The patient was a 32-year-old woman admitted for hematochezia, with a hemoglobin of 67 g/L and fecal occult blood test of 4+. Emergency gastroscopy and colonoscopy were unremarkable. A double balloon enteroscopy revealed a lobulated ileal mass located 70 cm proximal from the ileocecal valve (Video 1). Positron emission tomography/computed tomography (PET/CT) showed that the lesion was located in the pelvic segment of the small intestine, with a standardized uptake value index of 3.6 (Fig. 2). Surgery was recommended owing to the patient’s low hemoglobin levels and risk of recurrent gastrointestinal bleeding. A gross specimen revealed a lobulated, polypoid mass in the ileum, measuring up to 1.5 cm × 0.8 cm (Fig. 3).

A final diagnosis of neuromuscular and vascular hamartoma of the small intestine was made. Postoperative pathology revealed a mixed component of blood vessels, nerve fibers, and smooth muscle consistent with that of a hamartoma (Fig. 4). The haphazard arrangement of the vascular structures and muscular tissues were confirmed by CD31 and desmin staining, respectively. Aberrant nerve bundles and ganglion cells were highlighted by S100 staining (Fig. 5).

Neuromuscular and vascular hamartoma is a rare gastrointestinal lesion first described in 1982 by Fernando and McGovern.
Clinical symptoms can be non-specific and can range from chronic abdominal pain and intermittent intestinal obstruction to gastrointestinal bleeding. This condition can occur as single or multiple strictures or a polypoid mass. It is mainly composed of disorganized fascicles of blood vessels, smooth muscle, and bundles of non-myelinated nerve fibers with scattered abnormal ganglion cells, and occurs focally within a segment of the small intestine [2]. Given that similar histological features seen in cryptogenic multifocal ulcerous stenosing enteritis or diaphragm disease of the small bowel, the hamartomatous nature of neuromuscular and vascular hamartoma has been argued [3]. However, our case demonstrated a rare single, lobulated polypoid lesion of the small intestine with histological features consistent with neuromuscular and vascular hamartoma and cannot be attributed to other reactive diseases.

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Competing interests

The authors declare that they have no conflict of interest.

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Fig. 4 HE staining showed an aberrant arrangement of vascular structures, muscular tissues and nerve bundles.

Fig. 5 Immunohistochemistry confirmed the presence of vascular, muscular and nerve tissues.