Ampullectomy of an unusual lesion developing 20 years after endoscopic treatment of a type III choledochocele

A type III choledochocele is a rare congenital cystic dilation of the intraduodenal portion of the main bile duct, representing 5% of all choledochal cysts according to the Toldani classification [1]. Choledochoceles may cause biliary obstruction and carcinoma development with a reported incidence of 2.5%. To date, endoscopic treatment remains the less invasive technique, which consists of cystic mass removal associated with sphincterotomy [2,3]. However, the risk of carcinoma development may persist even after treatment and reports of long-term outcomes are lacking [4].

Herein we report the original case of a 78-year-old woman presenting with a previous history of sphincterotomy for a type III choledochocele 20 years ago (▶Video 1). She presented with a 12-mm low-grade dysplasia adenoma arising from the sphincterotomy scar (▶Fig. 1), mimicking an ampulloma. To the best of our knowledge, such a lesion has yet to be reported. Imaging modalities (endoscopic ultrasound and magnetic resonance imaging) revealed a 9-mm moderate dilation of the main bile duct upstream of a distal stenosis (▶Fig. 2).

A new endoscopic procedure was performed. The patient was placed in a dorsal position under general anesthesia. Similar to an ampullectomy, a duodenscopic under CO2 insufflation was used. An en bloc resection was performed using a 15-mm braided snare (Lariat; Life Partners Europe, Bagnolet, France) and the specimen was immediately retrieved (▶Fig. 3). Cholangiography revealed a delayed clearance of the contrast due to the distal stenosis (▶Fig. 4). Complementary intraductal biopsies of the stenosis were performed using a pediatric biopsy forceps. Prevention of post-ampullectomy pancreatitis was ensured by intrarectal indometacine administration, pancreatic stenting with a 5-Fr×5-cm plastic stent, and ringer lactate hyperhydration. The patient was discharged after 24h without complications.

Final histology confirmed the R0 resection of a low-grade dysplasia adenoma. Biopsies of the stenosis revealed only fibrotic tissue. The 4-month follow-up duodenoscopy confirmed the absence of local recurrence.

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Competing interests

The authors declare that they have no conflict of interest.

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