Successful biliary drainage in a patient with a giant hiatal hernia and pancreatic prolapse using the percutaneous–endoscopic rendezvous technique

In patients who have a giant hiatal hernia, it is often difficult to advance a duodenoscope to the papilla of Vater [1]. In extremely rare cases of pancreatic prolapse into the thoracic cavity, endoscopic retrograde cholangiopancreatography (ERCP) is challenging because the orientation of the bile and pancreatic ducts is inverted [2, 3]. Herein, we report a case of successful biliary drainage, performed using the percutaneous–endoscopic rendezvous technique, in a patient with a giant hiatal hernia and pancreatic prolapse [4].

An 88-year-old woman was transferred from another hospital for treatment of obstructive jaundice due to distal bile duct cancer. Contrast-enhanced computed tomography revealed a giant hiatal hernia with pancreatic prolapse into the thoracic cavity (▶Fig.1). Magnetic resonance cholangiopancreatography revealed that the orientation of the bile duct was inverted (▶Fig.2). Although ERCP was attempted with a duodenoscope, access to the papilla was difficult owing to the giant hiatal hernia. We did reach the papilla using a forward-viewing scope (SIF-H290S; Olympus, Tokyo, Japan), but attempted biliary cannulation failed, even after performing precutting. Subsequently, the percutaneous–endoscopic rendezvous technique was performed. The B5 bile duct was punctured percutaneously, and the guidewire (Visi-Glide 2; Olympus) was advanced to the duodenum. The forward-viewing scope was advanced to the papilla, and biliary cannulation was achieved alongside the guidewire (▶Fig.3). Finally, a covered self-expanding metal stent (WallFlex Biliary RX Stent, 10×60 mm; Boston Scientific Corp., Natick, Massachusetts, USA) was successfully deployed (▶Video 1; ▶Fig.4). The patient was discharged 4 days after the procedure without any adverse events. She had no symptoms until a year later, when the jaundice again flared up.

More recently, endoscopic ultrasonography-guided biliary drainage has been developed but, in patients with a giant hiatal hernia, there is a risk of mediastinitis occurring from the punctured thoracic cavity. Consideration of a multidisciplinary approach is indispensable to ensure patient safety in difficult cases.
Competing interests

A. Katanuma has received lecture fees from Olympus Co., Tokyo, Japan. The remaining authors declare that they have no conflict of interest.

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E-Videos

Video 1 Successful biliary drainage is performed in a patient with a giant hiatus hernia and pancreatic prolapse using the percutaneous–endoscopic rendezvous technique.

Fig. 4 Fluoroscopic view after deployment of a covered self-expanding metal stent; the hernia relapsed immediately after endoscopic retrograde cholangiopancreatography was completed.

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