Cholangioscopy and electrohydraulic lithotripsy in the management of fistulated pancreatic duct stones

An 80-year-old man with a history of alcohol-induced chronic calcific pancreatitis presented with new pain and obstructive jaundice. The computed tomography (CT) scan confirmed features of chronic pancreatitis and showed a densely calcified stone within the bile duct and associated dilatation (▶ Fig. 1). Endoscopic retrograde cholangiopancreatography (ERCP) demonstrated dense calcified stones within the extrahepatic bile ducts (▶ Fig. 2). Stone extraction was unsuccessful with the extraction balloon and mechanical lithotriptor. A plastic pigtail biliary stent was deployed to assist biliary drainage.

Subsequent magnetic resonance cholangiopancreatography (MRCP) showed continuity of the pancreatic duct and bile duct, suggesting the presence of a pancreatobiliary fistula (▶ Fig. 3). The patient underwent a further ERCP with peroral transpapillary cholangioscopy (▶ Video 1). Direct visualization demonstrated a pancreatobiliary fistula associated with the lower bile duct, as well as the presence of white, heavily calcified stones within the extrahepatic bile ducts. Cholangioscopic assessment of the pancreatic duct through the fistula revealed intraluminal papillary projections, consistent with an intraductal papillary mucinous neoplasm (IPMN). Intraductal electrohydraulic lithotripsy (EHL) and subsequent balloon trawl were used to clear the biliary stones. Biopsies confirmed the presence of an IPMN.

Pancreatobiliary fistulas associated with pancreatic IPMN have previously been described; however, we believe this is the first video-reported case of fistulated pancreatolithiasis that was treated with EHL.
Competing interests
None

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