HAS COLONOSCOPY BECOME A TEST TO FIND INCIDENTALOMAS?

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Introduction Demand for colonoscopy has risen over the years and many hospital trusts in the UK are struggling to cope with the demand. This causes many deserving patients waiting longer for the procedure resulting in increasing patient anxiety along with potential clinical risks of delayed diagnosis. We were interested in looking at the correlation between indications and findings at colonoscopy and to explore the possibility of refining the referral criteria to improve diagnostic yield and to reduce demand. We had a specific interest in rectal bleeding as a symptom.

Methods Colonoscopy data for 2013 was sought giving us a total of 2021 procedures which was retrospectively analysed by using the reporting software. This number was then filtered by indications for colonoscopy which included rectal bleeding with or without associated factors which left 378. We analysed all the pathology in particular that which was proximal to the splenic flexure and whether the findings showed a causal link to the indication.

Results There were 52 (13.8%) procedures among these which found pathology proximal to splenic flexure and therefore beyond the extent of examination of flexible sigmoidoscopy that can directly be linked to the symptoms. Of these 52, 12 (3.2%) were attributed to the indication for the referral. 86.2% of colonic pathology could be found potentially using flexible sigmoidoscopy. Looking at the indications in detail in relation to significant pathology proximal to the splenic flexure only; diarrhoea (8/69) 11.6%, iron deficiency anaemia (1/30) 3.3% and bleeding only (2/89) 2.2% had significance.

Conclusion Colonic pathology proximal to splenic flexure with a causal link to the indication is rare when investigating rectal bleeding unless associated with diarrhoea. Flexible sigmoidoscopy may be more appropriate in other instances.

Disclosure of Interest None Declared.

Abstract PWE-045 Figure 1

EYE TRACKING ASSESSMENT SUGGESTS FASTER TIME TO DETECTION AND GREATER ATTENTION SPAN FOR DYSPLASTIC LESIONS WITH AUTOFLUORESCENCE COMPARED TO WHITE LIGHT ENDOSCOPY


Introduction Surveillance endoscopy is crucial to the management of Barrett’s oesophagus to diagnose and treat dysplasia. Recent studies have confirmed that increased time of inspection of the Barrett’s mucosa increases detection rates. However increasing inspection time has both clinical and economic implications. Advanced imaging techniques like autofluorescence imaging (AFI) improves detection of dysplastic lesions, but little is known about the time taken to detect abnormalities with these modalities.

Methods We presented a series of endoscopic images of dysplastic lesions within the oesophagus to novice endoscopists on a computer screen. Each of the 10 lesions was presented in white light endoscopy (WLE) and AFI modes. The subjects reviewed these images in a random order with 10 seconds for each image. They were tasked with identifying the lesion as fast as possible and fixating on it for the duration of presentation. An eye tracking system (Grinbath eye tracker, College Station Texas) was used to record eye movements of the subjects and we calculated the percentage of time it took to fixate on the lesion and the percentage attention time on each lesion.

Results A total of 26 novice endoscopists were recruited to the study, resulting in a total of 260 presentations of WLE images and 260 presentations of AFI images. The average time to fixation on the lesion was significantly less (p < 0.05) in AFI (5.47 seconds) compared to WLE (6.17). In addition, the percentage attention span on the lesion following detection was significantly greater for AFI (58.12%) than WLE (49.96) (p < 0.0005).

Disclosure of Interest None Declared.
Conclusion AFI reduces time to detection in novice endoscopists and could be a valuable training tool for trainees to improve their skills in detecting dysplasia in a time efficient manner. Advanced imaging endoscopic techniques may therefore help trainee endoscopists more than experienced endoscopists.

Disclosure of Interest None Declared.

PWE-047 WHEN SHOULD I TAKE TERMINAL ILEAL BIOPSIES? EXPERIENCE FROM A SINGLE UNIT

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Introduction Terminal ileum (TI) intubation at colonoscopy may be useful in the investigation of patients with diarrhoea or possible inflammatory bowel disease (IBD).1,2 The yield of TI biopsies is variable and there are no standards for current practice.2,3 Furthermore, in the UK concerns remain regarding the potential for prion transmission.

Methods We aim to establish the yield of TI biopsies in a single unit. All TI biopsies recorded on the pathology system in a 3-year period were reviewed. Colonoscopy reports and case notes were reviewed to establish if biopsy results were clinically relevant (defined as altering management). Statistical analysis was performed using SPSS. P values were calculated using Fisher’s exact test to show any difference in biopsy yield between normal and abnormal looking mucosa for each indication. The values were calculated for all abnormal biopsy results and clinically relevant biopsy results.

Results 129 TI biopsies were taken between September 2010 and September 2013, 49 (38%) male and 80 (62%) female. Mean age 44 years (s.d. 17.2). There were 29 (22.5%) cases of known IBD. 5 (3.9%) cases were completion colonoscopies after colorectal cancer surgery where TI biopsies are taken to prove a negative margin. A high-risk recurrence was considered to be more than or equal to 10 mm and a low-risk recurrence less than 10mm.

Abstract PWE-047 Table 1

<table>
<thead>
<tr>
<th>Indication (n)</th>
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<th>Ileoscopy normal</th>
<th>P value (all/ clinically relevant)</th>
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<td></td>
<td>Number</td>
<td>Biopsy abnormal</td>
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<tr>
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<td>9</td>
</tr>
<tr>
<td>(29)</td>
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<td>Total*</td>
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<td>21</td>
</tr>
<tr>
<td>(129)</td>
<td></td>
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</tr>
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</table>

*includes alternating bowel habit, rectal bleeding, low Hb, iron deficiency anaemia, weight loss. +some had diarrhoea and abdominal pain so feature more than once.

Disclosure of Interest None Declared.

PWE-048 RECURRANCE RATES FOLLOWING PIECemeAL RESECTION OF 2 CM ADENOMATOUS POLYPS

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Introduction Piecemeal endoscopic mucosal resection (pEMR) is a minimally invasive endoscopic technique for the resection of sessile/flat colorectal polyps (larger than 2 cm). It has been suggested that patients should have a check procedure at 3 or 6 months to ensure complete initial excision of the lesion, and subsequent colonoscopic surveillance at between 1 and 3 years to identify recurrence.

Methods This is a retrospective observational audit, including all patients with sessile/flat colorectal polyps of more than 20 mm in diameter who underwent pEMR in 2010, across 4 London Teaching Hospitals. Patients were either local or tertiary referrals. Data was obtained from colonoscopy and histology reports. The primary outcome measured was the follow up rate at first, check colonoscopy (3 months, 6 months or 1 year), and at the subsequent surveillance colonoscopy (1, 2 or 3 years). Recurrence rate at both check and surveillance was a secondary outcome. A high-risk recurrence was considered to be more than or equal to 10 mm and a low-risk recurrence less than 10mm.

Results 153 patients were included in the cohort; 53 (34.6%) patients were local referrals and 100 (65.4%) were tertiary referrals. 128 (83.6%) patients had a check colonoscopy and 74 patients (49.0%) had a surveillance colonoscopy. Adenoma recurrence occurred in 44 (34.4%) patients at check colonoscopy, with 3 (2.4%) polyps having high-risk recurrence, and in 12 (16.3%) patients at surveillance colonoscopy, with 3 (4.1%) biopsies and improves patient care as normal results can be communicated sooner to the patient.

REFERENCES

Conclusion AFI reduces time to detection in novice endoscopists and could be a valuable training tool for trainees to improve their skills in detecting dysplasia in a time efficient manner. Advanced imaging endoscopic techniques may therefore help trainee endoscopists more than experienced endoscopists.

Disclosure of Interest None Declared.