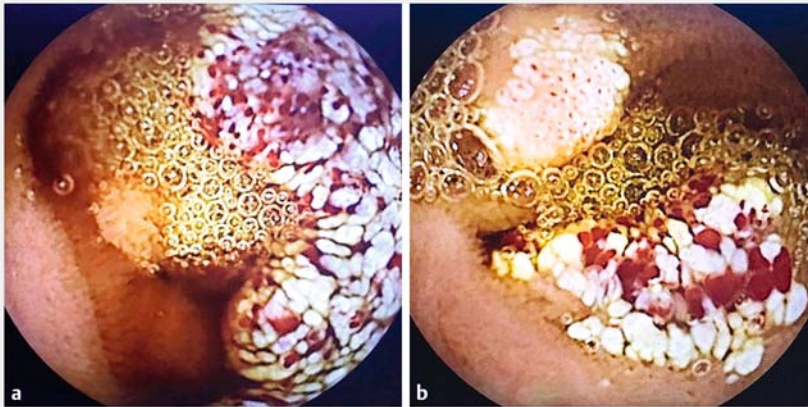# A rare cause of small-bowel bleeding: haemorrhagic small-bowel lymphangioma diagnosed by antegrade double-balloon enteroscopy

▶ **Fig. 1** Small-bowel capsule endoscopy images showing two white-speckled congested lesions, with active oozing.

▶ **Video 1** Small-bowel lymphangioma.

▶ **Fig. 2** Image taken at double-balloon enteroscopy showing a white-yellow appearance of congested villi involved in the lesion.

Small-bowel lymphangiomata (SBLs) are benign and relatively uncommon tumors of the lymphatic system [1]. Although SBLs are usually clinically silent, they may rarely present with significant small-bowel bleeding, protein-losing enteropathy, and intussusception [2, 3].

A 54-year-old-man with a past medical history of stable chronic lymphocytic leukemia presented with transfusion-dependent obscure-overt gastrointestinal (GI) bleeding. Upper and lower GI endoscopies and small-bowel cross-sectional imagining were unremarkable. A small-bowel video capsule endoscopy (VCE) showed a white-speckled congested lesion, with active oozing (▶ **Fig. 1**). The lesion was estimated to be about 2 cm in diameter and was deemed to be located within the jejunum.

Antegrade double-balloon enteroscopy (DBE) was subsequently performed. The enteroscope was advanced to an estimated insertion depth of 240 cm post-pylorus, where the lesion seen at VCE was identified (▶ **Fig. 2**, ▶ **Video 1**). This had a white-yellow appearance with overlying severely congested villi giving a "strawberry-like" mucosal pattern. The lesion was not deemed to be endoscopically resectable; multiple biopsies were taken and a reference tattoo was placed proximal to it.
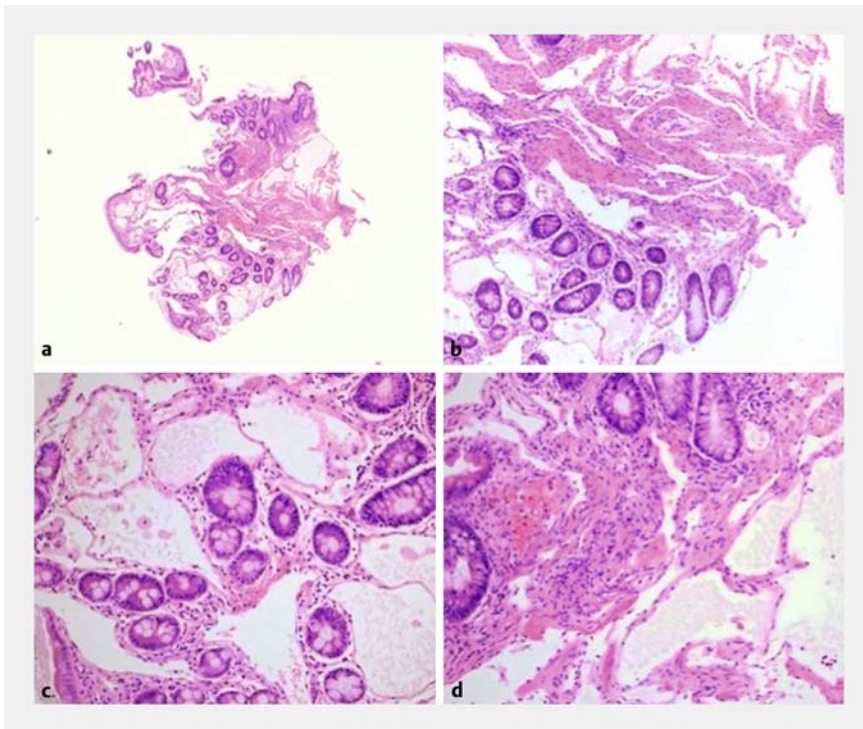
Histopathological exam confirmed a lymphangiomatous etiology without any evidence of dysplasia or malignancy (▶ **Fig. 3**). Minimally invasive tattoo-guided laparoscopic resection has been planned.

This case highlights the key, complementary role of small-bowel VCE and DBE for the diagnosis and minimally invasive management of clinically significant SBLs.

Endoscopy_UCTN_Code_CCL_1AC_2AB

Competing interests

E86

Gaeta Laura et al. Haemorrhagic small-bowel lymphangioma … Endoscopy 2018; 50: E86–E87

▶ **Fig. 3** Small-bowel mucosal biopsy with hematoxylin and eosin staining captured at low magnification, showing superficial ectatic lymphatic vessel within normal villi and deeper ectatic lymphatic vessels in the submucosa. **a** ×4; **b** ×10. **c, d** Same biopsy captured at higher magnification (×20), showing superficial lymphoectasia (monolayer endothelial with no red blood cells) (**c**) and deeper ectatic lymphatic vessels beyond the muscularis mucosae (**d**).

References

[1] Akihiko K, Koichiro M, Satoshi H et al. A pedunculated polyp-shaped small-bowel lymphangioma causing gastrointestinal bleeding and treated by double-balloon enteroscopy. World J Gastroenterol 2012; 18: 4798–4800

[2] Hsu SJ, Chang YT, Chang MC et al. Bleeding jejunal lymphangioma diagnosed by double-balloon enteroscopy. Endoscopy 2007; 39: E5–E6

[3] Mehmedovic Z, Mehmedovic M, Custovic MK et al. A rare case of giant mesenteric cystic lymphangioma of the small bowel in an adult: a case presentation and literature review. Acta Gastroenterol Belg 2016; 79: 491–493

The authors

Laura Gaeta[1], Alberto Murino[1], Nikolaos Koukias[1], Bu'Hussein Hayee[2], Amyn Haji[2], Andrea Telese[1], Edward J. Despott[1]

1 Royal Free Unit for Endoscopy, The Royal Free Hospital and University College London (UCL) Institute for Liver and Digestive Health, London, United Kingdom

2 King's Institute of Therapeutic Endoscopy, King's College Hospital, London, United Kingdom

Corresponding author

Edward J. Despott, MD, FRCP, FASGE
Royal Free Unit for Endoscopy, The Royal Free Hospital and University College London (UCL) Institute for Liver and Digestive Health, Pond Street, Hampstead, London NW3 2QG, United Kingdom
Fax: +44-20-74315261
edespott@doctors.org.uk

ENDOSCOPY E-VIDEOS
https://eref.thieme.de/e-videos

Endoscopy E-Videos is a free access online section, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at https://mc.manuscriptcentral.com/e-videos

Gaeta Laura et al. Haemorrhagic small-bowel lymphangioma … Endoscopy 2018; 50: E86–E87

E87