Benign biliary obstruction may occur in patients with chronic pancreatitis [1,2]. Endoscopic placement of a fully covered self-expandable metallic stent (FCSEMS) for biliary drainage is an effective treatment strategy for biliary obstruction [3]. However, the migration rate of FCSEMSs is approximately 10% to 33% [4,5]. We report successfully repositioning a dislocated biliary FCSEMS using a choledochoscope.

A 49-year-old man with chronic pancreatitis with benign bile duct stenosis was admitted due to obstructive jaundice. Endoscopic retrograde cholangiopancreatography (ERCP) was performed and a FCSEMS (EVO-FC, 6 cm; Cook Medical) was placed. The patient developed a fever on the 15th day after the operation. Abdominal computed tomography indicated migration of the biliary FCSEMS (▶ Fig.1). Another ERCP procedure was performed. Cholangiography indicated that the FCSEMS in the common bile duct (CBD) had moved into the proximal bile duct and the stent was mobile (▶ Fig.2). The lower segment of the CBD (a length of 2 cm) was significantly narrowed, while the diameter of the middle and upper segments of the CBD was dilated to approximately 1.3 cm. We used a choledochoscope (SpyGlass; Boston Scientific) to reposition the FCSEMS (▶ Fig.3). The retrieval string of the FCSEMS was visible. A biopsy forceps (SpyBite Max; Boston Scientific) was inserted through the accessory biopsy channel of the choledochoscope (▶ Fig.4) and the retrieval string was grasped under direct visualization. The displaced FCSEMS was partially pulled out to the opening of the duodenal papilla. Finally, the stent was fixed to the papilla opening with a hemostatic clip (ROCC-F-26-16SC; Micro-Tech) to prevent it from moving again (▶ Fig.5, ▶ Video 1). Choledochoscope-assisted repositioning of biliary FCSEMSs can be considered as feasible and has the advantages of safety and easy operation. Repositioned stents are not deformed and can continue to be used. However, in clinical practice the therapeutic choice between using the choledochoscope to adjust a displaced FCSEMS or to replace the displaced stent with a new FCSEMS should be based on a comprehensive consideration of all the elements including local medical conditions and medical expenses.

Conflict of Interest

The authors declare that they have no conflict of interest.
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