A 66-year-old woman presented with nausea, loss of appetite, fever, and abdominal pain. She had livedo reticularis on the anterior surfaces of both legs (Fig. 1). Her medical history included asthma, drug allergy, and sinusitis. Laboratory tests revealed marked eosinophilia (14.8×10^9/L), anemia (hemoglobin 10.9 g/dL), inflammation (C-reactive protein [CRP] 7.4 mg/dL), high levels of rheumatoid factor (3561 IU/mL) and serum IgE (1130 IU/mL), but normal myeloperoxidase (MPO)-antineutrophil cytoplasmic antibody (ANCA) and proteinase 3 (PR3)-ANCA. Examination of the stool did not reveal any parasites.

We performed computed tomography (CT) and esophagogastroduodenoscopy (EGD) to investigate the abdominal pain, but neither test detected any abnormality. Colonoscopy showed multiple discrete ulcers in the terminal ileum (Fig. 2a) and colon (Fig. 2b, c). In addition, electromyography revealed mononeuritis multiplex.

Biopsies were taken from the area of skin showing livedo reticularis. These revealed vasculitis (Fig. 3a), with features including the destruction of an artery, fibrin thrombus formation, and an eosinophilic infiltrate consistent with the diagnosis of Churg–Strauss Syndrome (CSS) [1]. No obvious vasculitis was observed in the biopsy specimen from the colon, but exfoliation of the mucous cell layer was detected, which indicated ischemia caused by the vasculitis (Fig. 3b).

CSS is a rare diffuse vasculitis with a prevalence of 2.4 – 6.8 per 1 million people per year [2]. Involvement of the cardiovascular, central nervous, and renal systems is associated with a poor prognosis. Intestinal perforation is also typically fatal and can be difficult to predict, often occurring after prednisolone therapy has been started. To reduce the risk of intestinal perforation, cyclophosphamide has also been used and has been reported as being effective [3].

In this case the patient was administered prednisolone only, which resulted in a rapid improvement in both her symptoms and laboratory data. A follow-up colonoscopy revealed complete resolution of the ulcers (Fig. 4). This case highlights that it is important to examine the gastrointestinal tract in people with CSS and abdominal pain.

Competing interests: None

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Fig. 3  Histological appearances (right-hand images are higher power views of the marked fields) of the biopsy specimens from: a the area of livedo reticularis showing vasculitis (the bars represent 200 µm in the left-hand image and 50 µm in the right-hand image); b a colonic ulcer showing exfoliation of the mucous cell layer (the bars represent 100 µm in the left-hand image and 50 µm in the right-hand image).

Fig. 4  Endoscopic views after the patient had been treated with prednisolone showing resolution of the ulcers in: a the terminal ileum; b the colon.

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Bibliography
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