

How CCGs can Successfully and Economically Manage Gastro Conditions in the New NHS



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Gastrointestinal symptoms account for 10 per cent of GP consultations, 10 per cent of hospital specialist workload and 14 per cent of the drug budget.¹ Disorders such as irritable bowel syndrome (IBS), gastrointestinal allergy and coeliac disease are among a group of chronic conditions which are not only costly to treat but often result in a 'revolving door' (see **Figure 1**), where ineffective treatment and poor quality of life results in repeated attempts to seek curative therapy over many years. As the financial pressure mounts within the NHS, the new Clinical Commissioning Groups (CCGs) are increasingly looking for innovative ways to treat long-term conditions which will benefit not only the patient but also the NHS budget. This article explores how dietitians with specialist skills in gastroenterology can provide CCGs with innovative practice based solutions to effectively manage a range of gastrointestinal conditions in primary care.

Stats & facts

Irritable bowel syndrome

IBS is a common functional disorder of the gastrointestinal tract. Between 10 to 15 per cent of the UK population suffer with IBS² at a cost of over £45.6 million per annum,³ with 2.34 million people seeking advice from a general practitioner (GP).⁴ One in 12 GP consultations are based around gastrointestinal problems, with 46 per cent of these being diagnosed with IBS and 20 per cent of these patients being referred for costly secondary care investigations and nine per cent undergoing surgical intervention.⁵ A one month audit, in 2011, found that 14.3 per cent of gastroenterology out-patients were unnecessarily referred to secondary care with IBS symptoms. These patients had no red flag symptoms and were simply referred as there were no alternative treatment pathways available. These patients cost the NHS £10,749 in just one month in two local district hospitals. This equates to an annual cost of £129,000 of unnecessary expenditure. Indeed, one can increase this cost considerably when it is considered that 47 per cent of this group had already undergone previous secondary care investigation in the 'revolving door' of diagnosis and ineffective treatment.⁶

Figure 1: The 'Revolving Door'



Coeliac disease

One in 100 people suffer with the life long gastrointestinal condition, coeliac disease.⁷ If left undiagnosed, the condition can result in costly co-morbidities, such as osteoporosis, autoimmune disorders, cancer, infertility and anaemia.⁸ In children it can be a significant cause of faltering growth.⁸ Yet, research has shown that it takes on average 13 years to obtain a diagnosis, with 60 per cent of coeliac patients reporting that they were previously incorrectly diagnosed with IBS.⁹ The charity, Coeliac UK, have stated that around 85 per cent of coeliacs remain undiagnosed, equating to over 500,000 people in the UK, with only 10 to 15 per cent of coeliacs receiving a diagnosis.⁷ Adherence to a life-long gluten-free diet is the only treatment for coeliac disease and adherence to the diet is essential if comorbidities and their associated costs are to be avoided.⁸ However, patient adherence to the gluten-free diet is poor, ranging from 45-87 per cent.⁸ Adherence has been shown to be associated with knowledge and understanding of the condition and, hence, life long diet therapy and annual reviews are essential to the management of this condition.⁹ Advice suggests that if the patient appears well, they should receive annual follow up in primary care with assessment of their compliance, nutritional status, body mass index and an osteoporosis assessment.⁸

Allergy

Allergic diseases are the most common cause of chronic illness in developed countries, with food allergy emerging as a substantial public health concern over the last 10 to 15 years.^{10,11} Food allergy

can cause an array of gastrointestinal conditions – gastroesophageal reflux, eosinophilic disease in the upper and lower GI tract, gut dysmotility, oral allergy syndrome, constipation and IBS-like symptoms.¹² The costs for allergy as a whole are substantial, with 10 per cent of the primary care prescribing budget at £6.8 billion being dedicated to allergy.¹³ It is noted that patients with gastrointestinal allergy are frequently wrongly diagnosed with IBS¹⁴ and in order to save money on unnecessary costly investigations and incorrect treatments, it is important that this type of allergy is considered under the banner of ‘gastroenterology’ as well as the traditional specialty of immunology.

Innovation in treatment

Although individually these disorders have very specific symptoms, in reality IBS, coeliac disease and gastrointestinal allergy often exhibit almost identical symptoms, which can make diagnosis difficult and is likely to be responsible for much of the ineffective treatment. All three may show signs of abdominal pain, bloating, wind, urgent diarrhoea and/or constipation, stomach gurgling, reflux and poor energy levels, and yet at the core of all three conditions is a requirement for a completely different specialist dietary treatment. Dietitians are the only legally recognised qualified health professionals that can assess, diagnose and treat a range of medical conditions with dietary therapy.¹⁵ Skilled dietitians are ideally placed to set up specialist dietetic-led gastroenterology services within primary care which can incorporate treatment for all three conditions within one clinic – see Figure 2.

Innovative service development for IBS

This innovative service model (as shown in Figure 2) is already being used by Somerset Partnership NHS Trust, where there has been the creation of a new role within the NHS, the ‘Specialist Primary Care Gastroenterology Dietitian’, and the creation of a highly successful and award winning community based dietetic-led gastroenterology clinic.¹⁶ The business case behind the creation of this service was a Somerset secondary care audit which showed that, with the use of a specialist dietitian, the local NHS could save over £102,000 per annum by preventing non-red flag IBS referrals into secondary care (see figures below in Table One).¹⁷

At the moment this clinic focuses on IBS and gastrointestinal allergy and shows a 78 per cent success rate, with patient feedback such as: “To think I had all these tubes pushed down me for years and all I needed to do was change my diet.” and “This has changed my life completely. Amazing. When I had diarrhoea before it was like having a disability. Now I don’t feel that way any more.”

The relatively new specialist IBS diet known as the Low FODMAP® diet accounts for 64 per cent of positive outcomes, with the remainder of patients responding to a mixture of different evidence based dietary approaches including specialist allergy and gluten-free diets. See Figure 3.

This clinic is presently preparing a proposal to include coeliac disease within the service and is again hoping to use innovative ideas to improve the care of coeliac patients while minimising NHS costs.

Figure 2: Specialist Dietetic-led Gastroenterology Clinics

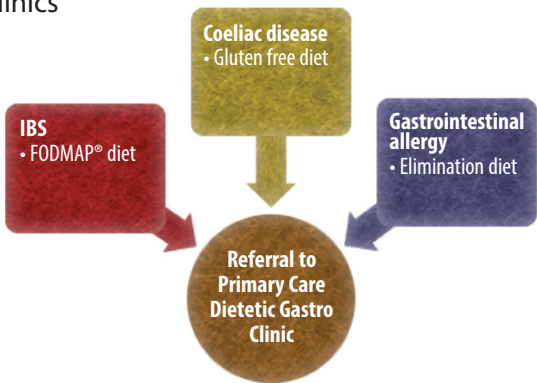


Figure 3: Somerset Dietetic-led Gastroenterology Clinic – July 2010-11th December 2012 audit data

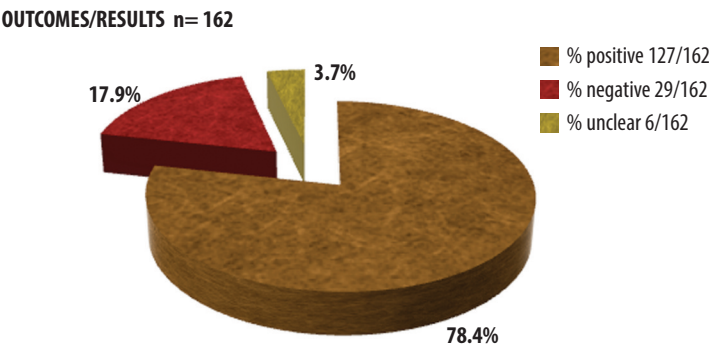


Table One: Figures from Proposal for Clinical Pathway for Management of Irritable Bowel Syndrome at Somerset NHS Trust

Number of First OP attendances where source of referral is GP Referral (based on SUS data 2010/11) for 2 local hospitals	1992
Number of suitable patients based on audit result of 14.3% of First OP attendances	285
Cost of First OP @ £287 for 285 patients	£81,754
Cost of investigations @ £278.75 for 285 patients (based on costs calculated from audit)	£79,404
Total secondary care costs for 285 patients	£161,157
Number of Faecal Calprotectin [®] (FC) tests	350
Cost of FC testing @ £31 per test on a cost per case basis	£10,850
Cost of dietetics service ^{**}	£48,003
Total cost of new pathway	£58,853
Savings comparison	£102,304

* To help to ensure that GPs felt comfortable referring non red flag patients under the age of 45 for dietetic treatment before referring to secondary care, the service proposal allowed GPs access to the biomarker test, Faecal Calprotectin.
** Includes 1 wte Band 6 dietitian; 0.2 wte band 3 administrator plus 15% on costs

