**Introduction**

Although colonoscopy is considered the optimal procedure for bowel cancer screening, it remains an imperfect tool for cancer prevention, due to missed adenomas and early cancers. Optimal imaging modalities, innovative scopes and accessories (cap-assisted colonoscopy) have attempted to decrease the adenoma miss rate. Adenoma detection rates (ADR) have been shown to be a key performance indicator.

**Methods**

Endocuff-vision is a simple accessory mounted at the end of the scope with a proximal row of 6mm length soft plastic, finger-like projections. During scope insertion, these projections invert towards the shaft of the tube and during withdrawal they evert to hold back the colonic folds augmenting the forward endoscopic views. ADRs were recorded and evaluated for screening colonoscopy procedures before and after introduction of Endocuff-vision.

**Results**

To date, four screening endoscopists (BPS, STG, CF, AH) have used the Endocuff-vision as part of a clinical evaluation process from August 2013 until November 2013. From our local Bowel Cancer Screening Program database, the figures of caecal intubation rate (CIR) and the ADRs of the screening endoscopists during April 2013 to July 2013 before Endo-cuff were retrieved:

- BPS: CIR-100%/ADR-62.72%
- STG: CIR-95.84%/ADR-40.03%
- CF: CIR-93%/ADR-36.76%
- AH: CIR-96.25%/ADR-55.35%

Prior to the introduction of the Endocuff-vision, the cumulative CIR was 96.27% and ADR was calculated to be 48.71%.

The total number of procedures where Endocuff-vision has been mounted was in 30 occasions (BPS-10, STG-11, CF-3, AH-6) with similar CIR rates but increased cumulative ADR of 65.5%. On 3 patients the Endocuff-vision was electively removed from the scope due to insertion difficulties through fixed sigmoid colonic segments secondary to severe diverticular disease. There were no adverse events reported during the trial evaluation period.

**Conclusion**

In this small pilot study, use of the Endocuff appeared to improve the ADR by 17%. There were no complications from the use of the cuff although it was electively removed in 3 cases with severe sigmoid colon diverticulosis. Further randomised evaluation of this simple novel device is warranted.

**Disclosure of Interest** None Declared.

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**PWE-068 ENDOSCOPIC RESECTION OF COMPLEX COLONIC POLyps – WHERE DO THE BOUNDARIES lie?**

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**Introduction**

The role of endoscopic resection for colon polyps previously destined for surgery is expanding. However, surgery remains appropriate in some cases. The aim of this study was to examine tertiary polyp referrals that did not undergo endoscopic polypectomy. The objectives were to determine (i) the proportion of polyps referred for polypectomy that were not endoscopically resected, (ii) the primary reason in this decision-making and (iii) factors associated with polyps that were not endoscopically resected.

**Methods**

A prospective observational study of all polyps referred for endoscopic resection (ER) to a tertiary centre between January 2010 and August 2012 was performed. For each case, ER was either completed, abandoned or not attempted. The primary reason for abandoning or not attempting ER was documented. Demographics, polyp characteristics and histology were recorded and a comparative analysis (using chi-square test and independent-samples T test) was made between patients in whom ER was abandoned or not attempted with those in whom ER was completed.

**Results**

ER was either abandoned (n=29) or not attempted (n=55) in 84 of 423 polyp referrals. This was most commonly because of suspected invasive cancer (45/84). Of these 45 polyps, 12 had characteristic macroscopic features of cancer on inspection. In 24/45, invasive cancer was suspected after advanced endoscopic examination (including surface morphology (Paris/NICE/Kudo classification and forceps palpation). In 9/45, invasive cancer was only suspected during attempted ER, which was then abandoned. The remaining 41/84 polyps for which ER was abandoned or not attempted appeared benign. The positive and negative predictive values of endoscopic evaluation for the diagnosis of invasive cancer were 86% and 96% respectively. The benign-appearing polyps were not endoscopically resected because of (i) a high risk location (ie. overlying the appendix, IC valve or a diverticulum), n = 12; (ii) difficult access, n = 12; (iii) size ≥ 5 cm combined with other factors, n = 8; (iv) age/ comorbidities, n = 4 or (v) poor tolerance of colonoscopy, n = 2. Forty-six percent of these benign polyps were in the caecum. In comparison with patients who underwent complete ER, those in whom ER was abandoned or not attempted were more likely to be female (56 vs. 37%, P < 0.001), had larger mean polyp size (4.7 cm vs 3.7 cm P < 0.001), and had a higher incidence of polyp cancer on histology (47 vs. 2.7% P < 0.001).

**Conclusion**

Twenty percent of polyps referred to a tertiary institution for polypectomy may not be suitable for endoscopic resection. This is most commonly due to the presence of invasive cancer which can usually be recognised by endoscopic examination.

**Disclosure of Interest** None Declared.
hemostasis. The following parameters were measured in 3 female pigs: histological assessment and pre-coagulation endoscopic performance. All animals were recovered for 2, 5 and 7 days.

**Results** In animal one, microwave bursts of 5, 10 and 15 sec were applied to the revealed submucosa compared to standard monopolar bursts of 1 sec. Histology showed that 5 and 10 sec of microwave has equivalent histological appearance with standard monopolar preserving the serosal integrity with mild muscle alteration. In animal 2 and 3, microwave was applied for 9 sec in 6 lesions, standard monopolar was applied for 1–2 sec in 6 lesions and standard bipolar was applied for 3–4 sec in 6 more lesions. Histology showed viable serosa with no muscle alterations in microwave group, viable serosa with mild muscle alterations in standard bipolar and viable serosa with mild/moderate muscle alterations in standard monopolar group. In all cases muscle layer cells were contiguous. During the pre-coagulation endoscopic assessment, all modalities were applied to coagulate vessels with median calibre of 2 mm before and after dissection. Effective pre-coagulation was achieved in 3 out of the 6 visible vessels (microwave group) and in 2 out of the 6 visible vessels (standard monopolar and bipolar groups). Effective coagulation (defined when blood flow stopped) was achieved after the dissection, in all three groups.

**Conclusion** Compared to Coagrasper (monopolar) and Gold Probe (bipolar), the microwave modality of Speedboat RS2 appears to be equivalent during the pre-coagulation phase. The safety profile of coagulation phase resembles the profile of the other two modalities but with less muscle alterations in the histological specimens.


**Inflammatory bowel disease II**

**PWE-070 PERSPECTIVES AND ATTITUDES TO COLONOSCOPY IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE**

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**Introduction** Visualisation of mucosa at ileocolonoscopy (IC) remains the gold standard in the assessment of mucosal healing (MH) in patients with inflammatory bowel disease (IBD). MH is a key endpoint in assessing response to therapy. This will invariably mean an increased endoscopic burden on these patients. We aimed to investigate IBD patients’ perspectives on this, as well as their tolerance of IC.

**Methods** Consecutive patients attending IBD clinic between September and December 2013 were questioned on their experience of IC. Data on sex, age, disease type (Crohn’s (CD) or ulcerative colitis (UC)), duration of illness, and no. of IC was obtained. They were asked to grade various components of the IC experience (concerns about complications, bowel preparation, disruption to life, procedure discomfort, travel to hospital) on a standardised tolerance scale from 1–5. They were also asked to qualitatively rate their overall experience of IC (not unpleasant/neither unpleasant nor pleasant/bearable/unpleasant/very unpleasant). Finally, they were asked how often they would be prepared to undertake IC in the future.

**Results** 98 patients responded (46% male). Mean age was 43.2 years. 33 had UC, 50 had CD, and 11 were unsure of diagnosis. Mean no. IC was 3.7, 62% had a disease duration ≥5 years, with only 4% diagnosed in the previous year. Mean tolerance scores for the group were: concerns about complications 2.6, bowel preparation 3.0, disruption to life 2.4, discomfort during procedure 3.0, travel to/from hospital 1.7. Comparisons between patient subgroups CD versus UC, age ≥55 years versus age <55 years, ≥4 IC versus <4 IC, and diagnosis ≥5 years versus diagnosis <5 years, revealed no significant differences in scores. However, comparison between sexes showed females were more bothered about the procedure than males (3.0 vs. 2.1, p = 0.02), were less tolerant of bowel preparation (3.5 vs. 2.3, p < 0.001), experienced more disruption of their lives (2.9 vs. 1.9, p < 0.001) and were more troubled by travel concerns (2.0 vs. 1.4, p = 0.02). The majority of the patients felt IC was bearable (53%) with only 13% describing it as very unpleasant. 55% would have the procedure as frequently as required if their physician felt it appropriate. 7% would only have IC every 5 years.

**Conclusion** Bowel preparation and procedural discomfort are the most bothersome aspects of IC amongst IBD patients. There are clear differences in tolerance between female and male patients, and these results should prompt endoscopy units to find ways of improving patient acceptability. This could be provided in the form of a pre-test telephone consultation. A minority of patients were reluctant to increase their frequency of IC, which may be relevant in the monitoring of MH in their future management.

**Disclosure of Interest** None Declared.

**PWE-071 EFFICACY OF INFlixIMAB AS SECOND-LINE BIOLOGIC IN CROHN’S DISEASE**


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**Introduction** A common therapeutic strategy in events of failure of the first-line anti-TNFbiologic in Crohn’s Disease (CD) is to switch to another biologic agent from the same class. There is a significant body of evidence to support using adalimumab (ADA) as second-line therapy following infliximab (IFX) intolerance or loss of response. The aim of this study is to provide evidence around the use of IFX as second-line therapy in CD, an empirical strategy gaining popularity since both agents have recently been licensed as first line agents for moderate-to-severe CD.

**Methods** Inflammatory Bowel Disease (IBD) specialists from 5 hospitals were invited to contribute all suitable cases through a secure online questionnaire. Data was gathered on patient demographics, disease extent and behaviour, prior or concurrent therapies, duration and outcome of ADA and IFX therapy and reason for switching. Response to the biologic was determined using Physician’s Global Assessment (PGA) by each IBD specialist.

**Results** Data on 28 patients (10 male) were gathered. Median duration of disease before starting biologics was 4.5 years. Of the 19 patients on ongoing IFX, 5/19 (26%) are on monotherapy 11/19 (58%) are on concurrent immunomodulator 2/19