Resolution of a refractory severe biliary stricture using a diathermic sheath

Endoscopic treatment of postoperative bile duct strictures (BDSs) is safe and effective [1]. However, when the BDS is severe and only the guide wire can be passed through it, stent placement is not possible. We describe a case of refractory, severe postoperative hilar BDS that was successfully treated using a diathermic sheath.

A 47-year-old man was admitted to our department with recurrent cholangitis. He had previously undergone surgical treatment for gallbladder cancer in 2009, which was followed by regular placement of 7-Fr tube stents for BDS, until the stent was removed at the request of the patient, despite the fact that endoscopic retrograde cholangiopancreatography (ERCP) still revealed a BDS. As a result, 17 months later he developed cholangitis. An ERCP following admission revealed severe hilar BDSs (Fig. 1a). Although a 0.035-inch guide wire was successfully advanced across the left hepatic BDS (Fig. 1b), it was not possible to pass a tapered catheter, Soehendra biliary dilation catheter, or stent retriever (Wilson-Cook, Winston-Salem, North Carolina, USA; Video 1). It was therefore decided to incise the BDS using a 6-Fr diathermic sheath (Cysto-Gastro-Set; Endo-Flex, Voerde, Germany; Fig. 2), which was advanced over the guide wire to the level of the left hepatic BDS (Fig. 3a; Video 1). An incision was made in the BDS using an electrosurgical generator (Fig. 3b, Video 1) and a 5-Fr nasobiliary tube was placed. The patient experienced no serious complications. An ERCP 5 days later revealed resolution of the left hepatic BDS (Fig. 4a), and 7-Fr plastic stents were successfully placed (Fig. 4b).

Diathermic sheaths have been used previously to enlarge the channel between the stomach or duodenum and a pancreatic pseudocyst, the pancreatic duct or the gallbladder [2–5]. To our knowledge, this is the first report of a refractory, severe postoperative BDS successfully treated using a diathermic sheath. Although further study is required, this approach has great potential for selected patients with refractory BDS.

Competing interests: None
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