A 37-year-old woman presented with intermittent, colicky abdominal pain, vomiting, and abdominal distension since the past 20 days. There was no history of fever, diarrhea, or blood or mucus in the stool. The abdomen was slightly distended but not tender, and bowel sounds were normal. Blood tests revealed eosinophilia (white blood cell [WBC] count $11.6 \times 10^9/L$, eosinophils $3.6 \times 10^9/L$) and serum albumin was $0.4 \text{g}/L$. Stool cultures and a parasitological examination were negative.

No air–fluid levels were seen on abdominal radiography, and an abdominal ultrasound showed a small amount of fluid in the pouch of Douglas. Both upper and lower gastrointestinal endoscopic examinations were normal, and ileal biopsies revealed only occasional eosinophils. An abdominal computed tomography (CT) scan was unremarkable. Ascitic fluid paracentesis yielded clear yellow fluid with no malignant cells, albumin $0.29 \text{g}/L$, WBC count $6.5 \times 10^9/L$, and eosinophils $5.5 \times 10^9/L$.

Capsule endoscopy examination showed dark blue coloration of the deeper layers of the small-bowel wall from the mid-ileum to the ileocaecal valve, with normal villi and no surface erosions (Fig. 1). Repeated colonoscopy showed normal ileal mucosa up to 30 cm beyond the ileocaecal valve. No blue coloration was seen (Fig. 2). Repeated biopsy specimens from the terminal ileum showed only mild/borderline mucosal eosinophil infiltration (10–20/high-power field [HPF] × 40). Serosal eosinophilic enteritis with mucosal sparing was diagnosed, and the patient’s symptoms and blood eosinophilia resolved with an oligoantigenic diet.

Symptoms of eosinophilic enteritis vary, depending on the site and extent of the eosinophil infiltrate. Mucosal eosinophilic enteritis presents with abdominal pain, vomiting, and diarrhea. Infiltration of the muscularis propria leads to obstructive symptoms. Involvement of the serosa presents with ascites [1]. Diagnosis is based on the presence of eosinophilic infiltration in biopsy samples (≥ 20 eosinophils/HPF) [2].

In the present case, capsule endoscopy revealed blue coloration of the deeper layers, without mucosal changes, indicating that the eosinophilic infiltration had spared the mucosa. The latter was confirmed on histological examination, which showed mild/borderline eosinophilic infiltration [2]. Previous capsule endoscopy reports of eosinophilic enteritis have consisted of patchy, erythematous mucosal lesions with centrally flattened villi or erosions with aphthous ulcers [3]. Our new capsule endoscopy finding indicates that blue coloration of the deep layers of the small-bowel wall with preservation of the mucosal morphology suggests a diagnosis of eosinophilic enteritis of the serosal type.

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