Duodenal duplication cyst (DDC) is a rare congenital anomaly that typically presents with symptoms during childhood [1]. Acute pancreatitis and biliary obstruction have rarely been reported in adults [2, 3]. Two modalities of treatment have been described for DDCs: surgical [4, 5] and endoscopic, by means of cyst marsupialization [1]. The rationale behind cyst marsupialization is to establish communication between the cyst cavity and the duodenal lumen so that the cystic contents can drain continuously into the duodenum [1].

We report a case of a 22-year-old man with a history of six episodes of acute recurrent pancreatitis (ARP) of unknown origin. Some of the episodes were severe and required hospitalization for 6–49 days. Magnetic retrograde cholangiopancreatography (MRCP) showed a regular cyst in the duodenal lumen, measuring 23 × 17 mm in size, close to the major duodenal papilla (● Fig. 1). The lesion was erroneously diagnosed as a type III choledochal cyst and patient was referred to our institution for endoscopic sphincterotomy. We decided to perform duodenoscopy (○ Fig. 2) and radial endoscopic ultrasound (○ Fig. 3), which showed a bulging duodenal anechoic cyst with distinct walls, situated adjacent to the papilla at its anal margin. The cyst was covered by normal mucosa and measured 2.28 × 1.39 cm, with an internal volume estimated at 2.6 mL. Endoscopic retrograde cholangiopancreatography (ERCP) revealed normal findings, with no communication between the cyst and the pancreatic or common bile duct. A diagnosis of DDC was made and endoscopic treatment by means of cyst marsupialization was proposed.

The procedure involved wide opening of the cyst wall with a needle-knife (Needle-knife Papillotome, Cook Medical, Bloomington, Indiana, USA), followed by...
snare resection of the margins with a rotatable hexagonal snare (Boston Scientific, Natick, Massachusetts, USA) (Video 1). The patient had an uneventful recovery and was discharged after 6 hours of observation. Histological assessment of the specimen confirmed the diagnosis of DDC. The patient has been under clinical and endoscopic follow-up for the past 4 years and remains asymptomatic, with no further episodes of pancreatitis. The 2-year follow-up endoscopy revealed effective communication between the cyst and the duodenal lumen through a wide opening in the cyst margin (Fig. 4).

The present case highlights the need to consider DDC in the differential diagnosis of ARP in young patients, and the lesion must be carefully assessed with duodenoscopy and endoscopic ultrasound in order to distinguish it from a choledochocele. This case also demonstrates that cyst marsupialization is a minimally invasive treatment modality that can provide an adequate specimen for diagnostic confirmation and can be carried out with curative intent in the short and in the long term.

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Competing interests: None

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Video 1
Opening of the cyst wall with a needle-knife, followed by snare resection of the margins with a rotatable hexagonal snare.

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