INTRODUCTION
Fiberoptic upper gastrointestinal (UGI) endoscopy is now a well-established procedure for the investigation and management of UGI disorders. It has become the procedure of choice for the majority of patients, perhaps for its diagnostic superiority over barium studies. Dyspepsia seems to be the most commonly presenting symptom of majority of the upper gastrointestinal pathologies, and is frequently associated with, gastro-esophageal reflux disease (GERD) or gastritis.

Dyspepsia, also known as Upset Stomach or Indigestion, refers to a condition of impaired digestion. Common causes of dyspepsia include various upper GI pathologies. Helicobacter Pylori is now believed to be a major factor in the pathogenesis of duodenal ulcer disease and gastritis. Upper gastrointestinal endoscopy, along with biopsy, is the efficacious way to diagnose underlying organic pathology. This prospective study was done on 240 patients and biopsies were taken as and when required in 108 patients. The main endoscopic diagnoses were duodenal ulcer disease, erosive duodenitis, and erosive antral gastritis. Abnormal endoscopic findings were present in 77.5% of the cases, while 22.5% were endoscopically normal. Identification of H. Pylor were made in gastric biopsies of 26 (76.47%) out of 37 patients with erosive gastritis and in 31 out of 35 patients with duodenal ulcer disease (87.5%). H. Pyloromay prove to be an important etiological agent in the pathogenesis of chronic erosive gastritis and non-ulcer.

MATERIAL & METHODS
The study involved 240 patients seen over a 10-year-period from June 2010 to October 2012. Excluded from the study were patients with gallbladder, liver, pancreatic, renal and peritoneal diseases, as well as parasitic infestations.

Presenting symptoms included dysphagia, Epigastric pain and/or upper abdominal discomfort related to meals, heartburn, nausea, vomiting, and any of these symptoms with weight loss. Patients with lactase deficiency symptoms, lower abdominal pain, irritable bowel syndrome and hematemaesis or melena were not included in the study. An upper abdominal ultrasound, complete blood count, erythrocyte sedimentation rate, prothrombin time, partial thromboplastin time, platelets count, random blood sugar, urine and stool analysis were performed on all patients prior to their UGI endoscopic examination.

PROCEDURE
The endoscopy was performed after applying local lidocaine spray to the throat. A total of 36 (15%) patients were given midazolam 1–10 mg intravenously before endoscopy. The remaining 204(85%) patients were endoscoped without sedation upon their request. The UGI endoscopy included a general examination of the oesophagus, stomach and duodenum. The endoscopic diagnosis of hiatal hernia, esophagitis, gastritis, gastric ulcer, duodenitis and duodenal ulcer were made according to the accepted standard criteria. Erosions with papillomatous or granulated changes of the stomach mucosa were grouped under chronic erosive gastritis as endoscopic diagnosis.

Biopsies for histopathological diagnosis and Helicobacter pylori detection were obtained in all cases with suspected malignant disease, and in patients with erosive antral gastritis, gastric and duodenal ulcer diagnoses.

Additionally, biopsies were obtained from patients with polypoid lesions, post-bulbar duodenal lesions, as well as those with erosive esophagitis, and all patients with esophageal erosions and ulcers of those suspected to have Barrett’s esophagitis.

The biopsies taken were fixed in 10% buffered formaldehyde and processed in the usual manner for histological examination. For the histological evaluation, routine hematoxylin and eosin (H&E) stained paraffin embedded sections were used. Where needed, more sections were cut and stained with H&E, D-pas for mucin, Ziehl-Neelsen for acid-fast bacilli (AFB), and Warthin-Starry silver impregnation for identification of Helicobacter pylori organisms. For the diagnosis and classification of gastritis, the system adopted by Whitehead et al. was used.10 The procedure and its possible complications were explained to each patient and their consent obtained prior to endoscopy.

RESULTS
Figure 1: H & E Staining In H.Pylori Positive Biopsy Sample
The main indications for endoscopy were epigastric pain (88%), heartburn (31%), nausea and vomiting (23%), dysphagia (7.8%), weight loss (6.4%), and distention (4.5%). Out of the 240 patients subjected to UGI endoscopy, 50% were male, and 50% were female. Age and sex distribution were as shown in Table 1. The endoscopic findings are summarized in Table 2.

Of all the esophageal disorders, chronic esophagitis was the most common endoscopic finding (8.75%), followed by hiatal hernia (4.17%) and esophageal ulcers (1.25%). In the stomach, the main finding was chronic gastritis, with erosions amounting to 15.42% of all endoscoped patients, while benign gastric ulcer was found in 5% of patients, and malignant gastric ulcer in only 1.66%. Duodenal ulcers were encountered in 24.17% of all patients, while those with duodenitis, with or without erosions, constituted 16.66%. Gastric/duodenal ulcer ratio was 1:4.83.

The mean age for patients with duodenal ulcer was 38.2 years, and that for those with gastric ulcers was 52.4 years. Out of the 240 endoscoped patients, 108 (45%) patients were biopsied. The biopsies were from the stomach in 75 (69.44%); from the esophagus in 23 (21.3%); and from the duodenum in 9 patients (8.33%).

The histological diagnoses of the biopsied patients were summarized in Table 3. Of interest was the identification of Helicobacter bacilli in gastric biopsies of 26 (76.47%) out of 37 patients with erosive raised localized antral gastritis. In contrast, bacilli were identified in only 7 of 11 (63.64%) non-ulcer dyspeptic patients with histologically normal mucosa. Helicobacter pylori was found in 31 patients out of 35 consecutive patients with duodenal ulcer disease (including patients with duodenitis) (87.5%), 9 patients out of 12 patients with gastric ulcer disease (75%).

Malignancy was diagnosed in 5 patients (2.08%). The most common was gastric adenocarcinoma in 4 patients (80%) from which 3 patients (75%) had positive Helicobacter pylori. Esophageal squamous cell carcinoma was seen in 1 patient (20%).

**DISCUSSION**

UGI endoscopy is an easy, safe and cost-effective more specific than barium meal studies. In our study, abnormal endoscopic findings were present in 77.5% of the cases, while 22.5% were endoscopically normal. Great proportions of the latter group of patients were female and were probably suffering from functional dyspepsia.

Adenocarcinoma of the stomach in our study showed a higher prevalence than what was reported. Carcinoma of the stomach is less common than in Southeast Asia, Japan and Europe. The results of our limited survey do not support or negate such claims.

Helicobacter pylori in patients with different upper gastrointestinal tract pathologies have been documented very frequently. This study matches the overall incidence rate of H. Pylori all over the world.

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CONCLUSION
In conclusion, we found that highest incidence of dyspepsia occurs in the age group 30-40 years of age. We also found that, fiberoptic endoscopy is a safe, acceptable and mandatory diagnostic procedure. Early endoscopy has a crucial role in making early diagnosis. The main endoscopic diagnoses were duodenal ulcer disease, erosive duodenitis, and erosive antral gastritis. Comparative analysis showed notable variations in the incidence of various endoscopic findings, in particular peptic ulcer disease and malignancies of the stomach and esophagus. Helicobacter pylori may prove to be an important etiological agent in the pathogenesis of chronic erosive gastritis and non-ulcer.

For the patients having persistent symptoms even after all investigations and all drug trials, they’re diagnosed to have ‘Functional Dyspepsia’.

In General, the "Prompt Endoscopy and Directed Treatment" should be the approach for choice, although it is a bit costly approach, but straight away gives the accurate diagnosis in most of the cases.

REFERENCE