Histological findings in a *Helicobacter pylori* infected dyspeptic patient population

Ubhayawardana DLNL\textsuperscript{1}, Weerasekera DD\textsuperscript{1}, Fernando SSN\textsuperscript{1}, Kishokumar A\textsuperscript{2}, Wanigasooriya IWMP\textsuperscript{2}, Weerasekera MM\textsuperscript{1}, Gunasekera TDCP\textsuperscript{1}, Samarasinghe K\textsuperscript{1}

\textsuperscript{1}Faculty of Medical Sciences, University of Sri Jayewardenepura, \textsuperscript{2}Colombo South Teaching Hospital, Kalubowila

**Objectives:** The objective of this study was to compare endoscopic and histological findings with *H. pylori* infection in a dyspeptic patient population in Sri Lanka.

**Methods:** Eighty four dyspeptic patients who underwent upper gastro intestinal endoscopy at Endoscopy unit at Colombo South Teaching Hospital were enrolled. Two biopsy specimens were collected from the antrum during endoscopy. A biopsy was used for PCR targeting the glmM gene to identify *H. pylori* infection. The other specimen was fixed in formalin followed by paraffin embedding and stained with H&E stain. Histopathological changes were examined and gastritis was classified microscopically according to the modified Sydney system.

**Results:** Of the 84 dyspeptic patients 17 were positive by PCR and 15 patients were positive by histology for *H. pylori* infection. *H. pylori* infection was seen in 18% (11/62) of antral gastritis patients, 17% (2/12) of patients with gastric ulcer, 29% (2/7) of patients with gastric ulcer and gastritis. In the study population three patients had duodinitis but were negative for *H. pylori* infection. Of the total study population 69 had mild to moderate chronic non specific gastritis and 15 had *H. pylori* associated chronic gastritis according to histopathology. None of study population had gastric atrophy, mucosal ulceration or metaplasia by histological findings. All the biopsies of *H. pylori*-positive patients had infiltration of mononuclear cells and neutrophils.

**Conclusions:** The results show that 18% of patients with dyspeptic symptoms had *H. pylori* associated active chronic gastritis.