2010 and 10/12/2016. The records were then histology matched.

The data was then analysed using the Anacondas™ 3 distribution of Python, using numpy, pandas, matplotlib and seaborn to clean and prepare, plot and perform statistical analysis on the data.

Results 23,837 colonoscopies were performed on 18,489 individual adults during the study period.

544 procedures had to be excluded as they lacked an NHS number and couldn’t be histology matched. 23,293 procedures remained.

50.4% of the procedures were performed on females. The median age was 64. Across all the procedures, 25.46% were reported as entirely normal by the endoscopist. 3.04% of procedures contained a histologically confirmed cancer.

Age

We found that the chances of obtaining a normal examination declined from ~49%±5% to 20%±2% in those ≥61 years.

In patients aged ≤43 OR of a normal exam = 3.29. For those aged ≥61, (OR = 0.32 for a normal exam). Note, all OR’s in this study had p ≤ 0.0001 significance.

Sex

Examinations performed on females were more likely to be reported as normal compared to men (OR = 1.73). For women ≤ 43, OR for normality = 3.88.

Priority

Routine priority was strongly associated with normal colonoscopy, (OR = 1.99). Routine procedures on females ≤ 43 were very likely to be normal (OR = 4.90). These patients were very unlikely to have cancer (OR = 0.093).

Indications

Abdominal pain, anaemia (iron deficient) and bowel habit changes (of all types) and family history of colonic cancer were all found to be associated with ≥40% rate of normal examinations, (OR = 3.57).

The highest incidence of normal examinations was found amongst women ≤ 43 undergoing routine colonoscopy for abdominal pain (OR = 7.85), followed by bowel habit changes (OR = 6.49), and anaemia (OR = 5.91).

Conversely, the highest rates of pathology were found in men ≥ 61 undergoing bowel cancer screening, (OR for pathology = 4.98; OR for malignancy = 2).

Conclusions

We have developed a method for performing mass data analysis to identify trends in endoscopy data.

Our data can help improve future utilisation of other colonic investigational modalities like colon capsule for low risk individuals. This can release colonoscopy capacity for the patients most at need.
Results A total of 553 patients (64.2% male, mean age 72±1, 50.4% gastric) were diagnosed with OG cancer. Forty (7.2%, mean age 74±2, 55% male, 55% gastric) patients had 47 non-diagnostic procedures up to three years prior to diagnosis. Mean time from index to diagnostic OGD was 486±55 days. In 42.5% OGD was performed within one year of diagnosis. There was no difference in the age, gender and rates of sedation (25 vs 28.5%) between patients at index and diagnostic procedures. At index OGD the sedation rates were higher (44.7 vs 26.3% p=0.049) than at diagnostic OGD but there was a greater number of procedural points on the list (7.9 vs 9.3 p=0.007). Control patients (n=38, mean age 72±2 p=0.64 compared to POUGIC patients) with FL had OGD done a median of 33 days (~357 to 728 days) from the index OGD. No suitable controls were identified in 2 patients. There was no difference in the sedation rates (25.0 vs 26.3% p=0.89) but there was a trend towards a higher number of procedural points (9.3 vs 8.7 p=0.057) between the index OGD for POUGIC patients and their controls.

Conclusions The local POUGIC rate is 7.2%. No differences in sedation rate between index, diagnostic or control procedures with representative FL suggest use of sedation may not help detection of early neoplastic lesions. However, endoscopy lists with OGDs which miss OG cancer seem to have a heavier burden than ones that diagnosed cancer and other FL suggesting that reduced list intensity may reduce the likelihood of missed pathology.

Abstracts

PTH-061 MISSED OESOPHAGOGASTRIC CANCER CORRELATES WITH HIGHER LIST INTENSITY BUT NOT RATES OF SEDATION

David FW Tia*, Andrew Hopper, Mark McAllindon. Sheffield Teaching Hospitals NHS Trust, Sheffield, UK

Introduction Oesophagogastric (OG) cancers diagnosed within three years of an unremarkable oesophagogastroduodenoscopy (OGD) can be considered a failure to earlier diagnose the OG cancer, or post-OGD upper GI cancer (POUGIC). Retrospective studies suggest that they comprise up to 11% of OG cancer diagnosis [Menon, Endosc Int Open 2014] and auditing rates of POUGIC is a recent quality standard for endoscopy units [Beg, Gut 2017]. We examined whether patient sedation or procedural burden affects the rate of POUGIC.

Methods Cases of OG cancer diagnosed at OGD between Jan 2013 and Dec 2016 at Sheffield Teaching Hospitals were identified from our upper GI cancer database. OGD performed up to three years prior to diagnostic OGD were reviewed to identify cases of POUGIC. Rates of sedation and number of procedural points (one for OGD; two for colonoscopy; plus one for therapeutics) on lists were compared in three groups: a) the index procedures, b) the diagnostic procedures and c) age, sex and endoscopist matched patient control procedures in which focal (mucosal or vascular) lesions (FL) were identified. FL were approximated in size and location (oesophageal or gastric) as a surrogate for an early neoplastic lesion.

Conclusions Visualisation at OGD is variable, with excellent antral but comparatively poorer proximal gastric and incisura views. OGD is the cause of significant distress to patients, rather than discomfort or pain, although duodenal examination may be painful in some. There was little correlation of quality of views with sedation, tolerance or duration of examination.

PTH-062 CLINIC BASED OUTPATIENT TRANSNASAL ENDOSCOPY:IMPLEMENTATION AND EVALUATION OF AN INNOVATIVE ENDOSCOPY SERVICE

1Nilanjana Tewari, 1Addhio Parra-Blanco, 2Samarad Sami, 3Siv Budiad, 4Rina Lewis, 1James Catton, 1Krish Ranganath. 1Nottingham University Hospitals NHS Trust, Nottingham, UK; 2Nottingham Digestive Diseases BRIU, Nottingham, UK

Introduction There is increasing evidence that Transnasal endoscopy (TNE), performed with an ultrathin HD scope, is well tolerated with minimal cardiorespiratory stress and better patient experience than standard endoscopy. We report preliminary results from a new outpatient TNE service developed in a university teaching hospital which is a tertiary referral centre for gastroenterology and upper gastrointestinal surgery.

Methods After local governance approvals, TNE was introduced and performed by 5 experienced endoscopists. All procedures were performed in an outpatient clinic adjacent to the endoscopy recovery area over a 6 month period. Patients were assessed as suitable for TNE based on local guidelines and if agreeable, underwent TNE using Pentax EPK-i7000 HD video endoscopy processor and EG16-K10 Transnasal endoscope (outer diameter 5.4 mm, 2.0 mm instrument channel) under topical anaesthetic plus anti-inflammatory applied to nostril. An antifoam/mucolytic drink was given 15 min prior to procedure. If the nose could not be intubated, the patient was offered the procedure using the narrow endoscope trans-orally. Preliminary data was collected in a pilot study in which patients were asked to complete a visual analogue score (VAS) and