Aseptic abscesses are rare, culture-negative abscesses associated with inflammatory bowel disease which arise most commonly in solid abdominal organs including the spleen, liver, and lymph nodes [1, 2]. Bacterial and aseptic splenic abscesses may not be treatable with antibiotics and corticosteroids alone and require drainage or splenectomy. We report successful endoscopic ultrasound-guided transmural drainage (EUS-TD) of an aseptic splenic abscess.

Our colleagues reported the case of a 41-year-old woman with ulcerative colitis complicated by pyoderma gangrenosum, multiple renal abscesses treated by percutaneous drainage, and a splenic abscess [3]. The splenic abscess measured 4×4×4 cm on imaging studies (Fig. 1). Because the splenic abscess was refractory to medications and could not be approached percutaneously, EUS-TD was performed (Video 1).

A forward-viewing endosonoscope (TGF-UC260J, Olympus Corp., Tokyo, Japan) was used to puncture the gastric fundus with a 19-gauge needle (EZ Shot 3 Plus, Olympus) under endosonographic and fluoroscopic guidance (Fig. 2a–d). A guidewire was advanced into the abscess and the puncture site was dilated with a biliary balloon dilator. An Uneven Double Lumen Cannula (Piolax Medical Devices, Kanagawa, Japan) was used to introduce a second guidewire. A 4-cm, 7 Fr pigtail stent was placed over the first guidewire, while a naso-abscess drainage tube was inserted over the second guidewire (Fig. 2e, f). Follow-up abdominal ultrasound showed a shrunken abscess (Fig. 3). The naso-abscess tube was removed after cultures of the aspirate were
confirmed to be negative. No recurrence was observed during 12 months of follow-up.

There have recently been several reports of successful EUS-TD for subphrenic abscesses, including one report of EUS-TD for a splenic abscess that arose as a complication of acute pancreatitis [4,5]. EUS-TD may be an attractive option for splenic abscesses because they are often difficult to access percutaneously and are frequently refractory to medical treatment alone.

Competing interests

The authors declare that they have no conflict of interest.

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Fig. 3 Follow-up abdominal ultrasound confirmed that the plastic stent was inside the splenic abscess with no fluid components remaining.

Video 1 Endoscopic ultrasound-guided transluminal drainage for aseptic splenic abscess using a forward-viewing endosonoscope.