Collagenous colitis (CC) is a clinicopathological syndrome of indeterminate etiology, characterised by: (1) chronic watery diarrhoea and crampy abdominal pain and (2) thickened subepithelial collagen table and increased intraepithelial lymphocytes on histology. Gastrointestinal, radiographic, and endoscopic examinations are not diagnostic of CC. Endoscopically, the colorectal mucosa is usually normal, although some non-specific findings such as erythema or oedema have been reported in up to one third of cases.

PATIENTS AND METHODS

The endoscopic reports and medical records of each patient were reviewed, including prior colonoscopic examination reports. Two pathologists (MT, JHY) reviewed the patients' colorectal mucosal biopsies.

RESULTS

Three patients (two females aged 73 and 61 years; one male aged 62 years) were referred for evaluation of watery non-bloody diarrhoea (3–6/day) of 4–6 weeks' duration. All patients had their colonoscopy performed after standard bowel preparation (polyethylene glycol) and sedation (midazolam and meperidine). As the colonoscope was introduced into the bowel by experienced endoscopists (FWJ, FM), mucosal tears with bleeding, ranging from 1–10 mm in width and 5–40 mm in length, were noted following colonic insufflation with air (fig 1). These mucosal tears were found only in the right and transverse colon. The remainder of the colorectal mucosa was macroscopically normal on endoscopy. The histological findings in each case revealed CC with markedly thickened subepithelial collagen tables. All three patients had hypothyroidism; laboratory results were essentially normal, except for a positive antinuclear antibody (1:160) in one patient. Cultures for stool pathogens and Clostridium difficile toxin assay were negative.

Two patients responded to therapy with either tetracycline (250 mg orally three times daily) or oral mesalamine (Asacol 800 mg three times daily) and had no diarrhoea 12–18 months later. However, one patient (61 year old female) continued to have diarrhoea, 2–4 times a day, after treatment with mesalamine, bismuth subsalicylate, ciprofloxacin, metronidazole, prednisone, and octreotide injections.

DISCUSSION

We have presented three patients with CC and endoscopic haemorrhagic lacerations on insufflation. Literature review revealed a case report of a patient with CC who showed multiple small haemorrhagic lacerations in the right colon. However, no case report has described the large longitudinal colonic mucosal lacerations seen in our cases. To our knowledge, similar haemorrhagic lacerations in the colon have not been described in any other gastrointestinal diseases. Gastrointestinal lacerations have been seen in the oesophageal and gastric mucosa only after cardiopulmonary resuscitation. From 1996 to 2000, approximately 100 patients with CC were seen at our institution, and only three cases presented these findings.

A postulated mechanism for the mucosal lacerations in CC might be the rigid character of the collagen containing subepithelium, possibly in combination with endoscopic insufflation, leading to stretching of the mucosa and subsequent tearing. All three patients in our series presented with lacerations on the right colon where collagen deposits have been reported to be thickest.

Although the most common endoscopic finding in CC is normal mucosa, macroscopic lesions on endoscopy may be noted during colonic examination. In particular, the endoscopic finding of haemorrhagic lacerations in the right and transverse colon on insufflation should suggest a diagnosis of CC.

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