Primary gastrointestinal angiosarcoma is an extremely rare disease. We present a unique case in which endoscopic examination of the deep small bowel was necessary to make the diagnosis using spiral enteroscopy.

An 82-year-old man with a history of radiation therapy for prostate cancer was referred for persistent, obscure-overt gastrointestinal bleeding. Recent upper endoscopy with push enteroscopy approximately 20 cm beyond the ligament of Treitz (LOT) was negative. Ileocolonoscopy only revealed blood in the terminal ileum. Computed tomography (CT) angiogram and bleeding scan were negative. The patient received a total of 29 units of packed red blood cells, 10 units of fresh frozen plasma, and 7 units of platelets in the month prior to presentation. On admission to our hospital, his hemoglobin level was 8 g/dL with a normal platelet count and prothrombin time. Anterograde (per os) spiral overtube-assisted enteroscopy was performed. The enteroscope was inserted approximately 230 cm beyond the LOT. Beginning at 40 cm past the LOT, there were innumerable exophytic, polypoid masses that were oozing blood ranging in size from 5 mm to 30 mm (● Fig. 1).

The lesions blanketed the entire jejunum. Multiple biopsies were obtained (● Video 1). Histopathological examination revealed sheets of epithelioid cells with ample eosinophilic cytoplasm containing pleomorphic nuclei (● Fig. 2, 3).

Frequent mitoses and primitive vascular channels were identified. The diagnosis of angiosarcoma was confirmed by special stains for vimentin, CD31/34 and factor VIII-related antigen (● Fig. 4). The patient died 6 weeks later from intractable bleeding and exsanguination.
Angiosarcoma is a rare, highly aggressive vascular neoplasm primarily involving the skin and soft tissues [1]. Infrequently, angiosarcoma may involve the abdominal organs such as the liver, spleen and adrenals. Primary gastrointestinal angiosarcoma, however, is an extremely rare tumor with only 30 cases described in the literature since 1970 [2]. The exact pathogenesis of angiosarcoma remains unclear, but some predisposing factors include previous radiation therapy, exposure to vinyl chloride, Thorotrast or arsenic, and hemosiderosis or chronic lymphedema [3–5]. In most cases of gastrointestinal angiosarcoma, the symptoms are nonspecific and include abdominal pain, weight loss, and anorexia. Overt bleeding with melena or hematochezia is less common, and thus death from gastrointestinal angiosarcoma is often due to exsanguination. Surgical resection offers the best chance for cure if the disease is limited. Currently there are no well-defined chemotherapy regimens for primary gastrointestinal angiosarcoma, as few randomized clinical trials have been performed. Taxol and thalidomide can be considered because of their antangiogenic properties [6]. Ifosfamide, doce-taxel, and recombinant human interleukin-2 have been reported to be successful [7,8].

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