Introduction Small Bowel Bacterial Overgrowth (SBBO) has recently been proposed to be prevalent in patients with diarrhoea predominant Irritable Bowel Syndrome (IBS-D). However prevalence figures in studies have varied widely dependant on the diagnostic test used, with low prevalence rates of 4% using jejunal aspirate and culture, to between 38–84% using hydrogen breath tests.

This study used the Glucose Hydrogen and Methane Breath Test (GHBT) to determine if there was a relationship between patients with IBS-D symptoms and SBBO. Concurrently any clinical features or baseline laboratory investigations indicative of a high likelihood of SBBO was investigated.

Methods A retrospective analysis of patient hospital records for patients referred to a tertiary GI Physiology Department at Sheffield Teaching Hospitals (STH) between January 1988–2013 for a routine GHBT was conducted. Data was split into two groups. Group 1 included all patients demographics referred for a GHBT (1998–2010) to investigate characteristics predictive of SBBO. Group 2 included patients who fulfilled ROME III criteria for IBS-D who underwent a GHBT (2010–2012). A positive result for SBBO was defined as a rise in hydrogen or methane levels of ≥10 ppm over baseline levels.

Results In group 1 786 patients were identified (276 male, mean age 54). Overall 175/786 (22.3%) tests were positive. Laboratory investigations and patient characteristics predictive of a positive result were low vitamin B_{12} (p < 0.001), low albumin <30g/dL (p < 0.001), concurrent use of a proton pump inhibitor (PPI) (p = 0.002), previous Bilroth II gastroenterostomy (p < 0.001), previous vagotomy (p < 0.001), right hemi-colectomy (p = 0.003), coeliac disease (p < 0.001), and small bowel Crohn's disease (p = 0.04) and age over 65 years (p < 0.001). Symptoms predictive of a positive GHBT included diarrhoea (p = 0.03) and weight loss (p < 0.01).

In group 2 135/834 patients fulfilled ROME III criteria for IBS-D (42 male, mean age 43 years). Overall 26/135 (19.3%) tests were positive. A significant correlation was found between patients with IBS-D symptoms and SBBO (p = 0.01). Characteristics predictive of SBBO in IBS-D patients were previous small bowel surgery (p = 0.04) and blind loop syndrome (p = 0.04). Conclusion This study has further highlighted the proposed relationship of IBS-D symptoms and an increased prevalence of SBBO. In IBS-D patients factors predictive of SBBO were previous small bowel surgery and blind loop syndrome. For the sub-cohort of patients attending for a GHBT factors predictive of SBBO were patient age (\geq 65 years), diarrhoea, weight loss, use of a PPI, previous Bilroth II gastroenterostomy, previous vagotomy, right hemi-colectomy, coeliac disease, small bowel Crohn's disease, low Vitamin B₁₂ and low albumin.

Disclosure of Interest None Declared.

PWE-169 PERCUTANEOUS TIBIAL NERVE STIMULATION HAS SUSTAINED BENEFIT AT 1 YEAR IN PATIENTS WITH FAECAL INCONTINENCE

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Introduction Faecal incontinence affects up to 18% of the adult population¹ with obstetric trauma being the most common risk factor.^{2,3} Multiple techniques are used in its management with neuromodulation becoming increasingly popular. SNS is a safe and effective treatment for FI but has associated morbidity⁴ and

costs.⁵ PTNS is an alternative that evolved from the treatment of urinary incontinence,⁶ involving stimulation of the tibial nerve. We aimed to assess functional outcome in patients treated with PTNS initially, post treatment and in those that have completed follow up at 1 year.

Methods All patients undergoing neuromopdulation with PTNS in our institution were included. Treatment regimens of 30 min PTNS for 12 weeks were undertaken. Patients were assessed with pre, post treatment and in those that qualify at 1 year with validated questionnaires. The questionnaires included the CCFIS and Rockwood FIQOL score. Data was analysed with SPSS using the Wilcoxon signed rank test with significance at p < 0.05.

Results 40 patients underwent PTNS, 36 female with median age 60 years (range 34–85). 30 were successful with a trial of PTNS, 9 failing and one lost to follow up. Of successful patients a further 4 were lost to follow up at a year. CCFIS scores were significantly improved in the post treatment group (n = 38) with z=-3.75, p < 0.05 r=-0.43 and at 1 year (n = 9) z=-0.26, p < 0.05, r =-0.63. Comparison of the individual components of the FIQOL scores demonstrated significant improvement (p < 0.05) in lifestyle, coping, depression and embarrassment scores post treatment and at 1 year all other than lifestyle continued to show significance.

Conclusion PTNS shows significant benefit in CCFIS scores and FIQOL scores post treatment and at 1 year. Whilst patient numbers at 1 year are small this treatment is in its infancy and further long term studies will be needed to confirm benefit over time.

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Disclosure of Interest None Declared.

PWE-170 AN AUDIT OF CLINICAL RESPONSE IN PATIENTS WITH IBS TREATED WITH THE LOW FODMAP DIET AT ST MARY'S HOSPITAL

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Introduction The low FODMAP diet is a diet used in patients with Irritable Bowel Syndrome. The diet is based on evidence that fermentable oligosaccharides, disaccharides, monosaccharides and polyols (FODMAPs) contribute to symptoms many people experience in Irritable Bowel Syndrome (IBS), including: bloating, flatulence and diarrhoea. This may be due to their fermentation by bacteria and osmotic effects on the bowel. The low FODMAP diet aims to reduce these carbohydrates and so reduce symptoms.

Methods The study included all patients treated with the low FODMAP diet at St Marys Hospital between November 2009

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