MEDLINE, EMBASE, Cochrane Library, Scopus, CINAHL, HTA and DARE, 3 websites and 7 trial registers were searched from 2008 to 2021. Study inclusion criteria were: malignant biliary obstruction; intervention as endoscopic RFA, either to fit a stent (primary RFA) or to clear a blocked stent (secondary RFA); primary outcomes were survival, quality of life or procedure-related adverse events. Risk of bias was assessed using the RoB 2.0 and ROBINS-I tools. Primary analysis was meta-analysis of the hazard ratio of mortality.

**Results** 68 studies (1742 patients) were identified but only 2 randomised trials, 1 retrospective case control study and 3 retrospective cohort studies reported a hazard ratio of death for primary RFA compared to stent-only control. The pooled hazard ratio of mortality for primary RFA compared to stent-only was 0.34 (95% confidence interval (CI) 0.21 to 0.55). There was moderate heterogeneity (I² = 53%) however the studies were consistently in favour of primary RFA. There was insufficient evidence available to analyse effectiveness in secondary RFA. No evidence about the impact on quality of life was found. There was no evidence of increased risk of cholangitis (risk ratio 1.15, 95% CI 0.63 to 2.12) or pancreatitis (risk ratio 1.34, 95% CI 0.55 to 3.25), but there was an increase in cholecystitis (risk ratio 11.47, 95% CI 2.28 to 57.66). Inconsistencies in standard reporting and study design were noted e.g. adverse outcomes and lack of standardised comparator groups. RFA was estimated to cost £2,659 and produced 0.18 QALYs more than no RFA on average. With an ICER of £14,392/QALY, RFA was likely to be cost-effective at a threshold of £20,000/QALY. The source of the vast majority of decision uncertainty lay in the effect of RFA on stent patency.

**Conclusions** Primary RFA is associated with increased survival and appears cost-effective. The evidence for the impact of secondary RFA on survival and of quality of life is limited. There was no increase in the risk of post-ERCP cholangitis or pancreatitis but increased risk of cholecystitis. High quality RCTs to investigate primary and secondary RFA are needed with accurate documentation of quality of life, adverse event rates and survival.

**PTU-37 TO SCOPE OR NOT TO SCOPE: OUTCOMES OF ENDOSCOPY SURVEILLANCE IN OLDER ADULTS**

**Introduction** Updated guidance from the British Society of Gastroenterology (BSG) no longer recommends endoscopic surveillance after colorectal cancer resection or polypectomy in patients over 75 years. We aimed to evaluate the outcomes of surveillance in older adults in our local population, which is considered one of the most elderly in the country.

**Methods** A retrospective analysis of patient records was conducted for patients over 70 years, who had undergone colorectal cancer surgery with curative intent, between 2014 and 2016 at our district general hospital. We identified patients that had surveillance and those that did not. In the surveillance group, endoscopic findings were noted, including the presence of high-risk findings according to the BSG criteria, as well as complications following endoscopy. Parameters of interest for both groups were age, sex, ASA grade, Charlson comorbidity index (CCI), original tumour site, resection margin, TNM stage, CEA level, whether the patient received neo-adjuvant or adjuvant therapy, overall survival and cause of death. Statistical analysis was performed using SPSS v27.

**Results** 207 patients were included in the study. 199 patients had major resection and 8 had endoscopic mucosal excision for their primary cancer. Median age was 77 years. Further demographics are shown in table 1. 108 patients had at least one surveillance endoscopy, of which 41 (38%) identified polyps, including 11 (10%) with high risk findings. No major complications were reported. Overall survival was greater in the surveillance group at 38 months, compared to 21.5 months in the non-surveillance group (p<0.001). Mortality due to colorectal cancer was lower in the surveillance group (8 patients vs 29 patients) including mortality due to local recurrence (1 patient vs 7 patients). Parameters that were significantly lower in the surveillance group were age, ASA grade, CCI, M stage and CEA. There was no significant difference in sex, tumour site, resection margin, T stage, N stage and
whether the patient received neoadjuvant or adjuvant therapy between the two groups.

Conclusions Patients in our local population are known to have far greater life expectancy and associated quality of life compared to the rest of the country. Older patients selected for surveillance have certain favourable prognostic factors and better survival. The detection of significant pathology in older adults considered fit for endoscopy supports ongoing surveillance in this group and should be considered on an individual basis for the older population in our area.

PTU-38 MISS:ED UPPER GASTROINTESTINAL CANCERS: PREDISPOSING FACTORS IN A DISTRICT GENERAL HOSPITAL POPULATION OVER 7 YEARS

Craig Jordan Tilley*, Arash Vaziri, Anna Cavazza, Roderick Ravindradja, Evangelos Chalatsis, Julie Deacon, James Evans, Danielle Morris. East And North Hertfordshire NHS Trust, Hertford, UK

Introduction Missed upper gastrointestinal (GI) cancers are associated with poorer survival outcomes. Missed cancer is defined as having had a negative upper GI endoscopy within three years of confirmatory diagnosis. The aims of this study are to quantify cases of missed upper GI cancer at endoscopy from a district general hospital and identify potential predisposing factors to improve future outcomes.

Methods In this project, retrospective patient records were obtained from MDT meetings run between 2019 and 2020. For data comparison, similar records from previous cohorts were reviewed. The endoscopy records of these patients were extracted from the CIPTS endoscopy recording system and analysed to see if any patient had an endoscopy within the three years prior to diagnosis of their upper GI cancer. Previous endoscopies were scrutinised for the following factors: indication, visible abnormality, biopsy, endoscopist grade, sedation, presentation type, histology and follow up.

Results Of the 280 patients in total, 20 (7.1%) had a negative endoscopy in three years prior to diagnosis. Subgroup analysis of 2019-20 patients showed identified 78 cases of upper GI cancer. We identified five formal cases of missed upper GI cancer in this subgroup. In the 2019-20 cohort the average age in the missed cancer group and non-missed cancer group were 83.8 and 73.2 years, respectively. Factors identified in missed cancer groups from earlier cohorts included emergency bleeding, visible abnormality, not biopsied, administrative delay in rescope and lack of recognition of pathology.

Conclusions The incidence of missed upper GI cancer diagnosis within this centre is similar to that of recent studies from other centres. Our study has highlighted that advanced age, accurate recognition and biopsy, and timely re-biopsy may be factors influencing missed upper GI cancers. This evidence has highlighted the importance of endoscopy training in the recognition and biopsy of pre neoplastic lesions. Furthermore, we intend to analyse data for the year 2020-21 to monitor the impact of COVID-19 on missed upper GI cancer diagnosis.

PTU-39 OUTCOMES OF URGENT ENDOSCOPY DELAYS DURING UK-WIDE LOCKDOWN AT A TEACHING HOSPITAL

Andrew Baxter, Andrew Baxter*, Stephen Hearing. Royal Derby Hospital, Derby, UK

Introduction The COVID-19 pandemic had far reaching consequences for patients beyond those who suffered with the disease. The British Society of Gastroenterology (BSG) advised cessation of all non-emergency endoscopy on 25/03/2020 [1]. A 2 month delay in diagnostics was modelled to result in between 6.4-12.5% reduction in 10 year survival depending on age and gastrointestinal cancer site [2]. Real world endoscopy data suggests that 37.1%, 52.3% and 72% of oesophageal, gastric and colorectal cancers, respectively, were not diagnosed in comparison to historical data [3]. However, the true data is currently unknown as patients may have received diagnosis through alternative means such as imaging studies. As we come out of restrictive measures, we will need to answer what happened to these patients, whose diagnoses may have been delayed.

All endoscopy referrals in our centre were vetted by senior clinicians and were streamlined into pathways such as telephone clinics, referral for imaging or deferred until endoscopy services resumed. This abstract analyses the consequences of the emergency measures taken and the impact on our patient cohort.

Methods Patients on either an upper GI or Colorectal two week wait pathway (2WW), were identified prospectively throughout the period of emergency throughout 26/3-4/5/2020.