Patients. A 71 y man with multiple hepatic echinococcal cytis spice 1992, underwent gatteroscy (6/1995) because of spitaness ducumiant. Endoceopy thowed executive mobilar/ulertaxid gatter mascoal fulfs. Histology/trapage ervected a HEA. LCP MALI(CDDE). MHB starnings 47%; Se HP infection grade. II: The patient received chassical DACAH dyna. Complete incentiation Bostosy no ugas of endoscopyolisitologic NPLL representations. Bostosy no ugas of endoscopyolisitologic NPLL representations. The application of the patient properties of the capital continuation of the patient properties of the capital continuation of the patient patient properties in mediatoripoid dispersion of the patient patients of the patient patients of the patient patients of the patient patients of the patients and the mobile of the patient can be the patients of the patient patients of the patients and the mobile of the patient patients of the patients and the patients of the patients and the patients of the patients and the patients of the patients represend with chlorands pCR, runnined until now

A 37 y woman pretenting in 7/2002 with epigastric pain, indigention & blossing, underweat gastrorcopy/biopsies, EUS & barium meal which revealed an ulcertated polypoid mass 4 x 5 cm at the apra of the dundreal blub. Histodogy/staging revealed a IEEA, LG/MAIT marginal zone (CD5+, CD20+, polification rate < 1009-) & HP indexion/garating gadells. She recond OAC=14 days without NPIL response, despite HP eradication. Then, the was taken chlorenthorid 7.5 tag/day x 12 months powithout coatiest & in pCR for 16 + mo.
Conclusion. Patients with upper G1 LG/MAIT/NHL associated with HP affection, nunturealfully treated with annu-HP regimens, may undergo CR with chloranthocil po, without any toxicity.

XVIIIb International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:545

Abstract no. 08.06 Effect of H. pylori eradication on esophageal acid exposure and oesophageal motility in patients with Gastroesophageal Reflux Disease (GERD)

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Aim and methods. To investigate the impact of Helicobaner pylori eradication on the cosophageal sold exposure and erophageal motility in patients with GERD High-pusherwate suid-scopy-biopsy, manometry and 24-b pil-metry. All patients received translard eradication treatment, and they were re-extimined with pH-metry, manometry, and occupy-biopsy. The statistical analysis was made with arowa and Pearson tests.

Results. Pre-treatment endoscopy showed reflux oesophaguis in 18 patients (Savary Miller grade 1:14, 2:4) and Negative Endoscopy Reflux Disease (NERD) in 19. All patients that antrum predominant gastritis. The mean De Meester score wat 47.1. The mean Lower Oesophageal Sphincter Fresture (LOSF) was 13.2 mmHg. The motility of the esophageal body was aromal in 35.2 mmHg. The motility of the esophageal body was aromal in 35.2 mmHg. The motility of the esophageal body was aromal in 35.2 mmHg. The motility of the esophageal body was aromal in 35.2 mmHg.

mean Lower Oesophageal Sphurder Pressure (LUSP) was \$1.2 mmHg. The motility of the esophageal body was acomal in 33 patients (all NERD and grade 1 oesophagitis). The 4 patients with grade 2 oesophagitis had ineffective motility of oesophageal body and LOSP < 7 mmHg. After successful Hg enadication both gastritis and oesophagitis were healed in all patients. The mean De Meester score after enadication was 14.2, a significant decrease compared to the pretreatment score (p < 0.001). After enadication a slight increase in LOSP (14.2 mmHg) was observed (NS). In the 4 patients with grade 2 occophagitis and ineffective mobility the nesophageal corpus scivity returned to normal with no change in LOSP. Conclusions. 1. The eradication of Hp infection may lead to a decrease in gustrooesophageal rethux, and may have no effect on

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:565

LOSP and oesophageal body motor activity, 2. The type of gastritis of our patients may have influenced the results.

Abstract no.: 10.26
Combination Of Rapid Urease Test With Rapid Surology Test For The Early Detection Of Holkobacter pylori Infection in Patients With Bleeding Duodenal Ukers

M. Tzourola<sup>1</sup>, E. C. Alexopoulos<sup>2</sup>, V. Vamvakousis<sup>1</sup>, K. D. Paraskeva<sup>2</sup>, C. Spiliadid, J. A. Karagisnnis<sup>2</sup> (Sastroenterology Unit, 'Agis Vanvar' Horstall, Advant, Greece, 'Oppartment' of Epidentology, Advant University Medical School, Advant, 'Greece, 'Gastroenterology' Unit, 'Agis Orga' Hospital, Attornace, 'Oppartment of Pathology', 'Agis Orga' Hospital, Attornace, 'Oppartment of Pathology', 'Agis Orga' Hospital, Attornace, 'Oppartment of Pathology', 'Agis Orga' Hospital, Attanza, Greece

The sensitivity and negative predictive value (NPV) of the rapid urease test (RUT) is lower in pasients with active tuker bleeding (AUB). The combined efficiency of a RUT and a rapid while blood antibody zets (WBA) has not been established in these pasients.

(AUB). The combined efficacy of a RUI Into a rapid winter escot articles are considered reflectly (WPA), has not been established at these patients. Aim of this study was to evaluate the combined efficacy of a RUI and a WBA test in passents with AUB. He infection was determined by the Assure test (WBA), He pylori rapid test (Alpha Medical), LCI Oter and hirtulogy. The HP load in the indexy may be defined to the test of the hirtulogy and 11 with nonblee dring DUs at endoscopy were studied. The prevalence of HP in bleeders was \$35% compared to 9.9% in nonbleeders, as defined by histology, Both RUI and WBA test did not differ significantly in tensitivity, permitted and WBA test did not differ significantly in tensitivity, permitted was been tested was low (gred 2 and 2), the differences in ensitivity of RUI's will all just short of significance (O.34 vs. 25.5, p = 0.34). The sensitivity and NPO of the combination was 0.04 and 0.43, respectively. The kapps of agreement of their combination, compared to histology, was significant both in patients (2), a grainfact (2), the patients (2), the MBA, when HI load is low, 2. The combination of both term is more accurate for the diagnostis of HP infection.

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:546

Abstract no : 08 08 Do hyperplastic polyps of the colorectum represent an extragastric reservoir for Hellcobacter pylorl infection?

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Filt Front Harden South Debugger, Partial Philadikosas, General Hospital, Messolonghi, Greece, Partias University, Medical School, Partia, Greece, Pagrinio General Hospital, Agrinio, Greece, Private Gastroentarrilogist, Agrinio, Greece, "Saint Andreas" General Hospital, Patras, Greece

Introduction. Recent studies have demonstrated the bidirectional differentiation of the hyperplastic polype of the colorectum to both gastric foveolar and colonic epithelial cells in the same crypt. This indicag in combination with their malignant potential as has been suggested in several recent important rutiles, raises the question of whether Helicobacter pylori (HP) is settling in the colorectal

hyperplastic polypa.

Material and method. A retrospective study. A total of 25 hyperplastic polyps of the colorectum, which were endoscopically or surgically resected were investigated. Immunohistochemical analysis was carried out on formalia-fixed paraffin-embedded 4um sections using a polyclonal antibody directed against HP using an immunoperoxidase technique following heat induced antigen

ast immanoperoxidase technique following heat induced artigor retrieval.

Resulta. HP was prasent in 8 of the 26 polypectomy specificas: (26.92%). In HP positive cases, both helical and coccord forms were found in high numbers, in the superficial murcus layer, attached to the columnar cells with clear cytoplasm and small oval nuclei, resembling gastric forevoler epithelial tells.

Conclusions. Our research neggests that hyperplassic polyps of the colorectum may be an ecological niche for HP. To our knowledge, this is the first documented study by immunchiscochemistry on detection of FPB in hyperplassic nedges of the colorectum.

detection of HP in hyperplastic polyps of the colorectum.

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter, 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:594

Abstract no.: 15.01 Effect of Lactic Acid Bacteria on gastric Inflammation and humoral Immune response towards H. pylori in the SSI mouse infection

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We have evaluated the effect of individual lattobacilli (LAB) belonging to different species (L. johnsonii Lai, L. amylovorus DCE 471 and L. acidophilus IEB 831) for their potential bulley to affect H. pplan (Hp) colonization and the associated pattents in CS7BL/6 mice infected by the Hg 551 serals. We administered LAB continuously through the animal drinking water and found that a daily dose of 10° chusannal did not eradicate or reduce Hg colonization as 6 and 12 weeks portification, as assessed by visible cultures. However, there was a significant reduction in chuonic inflammation (updated Sydney ystem) as tweeks (p = 20.038) in the Lai-treated minuals compared to Hpoinfected controls, but only at 6 weeks positivation in the Hg-infected controls, but only at 6 weeks positivation in the Hg-infected controls, but only at 6 weeks positivation in the Hg-infected controls, but only at 6 weeks positivation in the 12 weeks (p = 0.018) in the La1-treased saintails compared to Hymothetic controls, but only at 6 weeks positivetion in the two other LAB-treated groups (DCE 471 p = 0.047 and IBB 801 p = 0.014). Moreover, in all the LAB-treated saintails, we observed a striking streamston of shorten settler partition, as a significantly reduced number of neutrophils invaded the lamina propria, throughout the whole L2-week period (La1 p = 0.003), DCE 471 p = 0.011 and IBB 801 p = 0.011). Analytic [p = 0.003, DCE 471 p = 0.011 and IBB 801 p = 0.011). Analytic [p = 0.003, DCE 471 p = 0.003, DCE 471 p = 0.003, DCE 471 p = 0.003, Scaledon -test), although a tendency for reduction in analoopy titer was also observed in the other two LAB-treated animals [p = 0.05, Scaledon -test), although a tendency for reduction in analoopy titer was also observed in the other two LAB-treated animal groups. These certific point out that factors either neuroscilla for prepared by or expressed on live LAB can influence both the anti-fix homenal response and the neurophila: infiltration in the lamina propria, a hallmark of H, pylari infection,

XVIIth International Workshop Gastrointestinal Pathology & Helicobacter. 22-24 September 2004, Vienna, Austria Helicobacter 2004;9:601

Abstract no.: 18.01 Helicobacter pylori (Hp) Seropositivity influences the time of starting as well as the frequency of Vomiting in pregnancy

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The role of Hp in vomiting during pregnancy is not well established. Aim. To investigate the relationship of Hp with the presence and the pattern of vomiting Patients and methods; 221 pregnant women have completed a questionnaire the day after their delivery about the frequency and duration of vomiting during their pregnancy. A serology for Hp (ELISA) and CagA was performed. Results. Age 26.2 ± 5.5 years, 54.1% had vomiting during their

pregnancy. Cp (+) prevalence was 59.4%. CagA seropositivity 78.3%. Mean duration of vortiting, 10.0 ± 6.9 (1-35) weeks. Mean time of starting vomiting: 4.6 ± 5.6 (1-38) weeks. No correlation between Hp (+) or CagA (+) and vomits or its duration. Hp seropositivity was correlated to the time of scarting vomiting  $(5.5\pm6.3$  weeks for Hp (-) vs. 3.5 ± 3.1 weeks for Hp(+), p < 0.05] but was not for CagA (\*). The mean number of vornits per day was higher in Hp (\*) women mainly at the beginning and the end of the vorniting period (PBa's Trace = 0.10, p < 0.01), mainly for the 1st (0.75  $\pm$  1.45 vs. 0.54  $\pm$  1.09) and the 5th month (0.34  $\pm$  1.23 vs. 0.17  $\pm$  0.65). Age, BMI, prior gestations, and the titles of anti-Hp and anti-CagA were

Conclusions: (1) Hip seropositivity was not related to the presence of vomits in pregnancy (2) Starting of vomiting is observed earlier, while the daily frequency of vomits tends to be higher in Hip (-) women, mainly in the beginning and the end of the voniting period (3) CagA seropositivity does not influence the presence or seriousness of vomiting.

12th United European Gastroenterology Week (UEGW) 25 - 29 September 2004, Prague, Czech Republic. Gut 2004;53(Suppl VI):A122

CAGA POSITIVE HELICOBACTER PYLORI STRAINS ARE ASSOCIATED WITH INCREASED RISK OF PEPTIC ULGER BLEEDING AMONG NSAID USERS. A MULTICENTER CASE-CONTROL STUDY

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INTRODUCTION: The role of Helicobacter pylorunfection and especially of the cytotoxin associated gene product strain in peptic ulcer bleeding among chronic NSAIDs users remains controversial.

AIMS & METHODS: A case-control study was carried out of 191 consecutive chronic NSA'Ds users admitted because of peptic ulcer bleeding. Peptic ulcer was ventied by endoscopy. Controls were 196 caronic NSAIDs users without signs of bleeding of similar age and pender as cases. Multivariate regression analysis was performed for further evaluation of the interaction among H. pytori, CagA status and other risks factors.

RESULTS: H. pyton infection was present in 121 [63,4%] cases compared with 119 (60,7%) compots (OR=1.14, 95%CI, 0.76-1.72). CaqA positive strains were found to be significantly more frequent in cases than controls (65/106 versus 41/99 p=0.008). Current smoking (OR=2.65, 95%Cl -1.14-5.15, p=0.02) CagA status (OR=2.26; 95%Cl, 1.24-4.19; p=0.008), dyspepsia (OR=6.89; 95%Cl, 1.84-25.76, p=0.004) and past history of peptic ulder disease (OR-3.15, 95%C), 1.43-6.92, p=0.004) were associated significantly with increased risk of bleeding

CONCLUSION: Results suggest that CagA - positive H, pylori infection is associated with a more than 2-fold increased risk of bleeding peptic ulcer among chronic NSAIDs users.

12th United European Gastroenterology Week (UEGW) 25 - 29 September 2004, Prague, Czech Republic, Gut 2004;53(\$uppl VI):A38

ASPIRIN INFLUENCES MATRILYSIN (MMP-7) EXPRESSION IN GASTRIC EPITHELIAL CELLS

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INTRODUCTION: Heirotracter pylori (Hp) upregulates matrix metalicproteinase-7 (MMP-7) expression in the gastric epithelium. This expression is more intense in CagA(+) Hp strains and it is suggosted that this could be related to

cormogenesis.

AMS & METHODS: The aim of our study was to examine if chronic aspinninshie influences this uping Jaton. Patients and methods: 142 patients [81 men) were enrolled in the study. Group I: 81 patients without aspinnin consumption - 52Hpt-19. 36 CagA(\*) and Group II: 61 patients - 36Hp(\*). 24 CagA(\*) taking 100-20 mydday of aspinn for more than 2 months. Anti-CagA status was assessed to BLISA. Immunohistochemistry was performed on paraffin embedded gastric bopsy samples using a neuse monoconal ann-MMP-2 antibody (Clone ID2-NeoMarkers). MMP-7 statining intensity in epithetial cells of the proliferative zone of the gastric runcoar was graded bindly (\*) none. 1 mill. 2 moderate. 3 very intense: -cytoplasmic expression). RESULTS: Mean ages 50 A49 In 2.8. MMP-7 intensity assessment is shown in the table. In each cell the absolute number of patients for the corresponding staining intensity score is shown in an order of 2012.

Antrum o Antrum+As Fundus o Fundus+As 19/7/3/0 \$ 10/3/4/8 25/4/9/0 \$ 12/1/2/10 NS 5/3/2/1 

'p<0.05 between Hp(+) and Hp() of the same topographic cisisfourion of each Group, "p<0.05 between Cag A (+) and CagA (), \$ p< 0.05 between patients taxing and not taking aspirin.

taking are not taking aspirin.

CONCLUSION: 1) His inflection exhances MMP-7 gastric epitrel-al expression in a CagA dependent manner. 2) Aspirin increases MMP-7 expression art-9(1) both in airligal and fundic mucosa. This observation is probably not correlated to gastric carcinogeness but it may be related to an increased activity of MMP-7 for the cleavage of the induced by aspirin memoriane-bound TNF alpha. 3) MMP-7 gastric epithelial expression should be carefully interpreted in pagents taking aspinn, when evaluated in the carcinogenic process.

12th United European Gastroenterology Week (UEGW) 25 - 29 September 2004, Prague, Czech Republic, Gut 2004;53(Suppl VI):A123

IS HELICOBACTER PYLORI ERADICATION THE TREATMENT OF CHOICE FOR PEPTIC ULCER DISEASE IN PATIENTS WITH LIVER CIRRHOSIS? FOR PETRIC UCLE DISEASE IN PATIENTS WITH EVER VINNOSS'S C. Tashas', K. Triantalylicu' G. Triantalyfou' S.A. Rapis' S.D. Ladas', 1st Department of Gastroenterology, Evangelismos Hospital, 7sepalo-castroenterology Julis, 2nd Department of Internal Medicine, "Artikon University General Inospital, Medical School, Alberts University, Alberts, Greece

INTRODUCTION: Helicobacter pylori eracication is the standard treatment to cure peptic ulcer disease. The role of H. pylon in peptic ulcer in patients with liver circhosis has not been studied

AIMS & METHODS: To investigate the natural course of peptic ofcer disease in cirriotics, after healing with either H. pylon eradication or preprazole (CME)

AIMS & METHODS: To investigate the natural course of pepic vider disease in inmacks, after healing with either hill pylon readication or principate (CME) therapy.

Consecutive patients with river cirribosis and peptic cicler were studied. Patients had never received Hill pylon eradication and had not used NSAIDs or proton pump inhibitors the past two months before entering the study. All underwent endoscopy at entry with Hill pylon testing (histology). Melicobacter pylon rive patients received in the pylon testing (histology). Melicobacter pylon rive patients received on week triple eradication theraple followed by 20 page CME for three weeks, and Hill pylon in epitients were treated with 20 mg/d CME prograd CME for flow weeks. Follow up endoscopies were performed four weeks after completion of therapy and at 12 and 24 months follow pryncopins recurred. Those patients with ulear recurrence were treated with 20 mg/d CME maintenance therapy. RESULTS: Cut of 28 patients (24 mae. 4, 64 mae. a god 61, 48-71) seas. 18 alcoholos, 10 non-alcoholos, Child A-13, 8-10, C-5), 18 bad a dividental said to a gostic ulear in 17/18 Hill pylon in the 28 patients. Hill pylon was successfully eradicated. All ulcers were healed all weeks after cradication or OME therapy During the 24 months follow up period ulcer reapaged in 17 (818 Hill pylon in equilibrium). Plant of the pylon in status at entry to the study (22-11-4, pylon 1900) and egiptic status at entry to the study (22-11-4, pylon 1900) and decrease and product were rejected by the model. CONCLUSION: Helicobacter pylon eradication coes not product Hill pylon invesimination in the pylon status at entry to the study (22-11-4, pylon). We significantly related to ulcer recurrence. See, shoopyly of chrosis and tipe of where were rejected by the model.

12th United European Gastroenterology Week (UEGW) 25 - 29 September 2004, Prague, Czech Republic, Gut 2004;53(Suppl VI):A126

MICROSATELLITE INSTABILITY IN CHROMOSOME 17: A MOLECULAR AND TISSUE MICROARRAYS STUDY IN GASTRIC CARCINOGENESIS - CORRELATION WITH HELICOBACTER PYLORI (HP) INFECTION A Karamens' E. Tisarmas' I. G. Vilaras' T. Rokkas' Obert of Pathology. 417 VA Hospital, 'Gastroenterology Clinic, Henry Dunant Hospital, Bluens, Greece

INTRODUCTION: The role of microsatellile instability (MSI), a form of genomic abnormality expressed mainly in tumors, remains unknown, MSI is identified when allielse of novel sizes are detected in microsatelliles sequences derived from cancer ONA that are not present in normal tissues of the same individual. Bottom studies the discount of MSI in the initiation of gastric

studies tried to determine the implication of MSI in the initiation of gastric carcinogenesis, straggest that genomic instability may be an early event in this multistep procedure.

AMMS & METHODS: We analyzed chromosome 17 MSI by TMA method, in prenepdiastic and gastric carcinoma cases after Hp infection, in order to elucidate the possible role of Hp in the gastric carcinogenesis pathway. 45 formal in fixed paratine methoded gastric carcinoma cases steen from the archives of 417 VA Hospital were studied for determination of MSI (25 Hp \( \) and 20 Hp \( \). 12 Hp \( \) and 10 Hp \( \) as infestional type (according to Lauren). Intestinal metaplasta (IM) type I were observed in 5 Hp \( \) eases, MI in 8 and IM III in 12 of them. Controls included 5 Hp IRIA it 6 MI ha and 10 MHI in aces. I he TRAArrayer apparatios (Chemicon, USA) was used for the construction of TMAs. DNA obtained from TMA gastric securings as amplified with a set of 2 microsalellities makers (10 115250) and

was used for the construction of TMAs. DNA oblained from TMA gastic specimens was amplified with a set of 2 microsatellities markers (D175250 and TP53DNA) and properly analyzed. TP53DNA) and properly analyzed. TP53DNA) and properly analyzed. RESULTS: 10/13 of intestinal and 6/12 of diffuse Hp+ gastric carcinomas were expressed MSI in obratoscene 17, as well as DS Hp+1MI, 3/12 IMI and 7/8 IMI. Three Hp. of diffuse and 5 Hp. of intestinal carcinoma cases were aso revealed MSI. Forthermore, MSI was expressed in 0/5 of IMI, 1/6 of IMI and 4/10 of IMI III processes. IM and carcinoma MSI-positive cases were also analyzed by chromogenic in situ hybridization (CISH, Zymed, USA). Aneuploidy, were observed in 9/13 Hp- carcinomas of intestinal, in 4/12 Hp+ of diffuse type as well as in 1/12 Hp- IMI II and in 6/8 Hp- IMI III cases. In contrary, 2/10 Hp IMI III cases revealed chromosome 17 aneuploidy.

CONCLUSION: Our data suggest a significant correlation between chromosomal 17 abnormalities and initiation of gastric carcinogenesis after Hp infection. The results indicate an early involvement and continuous accumulation of MSI in Hpinfected gashic cells that have entered the mulistip gashic carcinogenesis pathway, mainly through mechanisms involving activation of chomosome 17 retated oncogenes, aneuploidy and finally deregulation of cell cycle.

12th United European Gastroenterology Week (UEGW) 25 - 29 September 2004, Prague, Czech Republic, Gut 2004;53(Suppl VI):A270

IN SITU H. PYLORI INFECTION AND ONCOGENES' EXPRESSION IN PATIENTS WITH COLORECTAL CANCER J. Kountouras', L. Touloums', P. Karatzoglou', C. Zavos', D. Chatzopoulos', J. Venizelos', G. Lazaraki'

'Dept of Gastroealerology, 2nd Medical Climic, Ippokration Hospital, Aristotle University of Thessaloniki, Thessaloniki, Greece

INTRODUCTION: H. pylori infection has been classified by the WHO as carcriogen class t for gastric cancer, but no association has been reported with colorectal neoplasia.

colorectal neoplasia AIMS & METHODS: The aim of this pilot study was to investigate the incidence of Hill pybor infection in colonic turnour biogry specimens and to evaluate the pacogeness' expression involved in colorectal carcinogenesis. 11 patients (10 male, 1 female, weah age 7.2 4 £ 7.9 years) with colorectal concer underwent low

oncogenes' expression involved in colorectal carcinogenesis. 11 patients (10 male, 1 female, nean age 72.47.9 years) with colorectal cancer underwent low GI bact endoscopy, On colonoscopy were obtained biopsy specimens (me6-8) from timous and adjacent normal colonio bissue for evaluation of (14) presence of Highligh on highlight on the properties of the pyton highlight on the properties of the pyton highlight of the properties of oncogenes XISD, p53, Bet-2 and Bax by immunohistochemistry. (c) T-(CD4SRC) and B- (CD20) tymphacyte infiltration of colonic mucosta by immunohistochemistry. Moreover, serum samples were collected for the assessment of serum gastin by radioinmunosassy (RNA) fromativative 1003 gyrim). RESULTS: Histologic presence of Highlight of the properties of the pyton infection was found in 1004 to 14 pgm/l. RESULTS: Histologic presence of Highlight of the properties of the pyton infection was found in 1004 to 14 pgm/l. RESULTS: Histologic presence of Highlight on the through several properties of the pyton in 1004 to 14 pgm/l. RESULTS: Histologic presence of Highlight on the through several properties of the pyton in 1004 to 11 pgm/l. RESULTS: Histologic presence and low (1004) in all adjacent to and low (1004) in all adjacent to an adjacent to an adjacent to an adjacent to a several properties of the pyton in 1004 to 1004

have no impact on colorectal carcinogenesis

12th United European Gastroenterology Week (UEGW) 25 - 29 September 2004, Prague, Czech Republic, Gut 2004;53(Suppl VI):A181

HIGH DETECTION RATE OF CYTOMEGALOVIRUS (CMV) GENOME IN GASTRIC ADENOCARCINOMA AND PRECURSOR LESIONS TISSUE SAMPLES, A POSSIBLE ROLE IN THE PATHOGENESIS OF THE DISEASE? D. Dimitroviepoulos, M. Christodoulou, O. Xinopoulos, K. Tsamakrigi, A Fotopoulou, A. Pagadokastopoulou, G. Geraeimdas, N. Apostolinas, E. Paraskeves, Cencer Hospital, Halandri-Albens, Yuroboy, G. Paganakodau Research Unit, Albens, 1st Radafon-Onchogy Unit, "Pathology, Agios Sawas Cancer Hospital, Halandri-Athens, Greeca

INTRODUCTION: Human carcinogenesis is a multifactional process. The etiological factors and mechanisms still remain unclear. Is many cases wiruses and bacterias are involved. The aim of the present study was to estimate a possible role of CMV, alone or in correlation with helicobacter pytoi (HPI) in the

possible role of LMV, alone or in correlation with neurodaces pyion [172], in the pathogenesis of gestine adenocarcinoma.

AIMS & METHODS: A total of 80 non normanocompromised patients 40 with pasticic cancer and 40 with premalignant lessons (catoric gastrias gastic atrophy, intestinal metaplasia, gastric polyps), as well as 80 individuals with non endoscopic evident gastric disease, considered as control group, were enrolled in intestinal integralsal, gisbutic propsy) as well as a to incivities with now endoscope widentifigating tissease, considered as control group, were enrolled in the study. Were obtained biopic specimens from the maligrant and the prematignant lesions, 3 cm away from the lesions and also from encosporally healthy murcosa from the patients and the control group. The method used to identify the CMV genome was polymerase chain reaction FCRQT. The presence HP was investigated with CLO test and histological examination of mucosal gastustical analysis was performed correlating the results with epidemological parameters. (age. sex. smoking, acothol) which may be involved in the pathogenesis of the disease. RESULTS: The viral genome was detected in 11 out of 40 (27.5%) bissue RESULTS: The viral genome was detected in 11 out of 40, 137.5%) samples from malignant lesions, but in none of the biopic specimens from encoscopically healthy mucos a either from patients or from the control group. The X2 performed statistical analysis revealed a significant difference in the detection rate between the control population and the two examined groups of patients (pc.0.001) is significant statistical correlation was observed between the detection rate of Viral genome and the detection rate of HP in the two examined groups of patients of viral genome and the detection rate of HP in the two examined groups of patients. (pc.0.001) No. 100.001 (100.001) and the epidemiological parameters involved in gastino carcinogenesis. COMCI LISTON thus results inclinates a nose has called CMV on the action.

and the epidemiological parameters involved in gastric carcinogenesis CONCLUSION: Our results indicate a possible role of CMV in the gastric adenocarcinoma pathogenesis as an independent factor in a subgroup of patients.

12th United European Gastroenterology Week (UEGW) 25 - 29 September 2004, Prague, Czech Republic, Gut 2004;53(Suppl VI):A297

EVALUATION OF A NEW NEAR-PATIENT ANTIGEN STOOL TEST FOR THE DETECTION OF HELICOBACTER PYLORI

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INTRODUCTION: The detection of Helicobacter pytori (H. pytori) antigen in stool is a reliable non-invasive method for the diagnosis of  ${\bf H}$  pyton infection in unbreated patients. Recently, in-office stool tests have been developed allowing the rapid detection of H. pylori anagen.

AIMS & METHODS: We compared a new near-patient areau noctaromatographic stool fest (Simple H Pyl) with the standard enzyme (inked immunoassay (HpSA) Fifty H. Pylori positive and 50 negative patients who underwent esophago-gasso-Tright Positive and 30 regardly patients with underwein explayorgasor-duodenoscopy were selected over a period of 18 months. If yolion intection was diagnosed by using histology (Germsa stain), rapid urease test and urea breath last (UBT). Patients were classified as H. plyin positive 17 of the 3 tests were positive and H. pylori negative if all the 3 tests were negative. Equivocal cases were excluded. Fresh stool samples were stored at 2010 with testing. We assessed the sensitivity, specificity, positive predictive value (PPV), regainer predictive value (NPV), overall diagnostic accuracy (ODA) and cost of Simple H Pyl and HpSA and compared them with UBT.

RESULTS: The mean age of the patients was 55.8 years (range 23-80). The results are shown below (table). ROC curve analysis showed a cutoff value of 0.144 for HpSA. The cost was 24.2 Euros for HpSA. 23.8 for Simple H. Pyt and 55.7 for UST.

	Sensitivity	Specificity	PPV	I NPV	ACO
HidSA	82%	94%	93%	92%	88%
Simple H. Pvl UBT	78%	78%	76%	78%	79%
UBT	100%	100%	100%	100%	100%
Biodsy	103%	100%	100%	100%	100%
CLO test	94%	96%	96%	94%	95%

CONCLUSION: The overall performance of the Simple H pyl test is lower compared to UBT, HpSA and CLO test. HpSA is cheaper and should be preferred to UBT if available in the primary care setting.

Digestive Disease Week and the 105<sup>th</sup> Annual Meeting of the AGA, 15-20 May, New Orleans, LA Gastroenterology 2004;126(4):A-454

T1246

Molecular and Immunohistochemical Evaluation of the Expression of Telomerase in Gastric Carcinomas: Correlation with H. pylori Infection

Andreas Karameris, Panagiotis Sechopoulos, Theodore Rokkas

Telomerase is an enzyme associated with cellular immortaliazation and plays an important role in carcinogenesis. Telomerase adds hexameric repeats of 5'-TTAGGG-3' to the ends of chromosomal DNA called telomerase, the length of which increase proportionally to the cellular activation rate. Telomerase consists of 2 subunits, Telomerase RNA template (hTR) and Telomerase reverse transcriptase protein (hTERT).

Aim: To define hTR activity in the serum of H. pylori related gastric carcinoma patients and to compare these findings with the immunohistochemical expression of Telomerase in bioptic material taken from the same patients. Telomerase activity was measures by using the OtAGEN IneStep RT-PCR kt in human serum of 45 H. pylori-related gastric carcinoma cases (22 diffuse and 23 intestinal type). Histologically, Intestinal Metaplasia (IM) type I was observed in 5 cases, type II in 8and type III in 12 cases. The expression of Telomerase in the tissues was assessed immunohistochemically using a anti-Telomerase Moab (Novocastra, UK). Positive and negative controts were also included.

Results: Increased hTR activity as well as immunohistochamical expression of tissue Telomerase detected in 43/45 cases examined. In normal gastric mucosa, weak hTR expression was noted, limited to basal cells of gastric glands. hTR activity and Telomerase expression found to be higher in IM of type III than in type I and II (4:2:1 accordingly). H. pylori-negative controls constantly expressed very low levels of hTR activity.

Conclusion: H. pylori infection may be a strong trigger for hTR overecpression possibly through activation of epithelial "stem cells" during the procedure of intestinal metaplasia.