

Coeliac disease in association with inflammatory bowel disease

Sir,

Patients with the combination of coeliac disease (CD) and inflammatory bowel disease are uncommon. Several authors in analysing the prevalence of these two conditions have suggested a more than chance association between them and urged the reporting of patients where both pathologies had been clearly demonstrated.¹⁻³ We describe a further two cases of CD with inflammatory bowel disease, one of whom also had sclerosing cholangitis.

The first case was that of a 16 year old male who presented with a 4-month history of abdominal pain, diarrhoea and a 6.4 kg weight loss. Sigmoidoscopy, barium enema and small bowel follow-through were normal but a small bowel biopsy showed partial villous atrophy. The patient had a good symptomatic and histological response to a gluten-free diet. Three months later blood stained diarrhoea developed. Colonoscopy revealed multiple discrete aphthous ulcers throughout the colon and serial colonic biopsies showed a chronic inflammatory mucosal infiltrate, goblet cell depletion and incipient crypt abscesses. There was a raised immunoglobulin-G level of 55 g/l (normal 7.5-16.5 g/l) and positive smooth-muscle and reticulin antibodies at a titre of >1:160. Ultrasound examination of the upper abdomen revealed moderate dilatation of the common bile duct with extensive portal, peripancreatic, para-aortic and mesenteric lymphadenopathy. Endoscopic retrograde cholangiography showed evidence of sclerosing cholangitis. At laparotomy, moderate hepatosplenomegaly, and extensive intra-abdominal lymphadenopathy were noted. Histologically the lymph nodes showed non-specific reactive hyperplasia and wedge biopsy of the liver showed changes consistent with large or intermediate bile duct obstruction. A diagnosis of Crohn's colitis with associated sclerosing cholangitis and reactive abdominal lymphadenopathy was made. The patient was treated with sulphasalazine in addition to the gluten-free diet and has remained well for a follow-up period of 2 years.

The second case was a 32 year old woman who presented with a 6-month history of diarrhoea, 16 kg weight loss and carpo-pedal spasm. The serum calcium was 1.8 mmol/l (normal 2.2-2.6 mmol/l) with a normal serum phosphate and albumen. A small bowel biopsy revealed subtotal villous atrophy and a gluten-free diet was instituted. The diarrhoea settled and there was a 10 kg weight gain. Repeat small bowel biopsy showed a normal villous architecture which reverted to subtotal villous atrophy with gluten challenge. Thirteen years later the patient complained of passing large volumes of blood and mucus per rectum. Colonoscopy showed oedematous hyperaemic mucosa throughout the colon and multiple colonic biopsies confirmed chronic inflammatory bowel disease. There was a good response to sulphasalazine. Apart from occasional exacerbations of the ulcerative colitis the patient remains well after 7 years of follow-up.

In the three series¹⁻³ where more than one patient with both CD and inflammatory bowel disease have been reported, the authors have reported a 2- to 10-fold

increase in prevalence of patients with both conditions than would be expected by chance. The finding of a significant association between these two conditions would be of importance as their combination in an individual patient could produce a confusing clinical picture. The two cases described above add further evidence to support an association between CD and inflammatory bowel disease.

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References

1. Kitis, G., Holmes, G.K.T., Cooper, B.T., Thompson, H. & Allan, R.N. Association of coeliac disease and inflammatory bowel disease. *Gut* 1980, **21**: 636-641.
2. Gillberg, R., Dotevall, G. & Ahren, C. Chronic inflammatory bowel disease in patients with coeliac disease. *Scand J Gastroenterol* 1982, **17**: 491-496.
3. Breen, E.G., Coghlan, G., Connolly, E.C., Stevens, F.M. & McCarthy, C.F. Increased association of ulcerative colitis and coeliac disease. *Ir J Med Sci* 1987, **156**: 120-121.

Hypomagnesaemia on antibiotic therapy

Sir,

I recently had occasion to review the literature on the association between hypocalcaemia and tetany due to hypomagnesaemia because of prolonged treatment with aminoglycosides.¹ We would like to report a case occurring in a 48 year old man in remission for 4 months with Hodgkin's lymphoma. The patient presented with pyrexia. Physical examination did not disclose any enlarged lymph nodes but abdominal examination revealed hepatomegaly and splenomegaly. No haematological, biochemical or microbiological abnormalities were present in blood. Computed tomography scans revealed enlarged mesenteric lymph nodes. A diagnosis of relapse of his disease was made and he completed a cycle of oral chemotherapy (MOPP)² with pancytopenia after treatment days. He developed clinical septicaemia but cultures of blood, sputum and urine always showed no growth. Amikacin and ceftazidime were given for the first 20 days and piperacillin and metronidazole for the next 25 days.

His chest X-rays showed a mass in the right upper lobe and rifampicin, isoniazid, ethambutol and dibekacin and then streptomycin were also given.

After 20 days he developed tetany with a serum calcium of 1.9 mmol/l (normal 2.1-2.5), serum albumin 32 g/l and potassium 2.8 mmol/l. Despite treatment with calcium gluconate intermittent tetany persisted. Because of low