Endoscopic ultrasound-guided gallbladder drainage using a forward-viewing echoendoscope after Billroth II gastrectomy

Endoscopic ultrasound-guided gallbladder drainage (EUS-GBD) is effective for treating cholecystitis [1, 2]; however, its application is challenging in patients with surgically altered anatomy [3]. In such patients, the forward-viewing echoendoscope (FV-EUS) is useful [4]. Here, we report a case of a patient who underwent EUS-GBD using FV-EUS after Billroth II gastrectomy.

An 88-year-old woman with acute cholecystitis secondary to placement of a covered metal stent was admitted to our hospital (Fig. 1). The patient had previously undergone Billroth II gastrectomy for a duodenal ulcer. Initially, she underwent percutaneous transhepatic gallbladder drainage (PTGBD) (Fig. 2), followed by EUS-GBD using FV-EUS, which was conducted for the conversion to internal drainage (Video 1).

Before EUS-GBD, a gastroscope (GIF-Q260; Olympus, Tokyo, Japan) was inserted into the afferent loop, and a 0.035-inch guidewire (Boston Scientific Corporation, Marlborough, Massachusetts, USA) was placed. Subsequently, the FV-EUS (TGF-UC260J; Olympus) was advanced to the blind end along the guidewire. In the second part of the duodenum, the gallbladder was observed using ultrasonography after saline injection through the PTGBD. The gallbladder body was punctured with a 19-gauge needle (EZ shot 3; Olympus), and a 0.025-inch guidewire (VisiGlide2; Olympus) was inserted to a sufficient length. The punctured tract was dilated using a 7 Fr mechanical dilator (ES Dilator; Zeon Medical, Tokyo, Japan). A second guidewire was placed using an uneven double-lumen catheter (PIO LAX Inc., Kanagawa, Japan). Finally, a double-pigtail plastic stent (7 Fr and 7 cm; Zimmon Biliary Stent, Wilson Cook Medical, Winston-Salem, North Carolina, USA) was successfully placed in the gallbladder (Fig. 3). With the contrast medium flowing smoothly through the pigtail
The gallbladder body was punctured with a 19-gauge needle. A 0.025-inch guidewire was inserted to a sufficient length. A double-pigtail plastic stent was placed.

Conflict of Interest

The authors declare that they have no conflict of interest.

The authors

Yuichiro Tozuka1,2, Kazuya Sugimori2, Haruo Miwa2, Takashi Kaneko2, Makoto Ueno1, Junji Furuse1, Shin Maeda3
1 Department of Gastroenterology, Kanagawa Cancer Center, Yokohama, Japan
2 Gastroenterological Center, Yokohama City University Medical Center, Yokohama, Japan
3 Department of Gastroenterology, Yokohama City University Graduate School of Medicine, Yokohama, Japan

Corresponding author

Yuichiro Tozuka, MD, PhD
Department of Gastroenterology, Kanagawa Cancer Center, 2-3-2 Nakao Asahi-ku, Yokohama City 241-8515, Japan
tozuka.kcch@gmail.com

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Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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