Double-pigtail plastic stent is effective as a rescue therapy after obstruction of choledochoduodenostomy using a lumen-apposing metal stent



▶ Fig. 1 Gastroscopy revealed invasion of the duodenal stent and obstruction of the proximal flange of the lumen-apposing metal stent with bezoars.



▶ Fig. 2 Double-pigtail plastic stent in the lumen-apposing metal stent (view from the gastric antrum with transpyloric duodenal stent).

Endoscopic ultrasound (EUS)-guided choledochoduodenostomy using a lumen-apposing metal stent (LAMS) is an effective alternative when endoscopic retrograde cholangiopancreatography fails or is impossible [1–3]. However, although the technique opens up new therapeutic possibilities, it is also associated with new complications, such as obstruction, for which an optimal treatment has not yet been clearly established [4].

We report the case of a 62-year-old patient with metastatic pancreatic adenocarcinoma of the liver exhibiting duode-





▶ Video 1 Double-pigtail plastic stent placement is an effective rescue therapy after obstruction of a lumen-apposing metal stent placed during choledochoduodenostomy.

nal invasion. Initial management featured the insertion of a 6-mm LAMS (Hot AXIOS; Boston Scientific, Marlborough, Massachusetts, USA) to allow biliary drainage and a metallic duodenal stent (Wallflex; Boston Scientific) to treat the parietal and ampullary infiltration.

After 1 month, the patient presented with fever, abdominal pain, and jaundice suggestive of a LAMS obstruction. Gastroscopy revealed invasion of the duodenal stent and that the proximal flange of the LAMS was obstructed by food bezoars (▶ Fig. 1). After the obstruction was cleared using a lavage pump, we placed a 7-Fr, 10-cm double-pigtail biliary stent (Boston Scientific) inside the LAMS (▶ Fig. 2, ▶ Video 1).

Opacification evident at the end of the procedure confirmed permeability of the biliary and duodenal prostheses (**> Fig. 3**). Over the following days, the biological jaundice and hyperthermia decreased, allowing resumption of chemotherapy.

The addition of a double-pigtail, plastic biliary stent efficiently ensures LAMS patency, especially in cases of duodenal



➤ Fig. 3 Opacification showing permeability of the biliary and duodenal prostheses.

stenosis associated with risks of recurrent obstruction caused by bezoar impaction.

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Competing interests

J. Albouys is a consultant for Biogen. R. Legros is a consultant for Olympus and Boston Scientific and has received (ESD Training) from Erbe. V. Loustaud-Ratti is a speaker for Gilead and Abbvie. M. Pioche is a consultant for Olympus, Boston Scientific and 3D matrix and has received ESD training from Cook Medical and Olympus. J. Jacques is a consultant for Olympus, Boston Scientific and has received ESD Training from Erbe.

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