Direct cholangiopancreatoscopy for the diagnosis of a pancreaticobiliary fistula is infrequently reported [1,2]. We report the case of a 70-year-old man who presented with cholangitis. A magnetic resonance cholangiopancreatography revealed a complex 6.6 cm cystic mass in the pancreatic head and neck, inseparable from the dilated main pancreatic duct (PD), and a possible fistulous connection between the common bile duct (CBD) and main PD (▶ Fig. 1, ▶ Video 1). Endoscopic ultrasound showed a complex mixed echoic and anechoic lesion in the head of the pancreas consistent with a cyst, measuring 40 × 56 mm (▶ Fig. 2), and communicating with the main PD.

Endoscopic visualization of the ampulla revealed obstructing mucin consistent with fish mouth sign (▶ Fig. 3). Cholangiogram demonstrated a dilated CBD and evidence of a fistula within the main duct communicating with the pancreatic duct. A digital cholangioscopy system (SpyGlass DS; Boston Scientific Corp., Marlborough, Massachusetts, USA) was inserted into the CBD, revealing mucin filling the distal duct to the bifurcation of the hepatic ducts (▶ Fig. 4a). Proximal to the common hepatic duct no further mucin was seen, and the mucosa was normal. The PD was visualized using a digital cholangioscope to map the main duct lesion. There was frond-like PD mucosa throughout the head of the pancreas with mucin (▶ Fig. 4b). The cholangioscope was able to pass through the main PD into the CBD through a pancreaticobiliary fistula.

Cytology revealed a high grade intraductal papillary mucinous neoplasm. An open Whipple was performed with pathology revealing moderately differentiated invasive adenocarcinoma limited to the pancreas, with high grade dysplasia that focally involved the distal CBD.
This case demonstrates the usefulness of direct pancreatoscopy and cholangioscopy as a mapping tool for outlining the extent of malignant mucinous main duct lesions of the pancreas.

Competing interests

None

References


Bibliography

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