Simultaneous stent placement for biliary and afferent loop obstruction due to tumor recurrence after pancreatoduodenectomy

After pancreaticoduodenectomy, patients experiencing tumor recurrence involving the Roux limb can suffer from afferent loop syndrome, cholangitis, and jaundice [1]. Placement of expandable metal stents at the site of enteral obstruction is considered a reasonable treatment option [2–4]. However, when the tumor recurs near the choledochojejunostomy, biliary and enteral stent placements would be required to decompress the dilated bile duct and afferent loop. Herein we report the first case of afferent loop syndrome with cholangitis and liver abscess treated by simultaneous metal stent placement using the stent-in-stent technique.

A 55-year-old woman with a 2-year history of pancreaticoduodenectomy with modified Child reconstruction for pancreatic cancer was admitted to our hospital for the treatment of cholangitis. Contrast-enhanced computed tomography showed the dilatation of the afferent loop and the bile duct due to a recurrent tumor near the choledochojejunostomy and a liver abscess in the right hepatic lobe. A lower gastrointestinal endoscope (PCF-Q260J; Olympus, Tokyo, Japan) was inserted into the afferent loop (▶ Video 1). A guidewire was advanced across the stricture and inserted into the bile duct; contrast injection revealed the stenotic regions of the afferent loop. Another guidewire was placed in the dilated afferent loop (▶ Fig. 1). Subsequently, we proceeded with the placement of two uncovered stents (A: enteral, 22 mm in diameter, 100 mm long, Niti-S duodenal; and B: metallic, 10 mm in diameter, 100 mm long, Niti-S large cell; Taewoong Medical, Seoul, Korea). Stent A was placed in the afferent loop (▶ Fig. 2); then, a guidewire was advanced toward the bile duct through the stent mesh of the enteral stent and stent B was placed successfully using the stent-in-stent technique (▶ Fig. 3). No complications were observed; the patient’s liver abscess and cholangitis improved.

Endoscopy_UCTN_Code_TTT_1AR_2AK
Competing interests

The authors declare that they have no conflict of interest.

The authors

Tatsunori Satoh, Hirotoshi Ishiwatari, Kazuma Ishikawa, Hidenori Kimura, Hiroyuki Matsubayashi, Hiroyuki Ono
Division of Endoscopy, Shizuoka Cancer Center, Shizuoka, Japan

Corresponding author

Hirotoshi Ishiwatari, MD
Division of Endoscopy, Shizuoka Cancer Center, 1007 Shimonagakubo Nagaizumicho, Sunto-gun, Shizuoka 411-8777, Japan
Fax: +81-55-989-5551
ishihiro481019@gmail.com

References


Bibliography

Endoscopy
DOI 10.1055/a-1662-4433
ISSN 0013-726X
published online 2021
© 2021. Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

ENDOSCOPY E-VIDEOS
https://eref.thieme.de/e-videos

Endoscopy E-Videos is a free access online section, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at
https://mc.manuscriptcentral.com/e-videos