syndrome (IBS) and associated consumption of healthcare resources in the Scottish National Health Service.

Methods A consultation records database covering 56 general practitioner (GP) practices in Scotland (approximately 255,000 people; 5.8% of the population) was used to identify consultations primarily due to IBS with GP or practice nurses between April 2009 and March 2011 (Read codes: IBS, constipation, diarrhoea). Read codes suggesting other causes of diarrhoea or constipation and patients with inflammatory bowel disease, diverticular disease, coeliac disease or bowel cancer were excluded. A national primary care prescription database was used to identify use of antispasmodics, laxatives or antidiarrhoeals. Referrals to outpatient clinics and acute hospital admissions between January and December 2011 in antispasmodictreated patients were also analysed using national datasets.

Results Based on consultation records, an estimated 341,180 adults (≥18 years) in Scotland suffer from IBS, representing an estimated prevalence of 7.7% (females: 9.8%; males: 5.5%). Patients consulted 1.05 times during 2010/11 for IBS symptoms and consulted more frequently overall than the general population (9.3 vs. 4.7 times per annum).

During 2011, 142,738 adults received ≥1 prescription for antispasmodics, most commonly mebeverine (40.1%), hysocine butylbromide (35.7%) or peppermint (18.0%), giving an estimated prevalence of antispasmodic-treated IBS of 3.4% (females: 4.7%; males: 2.0%). One-third of these patients were also prescribed laxatives (24.5%), the antidiarrhoeal loperamide (6.7%) or both (2.5%). Of the antispasmodic-treated patients, 11,645 (9.0%) visited a gastroenterology outpatient clinic in 2011 (11.7% of all gastroenterology clinic attendances) and 1,869 (1.3%) were acutely admitted to hospital due to IBS or symptoms likely to be associated with IBS, most frequently constipation (80.3%). The average length of hospital stay was 2.1 days (2.4 days for admissions due to constipation). A further 1,141 people with no record of antispasmodic prescriptions were admitted with a primary diagnosis of IBS.

Conclusion Based on consultation records, the estimated prevalence of IBS in Scotland is 7.7%, and 3.4% based on prescription records; these estimates exclude patients who do not consult a GP or who use laxatives alone or over-the-counter medicines. The prevalence estimates and levels of treatment in this study were consistent with other published information, and show that patients with IBS consume significant healthcare resources.

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## PWE-177 A SYSTEMATIC REVIEW OF ANTIDEPRESSANTS IN IRRITABLE BOWEL SYNDROME: A QUALITATIVE ANALYSIS

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Introduction Antidepressants have a mild analgesic effect and are commonly used in the management of irritable bowel syndrome (IBS); however, the quality of the clinical evidence to support the use of tricyclic antidepressants (TCAs) and selective serotonin inhibitors (SSRIs) in IBS is unclear. The aim of this literature review was to systematically identify and analyse published evidence on the efficacy of TCAs and SSRIs for IBS.

Methods A systematic search of the medical literature was conducted using the PubMed, Embase, and Cochrane databases. Search terms included 'irritable bowel syndrome', 'spastic colon', 'irritable colon', 'functional diseases, colon' and a mixture of agent terms – including antidepressants, tricyclic, and SSRIs. Randomised placebo-controlled trials evaluating the efficacy of antidepressants (SSRIs and TCAs) in adult patients with IBS were eligible for inclusion. Exclusion criteria included absence of placebo arm, patients <18 years of age, and dual publication. Only antidepressants available in the UK were included in this analysis.

Results A total of 628 unique titles and abstracts were retrieved; 581 records were excluded upon title or abstract review and 33 upon full-text review. The final review included 14 studies: 7 reporting on TCAs, 6 on SSRIs, and 1 comparing both an SSRI and a TCA vs. placebo. Agents included in the analysis were citalopram, paroxetine, fluoxetine, imipramine, amitriptyline, trimipramine and doxepin. Overall, 797 patients were included in the 14 studies, with 240 receiving a TCA, 171 receiving an SSRI and 386 receiving placebo. Of the nine studies (475 patients) that reported IBS subtype, 50% of patients had diarrhoea-predominant IBS, 32% had constipation-predominant IBS (IBS-C) and 19% had alternating-type IBS. Treatment duration ranged from 4–12 weeks. The most common IBS-related outcome measures were for global symptom relief and improvements in abdominal pain/discomfort. Three studies reported on quality of life, while only limited data were available for treatment satisfaction. Most outcomes did not align well with those now required for FDA and EMA regulatory approval of medicines to treat IBS-C.

Conclusion The evidence base for the use of antidepressants in IBS is of low quality, making estimates of effect very uncertain. Data for the efficacy of antidepressants in IBS subtypes are especially limited. Further studies are required to support the off-label use of antidepressants in IBS.

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PWE-178 IMPACT OF CHRONIC CONSTIPATION ON HEALTHCARE
RESOURCE USE IN THE UK: AN ANALYSIS BASED ON
ELECTRONIC MEDICAL RECORDS

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**Introduction** Chronic constipation is a common condition with a substantial impact on health-related quality of life. The aim of this study was to assess healthcare resource use and prescription laxative costs associated with chronic constipation in the UK, using electronic medical records.

Methods The IMS Disease Analyzer database contains electronic medical records from primary healthcare practices in England and Wales. Patients were identified as having chronic constipation if they had: ≥2 international classification of diseases-revision 10 (ICD-10) codes for constipation within 12 months; or 1 primary constipation diagnosis and ≥2 laxative prescriptions in the 6 months before or 12 months after the constipation

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