Endoscopic ultrasound (EUS)-guided biliary access has recently been indicated not only for malignant biliary obstruction but also for benign biliary stricture [1–4]. Among EUS-guided biliary drainage routes, EUS-guided hepaticogastrectomy (HGS) may be the most challenging procedure because the diameter of the intrahepatic bile duct is smaller than the extrahepatic bile duct. In addition, if the intrahepatic bile duct is not dilated, such as in benign biliary disease, EUS-guided access may be challenging. Recently, EUS-HGS under contrast-enhanced EUS has been reported as a novel technique [5]. The concept of this technique is to obtain a clear image of the bile duct. We herein describe technical tips for contrast-enhanced EUS-guided access to a nondilated bile duct.

A 55-year-old woman was admitted to our hospital because of liver abscess. She had undergone pancreaticoduodenostomy for intraductal papillary mucinous neoplasm 3 years previously. She also experienced frequent cholangitis due to hepaticojejunum stricture (HJS), which can lead to liver abscess. The liver abscess was treated by percutaneous transhepatic abscess drainage. After this procedure, an EUS-guided approach was attempted to treat the HJS (Video 1). Dilatation of the intrahepatic bile duct was not observed (Fig. 1a). To detect the biliary tracts, sonographic contrast agent (Sonazoid; Daiichi-Sankyo, Tokyo, Japan) was intravenously administered. The narrow intrahepatic bile duct was visualized (Fig. 1b). This bile duct was carefully punctured using a 19-gauge aspiration needle. After the cholangiogram was obtained, a 0.025-inch guidewire was carefully inserted into the biliary tract. Finally, a covered metal stent was deployed from the intrahepatic bile duct to the stomach.

Contrast-enhanced EUS-guided biliary drainage has clinical impact not only for obtaining a clear image of the bile duct but also in cases of nondilated bile ducts.

Endoscopy_UCTN_Code_TTT_1AS_2AD
Competing interests

None

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DOI https://doi.org/10.1055/a-0885-9722
Published online: 2.5.2019
Endoscopy 2019; 51: E211–E212
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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Fig. 2 Contrast enhancement. a The contrast medium was injected and a cholangiogram was successfully obtained. b A 0.025-inch guidewire was successfully inserted into the biliary tract. c A covered metal stent was deployed from the intrahepatic bile duct to the stomach.