Endoscopic ultrasound-guided hepaticogastrostomy combined with antegrade stenting using a double bare covered metal stent

Endoscopic ultrasound-guided hepaticogastrostomy (EUS-HGS) has been indicated for failed endoscopic retrograde cholangiopancreatography (ERCP) [1, 2]. Recently, to obtain a longer duration of stent patency or avoid adverse events, EUS-HGS combined with antegrade stenting (EUS-HGAS) has been reported [3, 4]. In this procedure, an uncovered, self-expandable metal stent (UCSEMS) is usually used to avoid stent dislocation. However, compared with a fully covered, self-expandable metal stent (FCSEMS), longer stent patency may not be achieved [5]. A novel, double bare, partially covered, self-expandable metal stent (D-FCSEMS, EGIS Biliary Stent; S&G Biotech Inc., Yongin-si, Korea) (▶ Fig. 1) has become available in Japan. This stent has low axial force compared with conventional FCSEMS, and high radial force compared with conventional UCSEMS. Therefore, this stent may be suitable for EUS-HGAS. Herein, we describe technical tips for EUS-HGAS using the D-FCSEMS (▶ Video 1).

An 82-year-old man was admitted to our hospital with obstructive jaundice caused by advanced pancreatic cancer.

Although ERCP was attempted, the duodenoscope could not be advanced into the duodenum owing to duodenal obstruction from pancreatic cancer invasion. Therefore, EUS-guided biliary access was attempted. First, the intrahepatic bile duct was punctured using a 19-gauge fine-needle aspiration needle, and contrast medium was injected. Then, the guidewire was inserted into the biliary tract, followed by a balloon catheter; contrast medium was injected again. After the guidewire was advanced into the intestine across the obstruction site, a double bare, partially covered, self-expandable, metal stent was deployed. Finally, endoscopic ultrasound-guided hepaticogastrostomy was successfully performed.

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Endoscopy_UCTN_Code_TTT_1AR_2AI

Competing interests

None
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DOI https://doi.org/10.1055/a-0767-6171
Published online: 2018
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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Fig. 2 Cholangiography. a The intrahepatic bile duct was punctured using a 19-gauge needle, and contrast medium was injected. b Obstruction of the middle common bile duct was seen. c Antegrade stent deployment from the lower to the upper common bile duct was performed using the double bare, partially covered, self-expandable, metal stent. d Endoscopic ultrasound-guided hepaticogastrostomy was successfully performed.

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