Arteriobiliary fistula is an uncommon complication resulting from hepatic intra-arterial chemotherapy. We present a case of successful endoscopic intervention using a fully covered self-expandable metallic stent (SEMS) to treat an iatrogenic arteriobiliary fistula. A 71-year-old man with multiple liver metastases from pancreatic cancer was admitted. He had undergone distal pancreatectomy. He had also undergone chemotherapy with multiple regimens during the past 43 months and percutaneous transfemoral implantation of the catheter-port system for intra-arterial chemotherapy to treat his liver metastases. Three months after catheter placement, he developed sepsis, with positive results on bacterial blood cultures. The reason for the sepsis could not be determined using computed tomography. However, angiography via the catheter revealed a fistula between the hepatic artery and the extrahepatic bile duct (Fig. 1), indicating the fistula as the cause of the sepsis. Because of catheter-related thrombosis, the implanted catheter-port system could not be removed, so we decided to seal the arteriobiliary fistula endoscopically. Duodenoscopy revealed no hemobilia in the ampulla of Vater (Fig. 2). A fully covered SEMS (ComVi, 10 × 80 mm; Taewoong-Medical Co., Ltd., Gyeonggi-do, Korea) (Fig. 3) was inserted, and the fistula was sealed successfully without any complications (Fig. 4). The patient did not require any treatment for the arteriobiliary fistula thereafter. Arteriobiliary fistula after intra-arterial chemotherapy has been reported in only a few cases [1–4]. Embolization of the catheter track or the branch of the hepatic artery is a reported treatment [4]. More recently, percutaneous transhepatic placement of a covered SEMS to treat an intrahepatic arteriobiliary fistula has been described [5]. To our knowledge, however, ours is the first report of an arteriobiliary fistula treated endoscopically using a fully covered SEMS. Endoscopic placement of a fully covered SEMS should be recognized as a treatment option for arteriobiliary fistulas, as it could obviate the need for an arteriogram.
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Fig. 4 Radiograph showing the arteriobiliary fistula successfully sealed using the fully covered self-expandable metallic stent (inset: endoscopic view of the stent passing through the ampulla of Vater to the duodenum).