Forward-viewing echoendoscope-guided pancreatic duct drainage using a diathermic dilator for a severely stenotic pancreaticojejunal anastomosis

Pancreatic duct (PD) drainage is mainly indicated for main pancreatic duct (MPD) stenosis owing to chronic pancreatitis and stenotic surgical anastomoses. Transpapillary or transanastomotic PD drainage can be performed by endoscopic retrograde pancreatography (ERP) or balloon-assisted ERP but, for difficult cases, percutaneous or surgical PD drainage is considered [1–3]. Recently, endoscopic ultrasound (EUS)-guided PD drainage has been reported, with a high success rate [4].

Here, we present the case of a patient with a stenotic pancreaticojejunal anastomosis after pylorus-preserving pancreaticoduodenectomy with the Imanaga reconstruction (PPPD-Imanaga), in which a pancreatic stent was successfully placed using a forward-viewing echoendoscope and diathermic dilator. An 80-year-old man with carcinoma of the papilla of Vater who had undergone PPPD-Imanaga presented with abdominal symptoms and an elevated serum amylase level. Magnetic resonance cholangiopancreatography showed a dilated MPD without any recurrent masses, which was suggestive of stenosis of the anastomosis (▶Fig. 1). Repeated attempts during transanastomotic ERP failed to cannulate the MPD, so EUS-guided PD drainage was performed (▶Video 1).

The PPPD-Imanaga is designed to create an end-to-end gastrojejunostomy, followed by an end-to-side pancreaticojejunostomy, and a choledochojejunostomy, meaning it is easy to reach the pancreaticojejunal anastomosis on upper gastrointestinal endoscopy [5]. In this case, EUS with a forward-viewing echoendoscope (TGF-UC260J; Olympus, Tokyo, Japan) confirmed the pancreaticojejunal anastomosis and dilation of the MPD to 6 mm in diameter (▶Fig. 2 and ▶Fig. 3). The MPD was punctured using a 19-gauge needle, which was confirmed by the injection of contrast medium (▶Fig. 4). A guidewire was passed through the MPD and, because of the hard scar tissue around the anastomosis site due to the surgery, the puncture site was dilated using a diathermic dilator (Fine 025; Medico’s Shirata Inc., Osaka, Japan). Next, a 7-Fr plastic stent was placed into the MPD (▶Fig. 5). The devices were easily inserted because...
with stenotic anastomoses, especially those that are complicated with post-operative hard scar formation.

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Competing interests

The authors declare that they have no conflict of interest.

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