

Biliary ascariasis as etiology of recurrent abdominal pain

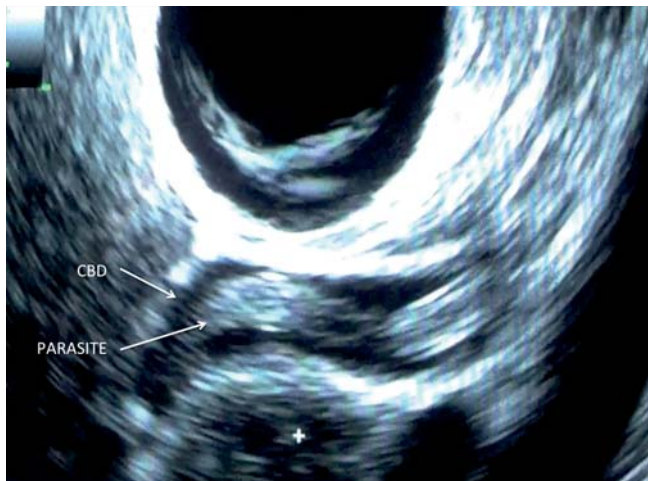


Fig. 1 Endosonographic view of *Ascaris lumbricoides* parasite inside the common bile duct (CBD).

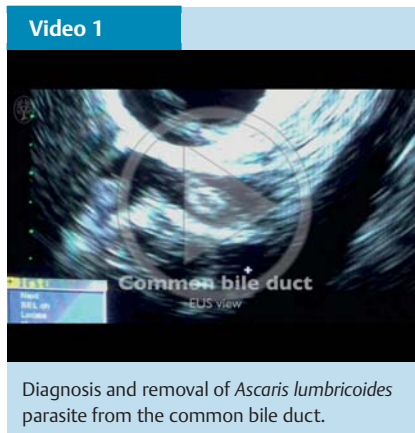


Fig. 2 Endoscopic view of *Ascaris lumbricoides* exiting from the major duodenal papilla.

A 37-year-old woman had a history of cholelithiasis and choledocholithiasis in 2007, and cholecystectomy and endoscopic retrograde cholangiopancreatography (ERCP) with sphincterotomy had been performed.

She was admitted to our unit with a 10-day history of upper abdominal pain that radiated into the back. She reported no weight loss, no fever, and no change in bowel habit. On questioning, the patient reported that she had travelled to Peru 6 months previously, and had probably ingested contaminated water. Laboratory tests showed minimal elevation of serum amylase, and normal findings for lipase, hepatic function, complete blood count, electrolyte levels, and blood chemistry. Abdominal ultrasound revealed hepatic steatosis.

Mild pain persisted despite treatment with antispasmodics. After 5 days, upper gastrointestinal endoscopy was per-



formed and showed antral chronic gastritis. Endosonography showed normal large blood vessels. The uncinata process, head, isthmus, body, and tail of the pancreas showed normal appearances, as did the size and shape of the papilla and pancreatic duct. The common bile duct was dilated to 9 mm, and a tubular entity about 4 mm in diameter was extending through it, from the duodenal lumen to the intrahepatic bile duct. Tubular structures that moved independently were observed (▶ **Fig. 1**). Because the endoscopic appearance was suspicious for parasitic infestation, we exchanged the echoendoscope for a duodenoscope, confirmed the diagnosis (▶ **Fig. 2**), and extracted the specimen completely using a Talon grasping device (US Endoscopy, Mentor, Ohio, USA), observing a parasite of 20 cm in length (▶ **Video 1**).

Microbiological study confirmed *Ascaris lumbricoides*. After extraction of the parasite, the patient reported no abdomi-

nal pain. A single dose of albendazole (400 mg) was administered [1] and the patient was discharged.

Ascaris lumbricoides is an intestinal nematode (roundworm), producing a globally distributed helminthic infection. The majority of infections occur in the developing countries of Asia and Latin America [2]. The symptoms and complications of infection can be pulmonary and hypersensitivity manifestations [3], intestinal symptoms and obstruction [4], and hepatobiliary and pancreatic [5].

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Competing interests: None

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