Endoscopic diagnosis and treatment of a giant duodenal lipoma presenting with gastrointestinal bleeding

A 66-year-old man presented with fatigue and acute upper gastrointestinal bleeding (hemoglobin 92 g/L). He had melena but no signs of hematemesis. Upper gastrointestinal endoscopy revealed a 35 × 15-mm large polypoid lesion with multiple ulcerations in the second part of the duodenum (Fig. 1). No biopsy samples were taken due to the risk of bleeding. The diagnosis was unclear and the patient underwent endoscopic ultrasound, which demonstrated a hyperechoic lesion measuring 11 × 19 mm in diameter in the submucosa in the duodenal wall with intact muscularis propria (Fig. 2), suggestive of a lipoma. A subsequent capsule endoscopy excluded distal causes of bleeding in the small intestine. Next, the lesion was removed endoscopically using an endoloop and snare without any complication (Fig. 3). The resected lesion exhibited multiple ulcerated areas (Fig. 4). Histological examination demonstrated a duodenal lipoma with large blood vessels in contact with these ulcerated areas (Fig. 5).

Duodenal lipomas are extremely rare and constitute only one in 600 benign tumors of the gastrointestinal tract [1]. Duodenal lipomas are usually asymptomatic but larger ones can, in rare cases, cause abdominal pain, intestinal obstruction, or hemorrhage [2, 3]. Symptomatic duodenal lipomas should be removed. The current recommendation is endoscopic excision, unless this is technically difficult and warrants surgical excision. Nonetheless, this unusual case with a duodenal lipoma causing upper gastrointestinal bleeding underlines the clinical importance of endoscopic ultrasound in the workup of patients with unclear submucosal lesions in the gastrointestinal tract.
Fig. 5  Histological section from the lesion showing adipose cells compatible with duodenal lipoma and large blood vessels in contact with the ulceration (arrow).

References

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Corresponding author
Henrik Thorlacius
Department of Clinical Sciences, Malmö
Section of Surgery
Skåne University Hospital
Lund University
S-205 02 Malmö
Sweden
Fax: 46-40-336207
henrik.thorlacius@med.lu.se