Acute pancreatitis evoked by small-cell lung carcinoma metastases and detected by endoscopic ultrasound

Small-cell lung cancer (SCLC) is an aggressive disease that has a poor prognosis and tends to metastasize early [1]. The most frequent intra-abdominal sites of SCLC metastases include the adrenal glands and liver [2]. The pancreas is a rare site of SCLC metastasis. We report a case of acute pancreatitis triggered by SCLC metastasis in the pancreas.

A 52-year-old woman with SCLC presented with vomiting and epigastric pain radiating to her back. Blood tests revealed increased alkaline phosphatase (ALP, 4.3 µkat/L), gamma-glutamyl transferase (GT, 4.7 µkat/L), and amylase (5.2 µkat/L), while bilirubin was normal. The patient had acute pancreatitis but no history of gallstone disease or excessive alcohol intake. A subsequent work-up with transabdominal ultrasound showed no signs of disease in the liver, gallbladder, or pancreas, but a magnetic resonance cholangiopancreatography revealed dilatation of the extrahepatic bile duct (9.5 mm) and three unclear lesions in the pancreas, which raised suspicions of malignancy and led to a referral for endoscopic ultrasound (EUS).

EUS demonstrated three hypoechoic processes (two in the head and one in the body of the pancreas) with regular borders (Fig. 1). The two processes (22 and 32 mm) in the pancreatic head were compressing the pancreatic duct causing proximal dilatation of the duct (4.5 mm). Fine-needle aspiration (21-gauge needle) of one of the processes in the head of the pancreas followed by cytological examination revealed small-cell carcinoma cells (Fig. 2a) staining positively for thyroid transcription factor-1 (Fig. 2b), which is a highly specific marker for primary lung adenocarcinomas.

The patient received a plastic biliary stent due to progressive cholestasis and continued abdominal pain. After recovery, the patient received palliative chemotherapy. In conclusion, we report an unusual case in which acute pancreatitis was induced by SCLC metastases. We point the focus on using EUS in the work-up of patients with acute pancreatitis of unknown aetiology.
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