A 15-year-old boy attended our outpatient clinic for recurrent lower abdominal pain. He did not have any remarkable medical and family history. The cramping abdominal pain was localized around the right lower quadrant region, and he had no other gastrointestinal symptoms. He often ate raw fish, and sometimes his feces contained noodle-like material. Serum chemistries were all within the normal ranges, and the hematologic examination revealed mild microcytic hypochromic anemia (hemoglobin 12.4 g/dL, hematocrit 36.3%, MCV 77.9 fL, MCH 26.7 pg). No eggs were seen in the stool examination.

Colonoscopy revealed many shallow, oval-shaped aphthoid ulcers with edema, located in the distal ileum up to the proximal ascending colon (Fig. 1). The histologic examination revealed chronic inflammation with superficial ulceration, several inflamed crypts with abscesses, and eosinophilic infiltration (Fig. 2). The microscopic examination of lavage fluids during colonoscopy revealed a large quantity of oval-shaped, operculated eggs (Fig. 3b), and the noodle-like material was identified as proglottides of Diphyllobothrium latum (Fig. 3a). A single dose of praziquantel 600 mg was given for treatment of D. latum infection. A repeat colonoscopy revealed the ulcers had healed, and the patient’s feces were found to be egg-free after 1 month. He also had no more abdominal pain.

Diphyllobothriasis is a disease that occurs worldwide, with a higher prevalence in areas of the northern hemisphere where raw or partially cooked fish is commonly eaten [1,2]. Although there have been several reports of colonoscopic detection of D. latum infection, there have been no reports of cases of D. latum infection with colonic ulcers identified by colonoscopic examination, as in our patient [3,4]. In the absence of discharge of proglottides or eggs in the feces, it may be difficult to differentiate this lesion from chronic inflammatory conditions such as infectious colitis and ulcerative colitis. Keeping in mind the size and shape of the colonic ulcers, it is possible they may be caused by the action of the “sucking grooves” of the intact scolex of the worms.

With the increasing consumption of raw fish around the world, endoscopists should consider parasite infections, including those caused by D. latum, in patients with colonic ulcers and recurrent, nonspecific abdominal pain.

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Fig. 3 Gross and microscopic appearance of Diphyllobothrium latum: a proglottid (length = 20 cm); and b operculated eggs.