Endoscopic ultrasound (EUS)-guided biliary drainage is an alternative when endoscopic retrograde cholangiopancreatography (ERCP) has failed [1, 2]. Covered self-expandable metal stents (CSEMS) or dedicated plastic stents are usually deployed [3, 4]; however, especially when using a transhepatic approach, these stents have a risk of migrating into the abdominal cavity before fistula creation between the hepatic parenchyma and luminal wall. Plastic stents have a smaller diameter than CSEMS, so carry a greater risk of early stent occlusion if the bile is infected and viscous. If total gastrectomy is required, mucosa on the opposite side can become damaged when using CSEMSs. Therefore, an endoscopic nasobiliary drainage (ENBD) tube may be more effective, especially for EUS-guided hepaticojejunostomy (HJS). Because this is an external drainage technique, internal drainage using a plastic stent is however also required. Exchanging a stent from an ENBD tube to a plastic stent can be challenging because the lumen of the intestine is limited in size and the diameter of the fistula is small. We herein describe safe stent exchange using an ENBD-guided approach.

An 81-year-old man underwent EUS-HJS for bile duct obstruction and acute cholangitis caused by gastric cancer peritonitis; however, the bile was extremely infected and viscous, so EUS-HJS was performed using an ENBD tube (▶ Fig. 1a). Internal drainage was attempted once the cholangitis had resolved. The ENBD tube was repositioned from the nose to the mouth, as previously described [5]. A duodenoscope was then inserted over the ENBD tube into the intestine.
A guidewire was inserted into the ENBD tube, which was exchanged (▶ Fig. 1c). After cholangiography had been performed (▶ Fig. 1d), a dedicated plastic stent was successfully deployed over the guidewire (▶ Fig. 1e; ► Video 1). In conclusion, our technique using an ENBD tube is clinically useful and safe for biliary access during EUS-guided biliary drainage.

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Competing interests

The authors declare that they have no conflict of interest.

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