Direct endoscopy and diagnosis of adenocarcinoma following metal stent-based drainage of a pancreatic cyst

Abdominal ultrasound in a 71-year-old man, 6 months after acute alcoholic pancreatitis, showed a pancreatic cystic structure (4 cm), which was diagnosed as a pancreatic pseudocyst (PPC). Drainage was not performed as the patient was asymptomatic. The PPC showed no size progression at 6-monthly follow-up abdominal ultrasound scans. CA19-9 was normal.

At 10 years after initial PPC detection, the patient, who had not consumed alcohol for years, presented with gastric outlet obstruction and cyst size progression (Fig. 1a). Cystogastrostomy was performed using a lumen-apposing self-expandable metal stent (LASEMS), which led to release of clear fluid. Abdominal ultrasound and endoscopy 4 weeks later showed cyst regression (Fig. 1b), and the LASEMS was therefore removed. However, 5 months later, the patient became symptomatic with abdominal pain, fever, and a rise in C-reactive protein and CA19-9 (85U/mL). Ultrasound indicated cyst infection (Fig. 1c). Cystoduodenostomy using an LASEMS revealed a putrid cyst content. Subsequently, the cyst lumen was inspected through the LASEMS (Video1), revealing an irregular cyst surface and branch duct involvement.

▶ Fig. 1 Abdominal ultrasound. a Large cystic structure in the pancreatic head. b At 4 weeks after drainage, only a small cyst residue was detected. c Signs of cyst infection 5 months later.

▶ Fig. 2 Abdominal ultrasound. a Large cystic structure in the pancreatic head. b At 4 weeks after drainage, only a small cyst residue was detected. c Signs of cyst infection 5 months later.

▶ Fig. 2 Irregular internal surface of the cystic structure.

▶ Fig. 3 Hematoxylin and eosin staining (× 50), demonstrating intraductal papillary mucinous neoplasm with focal progression to invasive carcinoma.
ment (▶ Fig. 2). Histopathological analysis of biopsies from the cyst wall showed an intraductal papillary mucinous neoplasm (IPMN), with focal progression to invasive carcinoma, which was confirmed after Whipple resection (pT1pN0M0; ▶ Fig. 3). Postoperative surveillance for 1 year showed no signs of disease recurrence. PPCs can be difficult to distinguish from IPMN, particularly in cases of unilocular cysts and history of pancreatitis [1–3]. Here, we report a case of branch duct IPMN mimicking a PPC, in which drainage by an LA-SEMS and endoscopic inspection revealed pancreatic adenocarcinoma. This case highlights potential benefits of drainage of pancreatic fluid collections by LA-SEMS, which facilitates direct cyst endoscopy and can assist in the detection of malignancy. Moreover, these data lend support to a low threshold of endoscopic cyst inspection after LA-SEMS-based drainage of pancreatic fluid collections.

Competing interests

None

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