Removing lumen-apposing metal stent stopped bleeding from splenic artery pseudoaneurysm during transmural drainage of walled-off pancreatic necrosis

A 45-year-old man with a walled-off pancreatic necrosis underwent endoscopic ultrasound (EUS)-guided transmural drainage using a lumen-apposing metal stent (LAMS) owing to infection and gastric outlet obstruction [1]. His clinical history included previous necrotizing pancreatitis with a splenic vein thrombosis and a laparoscopic cholecystectomy. Chronic medication included proton pump inhibitors.

Both the initial computed tomography (CT) scan (▶ Fig. 1) and the EUS (▶ Fig. 2) showed a collection with a liquid component and some necrotic areas inside (about 30%), near the body/tail of the pancreas and in close contact with the splenic artery. A double pigtail stent was also initially placed to avoid the collapse of the cavity and contact with the internal flange of the LAMS [2]. He was admitted again 1 month later with melena, anemia, and a drop in hemoglobin levels from 13.6 to 7.2 g/dl. Esophagogastroduodenoscopy (EGD) showed migration of the double pigtail stent. Fluoroscopy showed a collection size reduction of 2 to 3 cm. During the EGD, arterial bleeding started from the wall below the internal flange of the LAMS, probably coming from the splenic artery (▶ Video 1). We therefore decided to remove the LAMS.

Computed tomography angiography was then performed, showing irregularities along the profile of the splenic artery, as from small pseudoaneurysm and without spills as in active bleeding (▶ Fig. 3a). The subsequent selective arteriography of the celiac tripod (▶ Fig. 3b) did not confirm these irregularities. Hence, it

▶ Fig. 1 Computed tomography scan showed a collection of about 8.6×6 cm with a liquid component of 4 to 6 cm and some necrotic areas inside, near the body/tail of the pancreas.

▶ Video 1 Bleeding from a splenic artery pseudoaneurysm was stopped by removing the lumen-apposing metal stent.

▶ Fig. 2 Endoscopic ultrasound showed the collection was in close contact with the splenic artery.

▶ Fig. 3a Computed tomography angiography showed irregularities along the profile of the splenic artery but no pseudoaneurysm or active bleeding.

▶ Fig. 3b Selective arteriography of the celiac tripod did not confirm the irregularities seen on CT angiography.
was collectively decided to perform only the diagnostic study and to pursue close clinical and laboratory follow-up. No further signs of gastrointestinal bleeding were observed, and hemoglobin levels were stable.

A new CT angiography 2 weeks later confirmed the presence of the known pseudoaneurysm of the splenic artery in the mid-distal area. The splenic artery embolization was therefore carried out (▶Fig. 4).

Endoscopy_UCTN_Code_CPL_1AL_2AD

Competing interests

The authors declare that they have no conflict of interest.

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Endoscopy
DOIs: 10.1055/a-1270-6736
ISSN: 0013-726X
published online: 2020
© 2020. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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