Choledochoduodenostomy for the treatment of portal cavernoma biliary stenosis to avoid bloody ERCP

Endoscopic ultrasound-guided biliary drainage (EUS-BD) has emerged as an alternative to endoscopic retrograde cholangiopancreatography (ERCP) in cases of cannulation failures [1–3]. Two options are possible: choledochoduodenostomy or hepaticogastrostomy; however, these procedures are associated with higher morbidity, including bleeding [4] and bile leakage.

We report here the case of a 54-year-old man who presented with a portal cavernoma of unknown origin since 1987. The patient had undergone porto-cave diversion with splenectomy in 1989. Despite this treatment, he developed severe portal hypertension with several episodes of bleeding (Fig. 1). In 2013, he suffered from angiocholitis related to a bile duct stenosis due to his cavernoma. Lithiasis appeared above the stenosis and required several therapeutic ERCPs with stent insertion (Fig. 2). In June 2017, during stone extraction, a severe acute bleeding with hemodynamic collapse related to pericholedochal varice rupture was treated by metallic stent compression. The stent was removed 6 months later because of occlusion. After recurrence of angiocholitis within 3 months, a multidisciplinary team decided to attempt EUS-guided drainage, considering the high risk of bleeding with ERCP (Video 1).

We first attempted hepaticogastrostomy but liver fibrosis prevented direct access to the dilated duct. Then, we converted to choledochoduodenostomy, as an area free from varices was found in the duodenal bulb. After puncture, a cystotome was used before delivering a covered metal stent. Good biliary drainage was

▶Fig. 1 The cavernoma on computed tomography scan. a, b Bile duct dilation above the cavernoma (arrows). c Varices (arrow).
achieved without any bleeding. Three months later, angiocholitis occurred as a result of stent occlusion by the stones that had not been extracted previously. Stent exchange resulted in clearing of stones from the bile duct and resolution of symptoms.

Portal cavernoma is a rare cause of biliary stenosis and highly challenging to treat, with frequent recurrences [5]. Proposing EUS-guided drainage to drain the bile duct above the cavernoma could be an alternative to ERCP to prevent intraductal variceal bleeding.

Competing interests

None

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