Re-intervention for recurrent biliary obstruction after endoscopic ultrasound hepaticogastrostomy with partially covered self-expandable metal stent

The use of the endoscopic ultrasound-guided hepaticogastrostomy (EUS-HGS) method for malignant biliary stricture has increased. A partially covered self-expandable metal stent (PCSEMS) is often selected for the procedure, and re-intervention is challenging because of the long length of stent protrusion inside the stomach. Several re-intervention methods, including trimming and stent penetration using electrical devices, have been reported [1–4]; however, the complexity and time-consuming nature of these procedures pose limitations. Here, we report the simplest of novel re-intervention methods for PCSEMS dysfunction after an EUS-HGS.

A 65-year-old woman with unresectable pancreatic cancer and duodenal obstruction underwent EUS-HGS using a PCSEMS (Niti-S biliary S-type; 8-mm × 10-cm covered stent with a 1-cm uncovered portion; Taewoong Medical, Seoul, South Korea). After 8 months had passed, recurrent biliary obstruction occurred due to bile duct hyperplasia at the stent edge (▶ Fig. 1). Stent removal with a grasping forceps was not possible because it was firmly anchored by the overgrown tissue. Inserting a guidewire and a catheter parallel to the stent to access the bile duct was also not feasible. We therefore penetrated the stent mesh close to the stomach wall with a guidewire (Visiglide2; Olympus, Tokyo, Japan) and a catheter (Tandem XL ERCP Cannula; Boston Scientific Corporation, Marlborough, Massachusetts, USA). These devices were advanced into the stent (▶ Fig. 2), and bypassed the stricture allowing access to the bile duct. The biliary stricture and the stent mesh, at the entry point of the wire and catheter, were dilated with a balloon catheter (REN; 8-mm wide; Kaneka Medix Corporation, Tokyo). A fully covered SEMS (Niti-S biliary S-type; 6-mm × 8-cm long covered stent; Taewoong Medical) was threaded through the dilated tract and successfully de-
ployed (▶ Fig. 3, ▶ Video 1). This procedure was completed without any adverse events. This novel re-intervention method involving penetration of the stent mesh near the stomach wall is simple, safe, and efficient.

Endoscopy_UCTN_Code_CPL_1AL_2AD

Acknowledgment

This work was supported in part by The National Cancer Center Research and Development Fund 31-A-13.

Competing interests

None

The authors

Kosuke Maehara1, Susumu Hijioka1, Shih Yea Sylvia Wu2, Akihiro Ohba2, Yasunari Sakamoto1, Takuji Okusaka1, Yutaka Saito2
1 Department of Hepatobiliary and Pancreatic Oncology, National Cancer Center Hospital, Tokyo, Japan
2 Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan

Corresponding author

Susumu Hijioka, MD
Department of Hepatobiliary and Pancreatic Oncology, National Cancer Center Hospital, 5-1-1 Tsukiji, Chuo-ku, Tokyo, Japan
Fax: +81-3-35423815
shijioka@ncc.go.jp

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DOI https://doi.org/10.1055/a-0915-1718
Published online: 2019
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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