work is required to develop oesophageal examination techniques using MACE.

**PTU-121** THE VALUE OF ENDOCOPIC BIOPSIES IN ROUTINE UPPER GASTROINTESTINAL ENDOSCOPY

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**Introduction** The BSG and AUGIS quality standards in upper gastrointestinal endoscopy recommend taking biopsies for histological examination to diagnose inflammatory, pre- or malignant lesions which may or may not be visible to the naked eye [Beg, Gut 2018]. This may increase the duration and cost of the procedure and potentially reduce the focus on mucosal inspection. This study aimed to investigate the diagnostic value (changes in diagnosis and contribution to management) added by histology and its cost.

**Methods** Patients undergoing consecutive diagnostic OGDs performed by four fellows were recruited. Incomplete, surveillance or therapeutic procedures, procedures for dysphagia and those arranged in order to obtain histology (eg. positive coeliac serology) were excluded. Biopsies were performed according to BSG quality standards [Beg, Gut 2018]. The utility of biopsies (changes in diagnosis and contribution to management) were examined from endoscopic and histological findings.

**Results** Of 509 patients examined, 314 were included. OGD was performed for dyspepsia (66%), anaemia (26%), weight loss (16%), diarrhoea (2%) and vomiting (1%). Biopsies occurred in 86% of patients with an mean of 1.5 samples per patient biopsied. Biopsy sampling provided additional pathological information not evident at endoscopy in 28% of cases. However, if benign pathologies are excluded (mostly chemical or Helicobacter gastritis or duodenitis), this falls to 6.7% (n=18: dysplasia n=3, adenocarcinoma n=1, gastric intestinal metaplasia (GIM) n=7, villous atrophy (VA) n=2, Barretts n=5). In total, management change occurred in 19% consequent on histological findings, but this falls to 12% (n=34: adenocarcinoma n=2, dysplasia n=3, GIM, n=10, Barretts n=15, VA n=3, peptic stricture n=1) where Helicobacter pylori (which can be detected by other non-invasive methods) eradication is excluded.

Fifty seven focal lesions were biopsied where dysplasia or cancer was diagnosed in 7% (1/14 oesophageal, 2/35 gastric and 1/8 duodenal). Barretts, GIM and VA were found more commonly in abnormal compared to normal mucosa (See table 1). The overall cost of tissue sampling approximates to £17,100 (£82 per person). Routine biopsies of patients with only normal mucosa costed over £3,500.

**Conclusions** Although 86% undergoing OGD have biopsies taken, contributing to aetiological understanding in 28%, only a small minority (6.7%) have pre-malignant or malignant pathologies and result in a change in management in only 12%. Non-targeted biopsies are of limited value and costly when sampled from normal mucosa.

**Abstract PTU-121 Table 1** Diagnostic yield for premalignant conditions in abnormal vs normal mucosa

<table>
<thead>
<tr>
<th>Condition</th>
<th>Abnormal (%)</th>
<th>Normal (%)</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barrett’s</td>
<td>58% (14)</td>
<td>0% (0)</td>
<td>0.02</td>
</tr>
<tr>
<td>GIM</td>
<td>81% (9)</td>
<td>18% (2)</td>
<td>0.05</td>
</tr>
<tr>
<td>Villous atrophy</td>
<td>20% (2)</td>
<td>1% (1)</td>
<td>0.02</td>
</tr>
</tbody>
</table>

**PTU-122** A PILOT DATA IN UNDERSTANDING THE CAUSES & TEMPORAL RELATIONSHIP OF ELECTIVE ENDOSCOPY UNPLANNED ADMISSIONS WITHIN 8DAYS

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**Introduction** We aim to understand the causes and temporal relationship of unplanned admissions within 8 days of elective endoscopy as per JAG recommendation.

**Background** We retrospectively examined all unplanned admissions within 8 days of elective endoscopy from Jan-June 2018. Demographic and co-morbidity data as defined by Charlson Comorbidity Index (CCI) and causes of admissions were collected.

Unplanned admissions were divided into endoscopic related and non-endoscopic related causes. The former was further divided into direct (perforation, infection, bleeding, and post-polypectomy syndrome) and indirect (sedation-related, displaced NG/NJ tube, or abdominal pain) complications.

Admissions were then classified as early (Day 0–2) or late (Day 3–8). Data was collected using Microsoft Excel and analyzed for any association between endoscopic complications with admission time.

**Results** Of the 3482 elective endoscopy patients, 65(1.18%) had unplanned admissions within 8 days. The majority 62/65 (95%) had 1 or more co-morbidities (CCI score ≥1). High CCI scores may thus be a risk factor for unplanned admissions. Of all endoscopic procedures, ERCP had the highest admissions rate. 12 of 164(7.3%) patients undergoing elective ERCP had unplanned admissions. Colonoscopy and sigmoidoscopy had the lowest unplanned admission rate at 12/2038 (0.5%) and 4/788 (0.5%) respectively.

Of the 65 unplanned admissions, 26/65(40%) were admitted within the first 72 hours and 39/65(60%) thereafter. Most early admissions (14/26(54%)) were related to endoscopic complications while the remaining were due to a non-endoscopic cause (12/26=46%).

In contrast, the majority of late admissions were related to non-endoscopic causes (31/39 =80%). Endoscopy related complications in this timeframe were minimal (8/39=20%).

Overall, ERCP has the highest risk of direct (8/164=4.8%) and indirect complications (2/164=1.2%) amongst the unplanned admissions. In addition, ERCP carries a significantly higher risk of direct than indirect complications (p=0.0361). This may therefore explain the highest unplanned admissions rate found in ERCP compared to other endoscopic procedures.

**Summary** Our study provides crude data analyzing the risk of unplanned admissions related to elective endoscopic procedures in a busy DGH endoscopy unit. We aimed to understand if there was any temporal relationship in unplanned admissions post-elective endoscopy. Subsequent data demonstrated majority of direct complications of endoscopy were admitted within the first 72 hours with ERCP carrying the...