A rare etiology of idiopathic recurrent acute pancreatitis

A 30-year-old Indian woman was referred with recurrent episodes of acute pancreatitis; she had experienced four episodes in the previous 7 months. There was no history of alcohol or drug intake. She was diagnosed with idiopathic recurrent acute pancreatitis (IRAP), as results of blood investigations, ultrasonography, computed tomography (abdomen), and magnetic resonance cholangiopancreatography were normal. Linear endoscopic ultrasound (EUS) was performed to diagnose the etiology of IRAP. Linear EUS from the duodenal bulb showed a round echogenic shadow in the head of the pancreas (Fig. 1a). It also revealed a linear echogenic mobile structure without acoustic shadow in the common bile duct (CBD) (Fig. 1b). The linear echogenic mobile shadow was coiling in the CBD (Fig. 1c). The linear structure had two hyperechoic linear strips on either side of the longitudinal anechoic lumen, representing the fluid-filled digestive tract of the worm (“double tube sign” or “inner tube sign”). RRA, right renal artery.

▶ Video 1: Linear endoscopic ultrasound from the duodenal bulb showed a linear echogenic mobile structure without acoustic shadow coiling in the common bile duct, with two hyperechoic linear strips on either side of the longitudinal anechoic lumen. On side-viewing endoscopy, one creamy-white worm was visualized outside the papilla; it was removed using biopsy forceps and identified as Ascaris lumbricoides.
Ascaris lumbricoides infestation is endemic in tropical countries. Although most infections by roundworms are asymptomatic, they can produce diverse manifestations, including hepatobiliary and pancreatic complications [1]. Ascaris is a common etiology of acute pancreatitis in developing countries. The mechanism of ascariasis-induced acute pancreatitis includes obstruction of the ampulla of Vater, and invasion of the CBD or pancreatic duct [2]. Endoscopic intervention is the treatment of choice. Worms visible at the papilla are removed endoscopically using a basket or forceps [3]. To conclude, biliary ascariasis should be considered in the differential diagnosis of IRAP, particularly in endemic regions.

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Competing interests

None

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