A 64-year-old man with metastatic cecal adenocarcinoma on palliative chemotherapy presented with both cholangitis and persistent vomiting. Computed tomography demonstrated a dilated common bile duct and gastric outlet obstruction from a malignant stricture at the second part of the duodenum (D2) involving the papilla (▶ Fig. 1). A diagnosis of type 2 combined malignant biliary and duodenal obstruction (CMBDO) was made.

Percutaneous biliary drainage was not suitable because of borderline intrahepatic biliary dilatation and patient refusal. The advanced malignancy and ongoing cholangitis precluded surgery. The endoscopic approach was challenging in this case because tumor infiltration of the papilla was causing obstruction and thus prevented conventional endoscopic retrograde cholangiopancreatography (ERCP), and placement of a biliary stent would be difficult following deployment of a duodenal stent. We therefore performed endoscopic ultrasound (EUS)-guided choledochoduodenostomy (CDS) using the HOT AXIOS stent (10 × 10 mm; Boston Scientific, Marlborough, Massachusetts, USA) followed by subsequent stenting of the duodenal obstruction using a WallFlex metal stent (22 × 90 mm; Boston Scientific) (▶ Fig. 2, ▶ Video 1).

We highlight the use of the lumen-apposing HOT AXIOS stent to prevent stent migration and bile leak compared with conventional covered biliary metal stents. The enhanced electrocautery delivery system facilitates direct puncture during stent insertion. Without this delivery device, serial dilatation is required during stent insertion, which risks bile leakage [1]. The flanges with lumen-apposing forces also help to prevent bile leak. As CMBDO could lead to cholangitis and recurrent vomiting, palliative options are essential for patient comfort. Treatment options of CMBDO depend on the location and sequence of obstruction [2]. EUS-guided CDS using the HOT AXIOS stent is a feasible therapeutic and palliative alternative for challenging CMBDO when biliary cannulation using conventional ERCP is difficult.
Competing interests

Dr Damien Meng Yew Tan has received consultation and lecture fees from Boston Scientific in the past 3 years.
Dr Christopher Khor has received lecture fees from Boston Scientific in the past 3 years.
Dr Yu Jun Wong has no conflict of interest.
Dr Jonathan Guo Xiang Teh has no conflict of interest.

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