For performance of endoscopic ultrasound-guided biliary drainage (EUS-BD), such as with EUS-guided hepaticogastrostomy (EUS-HG) [1, 2], the fistula must be dilated so that the stent delivery system can be inserted [3]. We demonstrate herein a simplified technique for performing EUS-BD with a novel fine-gauge balloon catheter (REN Biliary Dilation Catheter; Kaneka Corporation, Osaka, Japan). This balloon catheter is designed for use coaxially with a 0.025-inch guidewire (Fig. 1), having a lumen through which the guidewire can be advanced. In addition the catheter tip is only 3 Fr in diameter and is tapered. For an EUS-BD procedure, the dilation device must have a fine gauge and adequate stiffness to dilate the fistula. After the bile duct has been punctured with a 19-gauge aspiration needle, this balloon catheter can easily be inserted without any dilation devices. Therefore, the risk for bile leakage from the fistula may be decreased because no device exchange is needed and the procedure time is reduced.

A 77-year-old woman admitted for obstructive jaundice due to pancreatic cancer underwent distal gastric resection with a Roux-en-Y procedure. EUS-HG was selected as the biliary drainage method. First, we punctured the left intrahepatic bile duct with a 19-gauge aspiration needle (Fig. 2a) and injected contrast medium. The lower biliary duct was obstructed. Then, we inserted the stiff 0.025-inch guidewire (Fig. 2b). After the guidewire had been inserted into the intestine, the novel balloon catheter was easily and smoothly inserted into the intestine across the stricture site and
used to dilate the intrahepatic bile duct and stomach wall (Fig. 2c). A metallic stent was placed in antegrade fashion (Fig. 2d). Finally, EUS-HG was performed (Fig. 3, Video 1). No adverse events occurred, and the procedure time was only 21 minutes.

This novel balloon catheter facilitates fistula dilation in EUS-BD procedures, and the procedure time may be reduced.

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**Competing interests:** None

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**Video 1**

The intrahepatic bile duct is punctured with a 19-gauge aspiration needle, and contrast medium is injected. The guidewire is inserted, and then the novel balloon catheter is easily inserted. After balloon dilation, antegrade stent placement is performed. Finally, endoscopic ultrasound-guided hepaticogastrostomy is completed.