Routine examination of the terminal ileum during colonoscopy can provide useful information [1], but remains optional depending upon various factors including the discretion of the endoscopist and difficulty with other aspects of examination. We encountered a case where ileoscopy and biopsy resulted in a prompt diagnosis of coeliac disease.

A 57-year-old farmer was referred with a 3-month history of gripping lower abdominal pain associated with alternating loose stools and constipation. There was no weight loss. Clinical examination including rigid sigmoidoscopy showed normal findings except for a reducible left inguinal hernia. He was mildly anaemic with a haemoglobin level of 11.0 g/dl (13–15) with a mean cell volume of 79 fl (76–96).

Colonoscopy showed normal findings, but at ileoscopy adherent white fluid material coating the terminal ileum was observed. Biopsies showed an intra-epithelial lymphocyte infiltrate but normal villous architecture (Figure 1). Antiendomysial antibodies were then checked and these were strongly positive to a titre of 1:300. A diagnosis of coeliac disease was made and his symptoms and anaemia improved in less than 3 months on a gluten-free diet.

Ileal examination during colonoscopy is often easily performed, with a success rate of 70–90% [2], depending on the experience of the colonoscopist, and usually takes 3–4 minutes [3]. To our knowledge this is the first report of identification of coeliac disease at ileal examination during a routine colonoscopy. Ileal examination has been reported as giving useful diagnostic information in up to 18% of the non-HIV-positive patient population presenting with diarrhoea, as opposed to 2.7% in asymptomatic patients [4,5]. We do not consider the endoscopic appearance in our patient to be pathognomonic, but the histological appearance was interpreted as suggestive of coeliac disease. We agree with the recommendation that ileal intubation and biopsy be attempted in all cases of colonoscopy if the patient has diarrhoea.

Acknowledgement

We thank Dr M. Atkinson, consultant pathologist, for histological expertise.

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Figure 1 Terminal ileal biopsy (haematoxylin and eosin; $\times 300$). The villous pattern is normal, but when viewed at high power the intraepithelial lymphocyte:enterocyte ratio is approximately 1:1. The pathological report recommended that coeliac disease should be considered.