A 43-year-old man who was known to have alcoholic chronic pancreatitis presented with upper gastrointestinal bleeding (UGIB) with shock in September 2016. He was resuscitated with crystalloids and a blood transfusion. He underwent gastroduodenoscopy, colonoscopy, and computed tomographic angiography (CTA), but no source of bleeding was revealed. He had a second episode of UGIB in December 2017. CTA on this occasion revealed contrast extravasation, probably from the left inferior phrenic artery (LIPA) (▶ Fig. 1). Digital subtraction angiography (DSA) confirmed the contrast leak from the LIPA (▶ Fig. 2), but embolization could not be performed owing to dissection of the artery during wire manipulation. Percutaneous thrombin (500 units) was therefore injected using a trans-splenic approach under Doppler ultrasonography guidance (▶ Fig. 3) with subsequent thrombosis of the pseudoaneurysm. The patient re-bleed 1 month later and CTA showed a revascularized LIPA pseudoaneurysm. Because of the large size of the pseudoaneurysm and the previously failed DSA, endoscopic ultrasonography (EUS)-guided obliteration was planned. Linear EUS examination from the gastroesophageal junction showed a large pseudoaneurysm (3.6 × 2.3 cm). The pseudoaneurysm was punctured with a 19-gauge needle (Echo-19; Cook India) and 3 mL undiluted N-butyl 2-cyanoacrylate glue (NBCA) was injected to completely obliterate the pseudoaneurysm including the feeding vessel (▶ Video 1). There has been no recurrence of bleeding during the subsequent 9 months of follow-up.

Chronic pancreatitis-associated pseudoaneurysmal bleeding is well known. EUS has been reported as being useful both for the diagnosis and embolization of pseudoaneurysms [1]. The present case was unusual in many respects: (i) the involvement of the LIPA is rare with only one published report in chronic pancreatitis and the location of the pseudoaneurysm made it unsuitable for percutaneous intervention [2]; (ii) the pseudoaneurysm was large (>3 cm in size); and (iii) EUS-guided glue injection has been used infrequently. Because of the

▶ Video 1  Endoscopic ultrasonography-guided injection of N-butyl 2-cyanoacrylate glue with subsequent obliteration of the large left inferior phrenic artery pseudoaneurysm.
technical difficulty during DSA, we re-sorted to EUS-guided NBCA injection to treat this patient’s pseudoaneurysm [3].

Competing interests

None

The authors

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