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| LOCAL CYTOKINE AND THE CD74 EXPRESSION IN THE *HELICOBACTE**PYLORI* ASSOCIATED GASTRITIS | Research Title  |
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| *Helicobacter pylori* infected gastric mucosa; the host immune response is unable to clear theinfection and may contribute to the associated pathogenesis; CD74 expressed on the surfaceof gastric epithelial cells, as an adhesion molecules used by *H. pylori* that may contributeto the proinflammatory immune response seen during infection. This study aimed to investigatethe role of local inflammatory cells infiltrating gastric mucosa that stained with IFN-γ and IL-6monoclonal antibodies, as well as CD74 expressed on gastric epithelial cells in theimmunopathogenic association with *H. pylori* gastritis. After the diagnosis of *H. pylori*infection by invasive and non-invasive diagnostic tests, patients were grouped as *H.**pylori* positive, (*n*=47) and *H. pylori* negative (*n*=17). The immune staining of IL-6 and IFN-􀁊were positive at high level in 89.4% and 91.5%, respectively in *H. pylori* infected patients. Inaddition, the presence of specific stained lamina propria (MNCs and PMNs) cells with IL-6 andIFN-􀁊 were significantly higher (*P*=0.0001) in the *H. pylori*-infected than in uninfected subjects; aswell as a significant difference in the CD74 expression (*p*= 0.005) between infected and uninfected patients. It is concluded from this study that there was a significant difference between infected and uninfected biopsy specimens in the expression of CD74 in association with increase local presence of IFN-γ and IL-6, as well as PMNCs and MNCs, in the gastric mucosa. | Abstract |