A 58-year-old woman with cholangiocarcinoma previously treated with partial hepatectomy with Roux-en-Y gastric bypass, presented with worsening jaundice. Despite chemotherapy, the patient was diagnosed with tumor obstructing the hepaticojejunostomy and associated intrahepatic biliary ductal dilation. She was referred for endoscopic retrograde cholangiopancreatography (ERCP) with intra-ductal radiofrequency ablation (RFA). However, conventional ERCP failed because of her altered anatomy. She was offered two-step RFA therapy (▶Video 1). During the first step, the patient underwent a successful endoscopic ultrasound-guided hepatogastrostomy with placement of a 10 mm fully covered self-expanding metal stent, bridged with a 7 Fr × 15 cm plastic double-pigtail stent. One month after biliary decompression and maturation of the hepatogastrostomy, the patient underwent RFA of the malignant stricture and placement of a 7 Fr × 15 cm plastic double-pigtail stent in antegrade fashion, across the stricture (▶Fig. 1).

Unresectable cholangiocarcinoma is a challenging disease, for which chemotherapy and radiotherapy are not typically able to provide significant survival benefits [1]. Local ablative therapies, particularly RFA, have been shown to improve symptoms in malignant biliary strictures [2, 3]. In addition, there is some suggestion that RFA may be associated with improved survival [4]. RFA requires biliary access to determine the location of the stricture. Then the radiofrequency energy can be directly applied at the stricture site. However, when access to the biliary stricture is not feasible during conventional ERCP, a successful two-step RFA via a hepatogastrostomy can be offered successfully, as illustrated by this case.

Video 1 Video demonstrating two process for radiofrequency ablation of a malignant stricture.

Competing interests

Dr. Kahaleh has received research support from Pinnacle, EMcision, and Boston Scientific Corp. He is a consultant for Xlumena, Concordia lab, and Boston Scientific Corp.

E-Videos

E210

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