for each individual. Based on the SOC, participants were categorised into different groups, consisting of pre-contemplation, contemplation, preparation, action, relapse, and maintenance. Adjusted odds ratios (AORs) and 95% confidence intervals (CIs) were evaluated using binary logistic regression analyses.

Results Participants at the pre-contemplation stage were more likely to be older (AOR=1.07; 95% CI=1.04–1.11), of female gender (AOR=1.54; 95% CI=1.15–2.07), and have lower income (AOR=0.68; 95% CI=0.48–0.98) compared with those at contemplation, preparation or action stages. Relapse screeners were more likely to be older (AOR=1.08; 95% CI=1.03–1.13), at lower education level (AOR=0.54; 95% CI=0.35–0.82), and smokers (AOR=1.92; 95% CI=1.09–3.38) compared with maintenance screeners. The association was not found to be associated with marital status, occupation and self-perceived health status.

Conclusions The goal for promoting health programs is to facilitate forward movement from the pre-contemplation stage to contemplation, preparation, action and finally maintenance. This is one of the very few studies investigated factors associated with readiness to CRC screening by using the SOC. Our findings provide a foundation for developing interventions to improve long-term participation of CRC screening.

IDDF2019-ABS-0255

ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY WITH BALLOON-ASSISTED ENTEROSCOPY IN PATIENTS WITH ROUX-EN-Y ANASTOMOSIS AND WHIPPLE OPERATION

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10.1136/gutjnl-2019-IDDFabstracts.213

Background In patients with Roux-en-Y anastomosis (including hepaticojejunostomy and Roux-en-Y gastric bypass) and Whipple operation, endoscopic retrograde cholangiopancreatography (ERCP) can be challenging. We retrospectively analysed our experience with ERCP using balloon-assisted enteroscopy (BAE) (BAE-ERCP) in patients with Roux-en-Y anastomosis and Whipple operation.

Methods ERCP was performed in 15 patients (4 pancreaticoduodenectomy and 10 cholangiojejunostomy and 1 subtotal gastrectomy with Roux-en-Y reconstruction; age ranging from 4 to 63 years) with balloon-assisted enteroscopy. Double- and single-balloon enteroscopy was applied in 5 and 10 patients, respectively.

Results Bile duct cannulation was successful in 13 of 15 cases (86.7%), including simple stenosis of the anastomotic stoma (n=2), intrahepatic bile duct stones (n=10), and pancreatic cancer (n=1). Cannulation failed because the guide-wire could not pass through the anastomotic stenosis in one patient and because the endoscope could not enter the acute angle of the anastomosis of the afferent limb in the other patient. Adverse events included jaundice (n=1) and perforation (n=1), which were successfully treated by conservative therapy.

Conclusions ERCP with balloon-assisted enteroscopy in patients with Roux-en-Y anastomosis and Whipple operation is safe and useful but has unique complications. The success rate is lower than that of conventional ERCP.

IDDF2019-ABS-0256

ASSESSMENT OF UPPER GASTROINTESTINAL SYMPTOMS IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE

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10.1136/gutjnl-2019-IDDFabstracts.214

Background We assessed the prevalence of upper GI symptoms in patients with IBD and examined the association between upper GI symptoms and disease manifestations, treatment, sleep problems, and fatigue.

Methods We investigated the upper GI symptoms using the frequency scale for symptoms of gastrointestinal reflux disease (FSSG) questionnaire comprising seven questions regarding reflux symptoms (RS) and five questions regarding acid-related dyspepsia (ARD). IBD outpatients completed questionnaires at their regular follow-up visit in our hospital. We also asked patients about sleep problems and fatigue with a questionnaire. We abstracted patients' data from medical records including age, sex, body mass index (BMI), smoking history, types of IBD, duration of IBD, surgical history, and medications.

Results Total 150 patients (83 male and 67 female), 105 Ulcerative Colitis (UC) and 45 Crohn's disease (CD) patients were included in the analysis. The mean age was 43.7±16.0 years, mean BMI was 21.8±3.1, and disease duration was 9.0 years. 30 patients (20.0%) had a surgical history. Medications being used were 5-ASA in 136 (90.7%), corticosteroid in 26 (17.3%), immunomodulator in 54 (36.0%), and biologics in 54 (36.0%) patients. 62.2% of CD patients and 46.7% of UC patients reported upper GI symptoms. Female sex was associated with "heartburn after meals" (OR 3.09 (95% CI 1.11–8.64), p=0.046). FSSG scores, RS scores and ARD scores were higher in CD patients than in UC patients (p=0.01, p=0.03, and p=0.01, respectively). In particular, "unusual sensation in your throat" (OR 5.23 (95% CI 1.25–21.95), p=0.02) and "burp a lot" (OR 2.71 (95% CI 1.18–6.24), p=0.02) were observed more frequently in CD patients. Upper GI symptoms were associated with sleep disturbance (OR 2.44 (95% CI 1.12–5.34), p=0.025), and fatigue (OR 3.20 (95% CI 1.63–6.30), p=0.0009).

Conclusions Upper GI symptoms in IBD patients were relatively common and have the potential to influence the sleep quality and feelings of fatigue. CD Patients suffer from upper GI symptoms more frequently compared to UC patients.

IDDF2019-ABS-0261

BENEFICIAL EFFECTS OF CASSIA ANGUSTIFOLIA (SENNA LEAVES) TREATMENT IMPROVES CONSTIPATION, LIVER FUNCTIONS AND DEFENSE OF RED BLOOD CELLS IN TYPE 2 DIABETIC PATIENTS

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10.1136/gutjnl-2019-IDDFabstracts.215

Background Diabetes has been reported with constipation leading to the development of diabetic complications in spite of controlling the blood glucose levels by antidiabetic drugs. Our objective was to investigate the effects of Cassia Angustifolia (Senna leaves) extract on constipation, liver dysfunctions and defense of red blood cells in type 2 diabetic patients.

Methods A total number of 100 subjects were selected with the age ranging from 45 to 60 years. Among them, 50 diagnosed type 2 diabetes individuals were included in Group A and 50 apparently healthy individuals were selected as Group B for comparison.

Cassia Angustifolia (Senna leaves extract) was prepared in hot water and orally administered to type 2 diabetic patients with constipation. This treatment was thrice a week in the 1st month, twice in a week in corresponding 2nd and 3rd months and once in a week from 4th to 6th months. The defensive enzyme, the glutathione peroxidase, sodium dismutase and catalase were measured in the red blood cells along with the levels of reduced glutathione. The liver function test was performed by measuring hepatic enzymes aminotransferases (Aspartate amino transferase (ASAT) activity, alanine amino transferase (ALAT)) and lipid profile levels.

Results The present study showed that higher levels of serum hepatic enzymes in diabetic patients. The diabetic patients were found to be high blood glucose levels and altered lipid profile with vulnerable to skin infection particularly in the pelvic regions, backside, legs, etc. which were reversed to normal after six months of Senna leaves treatments. The neurological disorder like sustaining pain in legs was also recovered with the treatment. The stools quality also changed to normal. The glutathione peroxidase decreased in red blood cells of diabetics by 20–30%, normalized after six months of treatment with Senna leaves extract. The reduced glutathione found to be decreased in diabetics by 15–20%, normalised. There was also normalize enzymes activity of aminotransferases with treatment to diabetic patients.

Conclusions Senna leaves extract treatment to diabetic patients not only normalize the defense of red blood cells but also corrects skin infection, liver disorder, neurological disorder and physiological disorder.

IDDF2019-ABS-0265 EFFECTS OF DRINKING PLENTY OF WATER FOR BOWEL PREPARATION BEFORE COLONOSCOPY

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10.1136/gutjnl-2019-IDDFabstracts.216

Background To investigate the relationship between water quantity and bowel preparation for colonoscopy.

Methods The data of patients undergoing colonoscopy in our hospital between June 1, 2018, and December 31, 2018, were analyzed prospectively. Polyethylene glycol-electrolyte powder and quantity of water were administered in all patients for bowel preparation before colonoscopy. Patients were randomly divided into 3 groups. Group A should drink 3000 ml or more water with the powder, group C should drink no more than 2000 ml, while group B drunk 2000–3000 ml water before colonoscopy. The intestinal cleanliness was evaluated by 3 grades: good (the fluid was transparent and <5% of feces was obscured by intestinal contents), moderate (the fluid was a little opaque or 5% to 10% of feces was obscured by intestinal contents) and poor (the fluid was opaque or >10% of feces was obscured by intestinal contents). The primary measurements included bowel preparation, visualization of intestinal mucosa and patient experience.

Results Bowel preparation with different water quantities was well accepted by subjects and there were no adverse events. The examination takes 10.8 ± 7.6 min (8–20). The cleanliness was evaluated as good in group A, B and C were 112 (88.2%), 107 (79.9%) and 72 (61.0%) subjects respectively. The cleanliness was evaluated as poor in group A, B and C were 2 (1.6%), 10 (7.5%) and 25 (21.2%) subjects respectively. More patients with polyp and other lesions were found in group A than group B and C ($P=0.059$).

Conclusions Drinking plenty of water has a great impact on bowel preparation. The more water, the more clear vision and easier to detect intestinal lesions.

IDDF2019-ABS-0272 CLINICAL PROFILE OF PATIENTS WITH ACUTE MESENTERIC ISCHEMIA IN NORTHERN INDIA

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10.1136/gutjnl-2019-IDDFabstracts.217

Background Acute mesenteric ischemia (AMI) is a medical emergency and constitutes around 0.09–0.2% of all cases of acute abdomen, with 50% in-hospital mortality. According to Western literature, AMI most commonly occurs in the 7th–8th decade, with 50% mortality, and arterial occlusion being the most common cause. The clinical profile of patients of AMI in India may be different from Western patients; however, the data is lacking. We aimed to study the clinical profile of patients of AMI at a tertiary care centre in northern India.

Methods We retrospectively collected data of consecutive patients of AMI admitted our department from March 2014 to Jan 2019. Data regarding epidemiology, clinical presentation, etiology, imaging, treatment and outcome were studied.

Results Our study included 59 patients (74% males, median age 52 years). The most common presentation was pain abdomen in 88%, obstipation 40%, gastrointestinal bleeding 17%, and peritonitis 0.5%. Mesenteric Venous thrombosis was seen in 56%, mesenteric artery thrombosis in 30%, mixed thrombosis in 10% and non-occlusive ischemia in 3%. Most (71%) patients required surgical resection. The overall in-hospital mortality was 34%.

Conclusions Unlike the Western literature, the AMI in North India is most commonly due to venous thrombosis, presenting in the sixth decade, and has a lower mortality rate than West. Large prospective studies will be required to elucidate the cause of these differences from Western data.

IDDF2019-ABS-0274 RARE CASE OF GASTRODUODENAL INTUSSUSCEPTION WITH GASTRIC FUNDATING GROWTH, ASCITES AND BOWEL ISCHAEMIA IN AN ELDERLY FEMALE

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10.1136/gutjnl-2019-IDDFabstracts.218

Background Recently an elderly lady of about 72 years presented to Gastroenterology OPD with pain abdomen,