scarring. Endoscopic clearance was achieved in 93% of cases. Need for surgery (n = 21): 1 patient for incomplete resection & 20 for suspicion of cancer in EMR specimen. At endoscopic follow up 98% of cases had achieved complete clearance.

Risk of recurrence was associated with lesion size > 50 mm & scarring due to previous EMR attempts. This was unaffected by technique (EMR or H-ESD). Perforation/microperforation was more likely in the H-ESD Cohort, but the overall complication rates were similar for H-ESD and EMR cohort.

Conclusion Both techniques achieved an excellent overall cure rate for large & challenging polyps. This is the first large series comparing the two techniques and demonstrates that polyp cure rate was equally good with both techniques. H-ESD technique was used more commonly for polyps with significant scarring & was associated with slightly higher perforation rates. Our data does not demonstrate any significant outcome benefit of H-ESD technique over the conventional EMR technique.

Disclosure of Interest None Declared

OC-011 BEWARE THE CAECUM: COLONOSCOPIC ADVERSE EVENTS IN THE ENGLISH NHS BOWEL CANCER SCREENING PROGRAMME

doi:10.1136/gutjnl-2013-304907.011

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Introduction The NHS bowel cancer screening programme (BCSP) commenced in 2006 and is one of the world's largest organised screening programmes. Minimising adverse events (AEs) is an essential part of the programme. This study examines colonoscopic AEs and associated risk factors.

Methods The study examined the AEs of bleeding, post-procedure pain and perforation on all colonoscopies conducted between Aug 2006 and Jan 2012 within the BCSP. Crude AE rates were reported and logistic regression used to examine the risk of an AE against various explanatory variables, including age, gender, polyp size, morphology, location and therapy device. Detailed analysis was conducted on the subset of single polypectomy procedures.

Results Data are from 130,831 colonoscopies including 167,208 polypectomies. There were 30,896 single polypectomy procedures. Caecal polyp location (but not the rest of the proximal colon) and increasing polyp size were the two most important factors predicting risk of bleeding, bleeding requiring transfusion, post-procedure pain and perforation. After adjustment for polyp size the RR for bleeding requiring transfusion for caecal diathermy snare polypectomy was 13.5 (95%CI 4.5–40.6) relative to the distal colon. After adjustment for polyp size the RR for perforation occurring during caecal non-pedunculated polypectomy was 7.7 (95%CI 1.3–46.1) relative to the distal colon. The predicted risk of bleeding requiring transfusion for a 50mm caecal polypectomy was as high as 1 in 22. Further analysis applying estimated risks from the single polyp analysis to multiple polypectomies showed that the absolute risk was not additive.

Conclusion This national study is the largest to focus on polyp-specific risk factors. Uniquely, we have been able to focus on colonoscopies where only one polypectomy was performed, allowing a detailed examination of risk to be undertaken where the characteristics of the polyp causing the AE can be clearly established. We have confirmed that the greatest risk factor for an AE is the size of the polyp.

Perhaps more importantly however, for the first time we have demonstrated a substantially and significantly increased risk for both bleeding requiring transfusion and perforation from caecal

polyps (but not in other sites in the proximal colon) for a given polyp size, when compared to the distal colon. Endoscopists should take particular care in resecting caecal polyps.

Additional polypectomies, adjusted for polyp size and location, carry a much lesser risk and therefore confirm that performing multiple polypectomies during the same procedure maximises benefit whilst incurring a lesser level of harm per polyp resected.

Disclosure of Interest None Declared

OC-012 HOW COMMONLY IS OESOPHAGEAL CANCER MISSED AT ENDOSCOPY (A UK PRIMARY CARE BASED STUDY)?

doi:10.1136/gutjnl-2013-304907.012

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Introduction The frequency of upper gastrointestinal cancer being diagnosed following a negative oesophagogastrroduodenoscopy (OGD) up to 3 years previously in selected single unit series ranges from 6.7–14%. We have examined how often oesophageal cancer (OC) is missed at OGD in a large unselected primary care cohort and associated risk factors.

Methods All subjects with OC from a UK primary care database (The Health Improvement Network (THIN)) were studied. THIN covers over 6 million patients and is regionally and demographically representative of the UK population. A nested case-control study was performed with cases of 'missed OC' subjects who underwent OGD 1–5 years prior to their OC diagnosis and controls subjects who did not have OGD 1–5 years prior to their OC diagnosis. Logistic regression analysis was used to study associations with having an OGD that potentially missed OC.

Results 5354 subjects with OC were identified (3561 (67%) male, mean age 71 ± 11years) and 9187 OGD were analysed. 380 subjects (237 (62%) male, mean age 72 ± 11years) had OGD 1–5 years prior to OC diagnosis (715 OGD, mean 1.9 per subject). 266 (5.0%) subjects had OGD 1–3 years and 144 (2.7%) had OGD 3–5 years prior to OC diagnosis. 180 (47.4%) of OGD which did not diagnose OC 1–5 years previously had an abnormality detected (Oesophagus – Barrett's 59 (15.5%), hiatus hernia 45, oesophagitis 16, gastro-oesophageal reflux disease 17, stricture 8, ulcer 7; Stomach – gastritis 25, ulcer 7, polyp 4; Duodenum – duodenitis 17, ulcer 8, coeliac disease 1). The 'missed OC' subjects had a total 329 primary care consultations 1 year prior to their OGD that missed OC. 'Alarm symptoms' were present at 139 consultations (38 anaemia, 1 abdominal mass, 78 dysphagia, 20 haematemesis/melaena and 6 weight loss). Subjects presenting with anaemia (OR 2.05, 95%CI 1.4–3.1, p = 0.0006), haematemesis/melaena (1.82, 1.1–3.2, p = 0.03) or dyspepsia (2.20, 1.7–2.8, p < 0.05) were more likely to have had an OGD that missed OC. In contrast, subjects with dysphagia (0.74, 0.5–0.9, p = 0.04) or weight loss (0.39, 0.2–0.9, p = 0.02) were less likely to have an OGD that missed OC. Logistic regression did not find any association between age (0.7, –0.5–1.8, p = 0.3) or female gender (1.2, 0.9–1.5, p = 0.07) with OGD that failed to diagnose OC 1–5 years prior to OC diagnosis.

Conclusion Missing OC at OGD was relatively uncommon in this unselected cohort with 5% of OC subjects having had an OGD 1 – 3 years prior to diagnosis that did not diagnose OC. Presenting with anaemia, haematemesis/melaena or dyspepsia were positively associated with missing OC at OGD. In contrast, subjects with dysphagia or weight loss were less likely to have OC missed at OGD. Many of the OGD which missed OC had an abnormality recorded, with Barrett's oesophagus reported in 15.5%.

Disclosure of Interest None Declared