Endoscopic ultrasound imaging of pancreatic duct ascariasis

Ascaris lumbricoides infestation is endemic in tropical countries. Most infections by A. lumbricoides are asymptomatic, but they can produce a wide spectrum of manifestations including hepatobiliary and pancreatic complications. Pancreatic ascariasis is a rare entity. In a study of 500 patients with hepatobiliary and pancreatic disease due to A. lumbricoides infection, only seven had pancreatic ascariasis [1], and there are few case reports of ascariasis-induced acute pancreatitis [2].

Mechanisms of acute pancreatitis associated with ascariasis include invasion of the pancreatic duct, the ampullary orifice, and both the common bile duct and the pancreatic duct [3].

Idiopathic pancreatitis is diagnosed when clinical, laboratory, and conventional radiologic methods do not provide a clear etiology for the episode. In the past, endoscopic retrograde cholangiopancreatography (ERCP) has been the imaging test of choice for evaluation of idiopathic recurrent acute pancreatitis, whereas now endoscopic ultrasonography (EUS) and magnetic resonance cholangiopancrea-
ography (MRCP) are advocated as safer options [4]. However, EUS should be considered as the first investigation for evaluation of idiopathic pancreatitis [5]. A 30-year-old man presented with idiopathic recurrent acute pancreatitis that had been occurring in the previous 8 months. Abdominal ultrasonography showed a bulky pancreas and MRCP findings were normal. Linear EUS was performed for evaluation of idiopathic recurrent acute pancreatitis. The pancreas was enlarged and hypoechoic, suggestive of acute pancreatitis. EUS revealed linear, nonshadowing, echogenic strips in a dilated pancreatic duct (Fig. 1a, Fig. 1b and Video 1). An ascariis worm was seen as a linear shadow with two hyperchoic linear echogenic strips on either side of the longitudinal anechoic lumen (Fig. 1c). Side-viewing endoscopy showed two worms in the duodenal lumen with one extruding from the papilla. The worms were removed with a biopsy forceps (Fig. 2). They were 29 cm and 22 cm in length (Fig. 3) and identified as *A. lumbricoides*. The patient underwent deworming with albendazole and was followed up for 6 months with no further episodes of acute pancreatitis.

To conclude, pancreatic ascariasis should be considered as a possible cause of idiopathic pancreatitis.

Endoscopy_UCTN_Code_CCL_1AF_2AF_3AZ

**Competing interests:** None

**Piyush Somani**¹, **Malay Sharma**¹, **Amit Pathak**¹, **Amol Patil**¹, **Avinash Kumar**¹, **Srijaya Sreesh**²

¹ Department of Gastroenterology, Jaswant Rai Speciality Hospital, Meerut, Uttar Pradesh, India
² Department of Gastroenterology, Government Medical College, Trivandrum, Kerala, India

**References**


**Bibliography**

DOI [http://dx.doi.org/](http://dx.doi.org/) 10.1055/s-0041-111030

Endoscopy 2016; 48: E33–E34

© Georg Thieme Verlag KG Stuttgart · New York

**Corresponding author**

Piyush Somani, MD, DM
Department of Gastroenterology
Jaswant Rai Speciality Hospital, Saket
Meerut, 250 001, Uttar Pradesh
India
Fax: +91-121-2657154
dr_piyushsomani@yahoo.co.in