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-bled 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
technical difficulty during DSA, we re-
sorted to EUS-guided NBCA injection to
treat this patient’s pseudoaneurysm [3].

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Competing interests

None

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