Conclusions

Symptomatic strictures requiring dilatation occurred in 9% after endotherapy into demanding endoscopy service commitments. BE respond better & multiple treatments are more likely to achieve cure.

Disclosure of Interest None Declared

OC-052 | COMBINED EMR AND RADIO FREQUENCY ABLATION LEADS TO HIGH BARRETT’S ERADICATION RATES FOLLOWING STRUCTURED TRAINING PROGRAMME

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Introduction

EMR and Radio Frequency Ablation (RFA) have recently been combined to treat dysplastic Barrett’s oesophagus (1). These are complex techniques and require a high level of endoscopic skill and published reports show a range of success. The Academic Medical Centre (AMC) in Amsterdam is a high volume tertiary centre for these procedures and has established expertise in providing structured teaching (2). After attending a structured teaching programme at the AMC a service was established at a London teaching hospital to treat patients with dysplastic Barrett’s oesophagus. We wanted to know if high quality results could be reproduced in this setting.

Methods

We retrospectively analysed all cases of dysplastic Barrett’s referred for treatment at our centre since the introduction of RFA (Barryx), following structured training at the AMC. Decision for endoscopic therapy was made at a multidisciplinary meeting involving surgeons, radiologists, oncologists and gastroenterologists. Published protocols for treatment with EMR/RFA were closely followed (1), although argon plasma coagulation was used to remove residual islands less than 5mm in the interests of cost, rather than RFA. All procedures were carried out by one of two senior endoscopists.

Results

Over 30 months 35 patients were referred for endoscopic therapy. Following initial EMR of visible lesions 3were found to have cancer extending beyond the first 1/3 of the sub-mucosa and were offered alternative therapy, 24have finished therapy and 1 is lost to follow up. Mean age was 70 years (53–89) and mean Barrett’s length 5.4cm (<1–10cm). Therapy was applied as follows: 2 patients had only EMR, 4 only RFA, 1 EMR + AFX, 6 EMR + RFA, 5 RFA + AFX, 6 EMR + RFA + AFX. 24/24 have had eradication of high grade dysplasia or intra-mucosal cancer (100%). 21/24 (87.5%) have had complete eradication of Barrett’s by endoscopic and histological criteria. Mean follow up is 9.8 months (1.5–25). There were no perforations. 3 strictures were treated endoscopically.

Conclusion

Following a comprehensive structured teaching programme in the treatment of dysplastic Barrett’s with combined RFA and EMR, results comparable to published studies are achievable in lower volume centres treating approximately only one new patient per month.

Disclosure of Interest None Declared

OC-053 | CURCUMIN, ANTI-OXIDANT AND PIOGLIITAZONE THERAPY WITH INCLUSION OF VITAMIN E IN NON ALCOHOLIC FATTY LIVER DISEASE-A RANDOMIZED OPEN LABEL PLACEBO CONTROLLED CLINICAL PROSPECTIVE TRIAL (CAPTIVE)

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Introduction

NAFLD is a global clinical challenge which progresses to cirrhosis and liver cancer. Defective transport of free fatty acids and mitochondrial dysfunction lead to explosion of a series of free radicals, apoptosis, up regulated cytokines and fibrogenesis ultimately causing cirrhosis and cancer. Curcumin is a pan-antioxidant with anti-inflammatory, anti-apoptotic, anti-microbial, and anti-fibrogenic properties. This study evaluates the role of curcumin in NAFLD to progression of NASH.

Methods

Eighty patients (n = 80) with mean BMI 29%, NAFLD score 0.66, NASH fibrotic score 0.53, HOMA IR 3.8, ALT 58, LDLc 143, HDLc 29, Triglyceride 186 and Adipokines (leptin, adiponectin, Retinol Binding Proteins) were divided into Group A (n = 20) pioglitazone 15mg, Group B (n = 20) vitamin E, Group C (n = 20) curcumin (all the three above groups received placebo), and Group D (n = 20) vitamin E plus curcumin. Pre and post values (Triglycerides, LDLc, HDLc, ALT, HOMA-IR, TNF-alfa, Leptin, Adiponectin, Retinol Binding Protein, HBA1c, Serum necro-inflammatory NAFLD and NASH fibrotic score) were analysed at 3, 6, and 12 months. Diet and exercise were left unchanged. Daily alcohol content was less than 30 grammes.

Results

Group A Minimal changes on ALT, HBA1c, HOMA, lipids, no changes in TNF-alfa, adipokines, lipid profile and necro-inflammatory score and/or NASH fibrosis score. Group B and Group C had modest changes in ALT, lipid profile, HBA1c and HOMA; while no changes in adipokines, necro-inflammatory score and fibrotic score. Group D had significant changes in all scores particularly the adipokines and small improvements in fibrotic score. All patients tolerated the medications well.

Conclusion

This study postulates the effects of Curcumin plus vitamin E in NASH can prevent NASH with a modest anti-fibrotic effects and necro-inflammatory score; with impressive changes in adipokines levels. Additive effects of Curcumin with vitamin E has significant effects on Serum lipids and insulin sensitivity. Unavailability of Pre and post liver biopsy was the limitation A large control trial needs to validate.

Disclosure of Interest None Declared

OC-054 | HEPATIC EXPRESSRESSION OF CCL25 MEDIATES RECRUITMENT OF PLASMACYTOID DENDRITIC CELLS TO LIMIT LIVER INJURY

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Conclusion

Following a comprehensive structured teaching programme in the treatment of dysplastic Barrett’s with combined RFA and EMR, results comparable to published studies are achievable in lower volume centres treating approximately only one new patient per month.

Disclosure of Interest None Declared

REFERENCES


Liver symposium: impact of clinical research in hepatology
Introduction Primary Sclerosing Cholangitis (PSC) is an incurable chronic immune mediated biliary disease that occurs in individuals with IBD. We have previously reported aberrant expression of the gut chemokine, CCL25 in the human PSC liver and the recruitment of CCR9 expressing gut derived T cells. In order to gain further insights into the consequences of aberrant CCL25 expression in the liver in PSC, we induced CCL25 in the murine liver and assessed biliary inflammation in-vivo.

Methods To clarify the functional role of CCL25 expression in the liver, we generated a murine liver specific knock-in of CCL25 expression and tested the effects on immune mediated cholangitis using the Ova-Bil model of antigen driven biliary injury. Immune cell phenotyping and isolation were performed using flow cytometry. Liver injury was assessed by ALT measurements and histopathology. pDC function was assessed ex-vivo in co-culture with naive transgenic TCR T cells

Results Ova-Bil x CCL25KI mice developed significantly less liver injury than wt Ova-Bil controls. Flow cytometry revealed increased numbers of CCR9+ pDCs in the Ova-Bil x CCL25KI livers. CCR9-/- x Ova-Bil mice developed significantly worse liver injury compared to wt Ova-Bil controls and severely lacked pDCs in the liver. Adoptive transfer of wt pDCs to CCR9-/- x Ova-Bil mice rescued the phenotype and reduced the degree of liver injury comparable to wt Ova-Bil controls. In vitro studies demonstrated the ability of liver-derived pDCs to induce regulatory T cells in a retinoic acid dependent manner as a possible mechanism by which CCR9+ pDCs are able to control liver injury.

Conclusion Aberrant expression of CCL25 in the liver enhances recruitment of CCR9+ pDCs and appears to be an attempt to limit the extent of hepatic inflammation in PSC. Regulatory effects of CCR9+ pDCs appears to be at least in part mediated through the expansion of hepatic regulatory T cells.

Disclosure of Interest None Declared

REFERENCE

Endoscopy symposium: endoscopy in the management of obesity

A NOVEL TECHNIQUE FOR FULL THICKNESS LAPAROSCOPIC EXCISION OF COLONIC LESIONS: AN EXPERIMENTAL PILOT STUDY

Introduction A Brigic, A Southgate, P D Sibbons, C Fraser, S K Clark, R H Kennedy.

Methods Surgery was performed in five 70-kg pigs. A simulated colonic polyp was created by endoscopic injection of Spot® and the clearance margin delineated by circumferential placement of mucosal argon plasma coagulator (APC) marks. Full thickness evisceration of the colonic wall, including the lesion, was achieved by endoscopic placement of prototype BraceBars (BBs). The everted section was excised using a linear laparoscopic stapler placed below the BBs. The first pig was terminated immediately and others were sacrificed 8 days after surgery.

Results The median procedure duration, defined from placement of mucosal APC marks to specimen excision, was 26 min (range 20–31 min). All excised specimens contained three pairs of BBs, included the APC marks and had a median diameter of 5.1 cm (range 4.5–6.3 cm). Postoperative recovery in survival animals was uneventful. Post-mortem evaluation demonstrated well-healed resection sites with no evidence of intra-abdominal infection or inadvertent organ damage. Endoscopic evaluation of anastomoses at post-mortem demonstrated a widely patent lumen without evidence of stenosis at excision sites. Histological examination of the anastomoses showed primary closure by mucosal abutment and regeneration, with repair and restoration of submucosal continuity.

Conclusion This proof-of-concept study has demonstrated the feasibility and safety of a novel full thickness colonic excision technique that is now ready for translation as an alternative to hemi-colectomy. The excision size will accommodate most colonic polyps that currently come to surgery. Accurate placement of endoscopic BBs ensures complete excision, reducing the risk of residual disease and recurrence, while laparoscopic overview avoids collateral damage. The ability to preserve mesenteric vasculature and colonic length is likely to result in less morbidity and mortality, better functional outcomes and the approach should reduce treatment costs.

Disclosure of Interest None Declared

LONG-TERM TRENDS IN COMORBIDITY AND RISK SCORES AND THEIR INFLUENCE ON OUTCOMES OF UPPER GASTROINTESTINAL BLEEDING

Introduction The prevention of upper gastrointestinal bleeding (UGIB) can be facilitated by understanding the changes in environmental and socio-pathological factors; these might not become obvious in short-term studies. We, therefore, aimed to study the changes in comorbidity and risk scores and their influence on the outcomes of UGIB over a 14-year period.

Methods We analysed the clinical characteristics of all patients presenting with UGIB to a single institution, 1996–2010. The Charlson’s comorbidity and the complete Rockall scores were analysed, together with patients’ drug use and 30-day mortality. Trends with time were assessed using logistic regression analysis with year of presentation as a continuous predictor variable. Regression coefficients were expressed as odds ratios (OR), representing the relative change in odds of death or other binary dependent variables over a time interval of one year.

Results A total of 2669 patients were included. The Charlson score increased significantly with time (P = 0.001), the odds of a high (3+) score increasing at a relative rate of 4.4% a year (OR = 1.044, 95% CI 1.022–1.065). No significant trend with time was noted for age (P = 0.09), haemoglobin level (P = 0.47) or Rockall score (P = 0.94). The overall 30-day mortality was 4.9% and this showed no relationship with time (P = 0.28). However, when adjusted for the increasing comorbidity, the odds of death within 30 days decreased significantly at a relative rate of 4.5% per year [OR = 0.953 (0.914–0.997); P = 0.038]. Trends in the prevalence of taking potentially damaging and protective drugs are shown in Table-1, below. The rise in use of aspirin, other anti-thrombotic drugs and SSRIs [with pro-UGIB activity] was paralleled by a rise in the use of PPIs [protective activity] and beta-blockers, ACE inhibitors, and statins [being able to affect mortality.

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OC-054 Hepatic Expression of CCl25 Mediates Recruitment of Plasmacytoid Dendritic Cells to Limit Liver Injury

D Reid, V Lai, C Weston, T Vo, M Peters, D Adams and B Eksteen

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