Biliary ascariasis is a common problem in tropical countries. Diagnosis requires a high index of suspicion in patients from an area where the condition is endemic and who present with obstructive jaundice. Abdominal ultrasonography, which is the first modality for evaluation of such patients, can allow biliary ascariasis to be diagnosed in 85% of cases. The characteristic sonographic features of worms in the common bile duct (CBD) are multiple, long, linear, parallel echogenic strips, usually without acoustic shadowing [1]. Computed tomography and magnetic resonance imaging (MRI) show "bull's-eye" and "eye-glass" appearances of Ascaris in the CBD [2]. Endoscopic retrograde cholangiopancreatography (ERCP), considered the gold standard for diagnosis of biliary ascariasis, should be reserved for therapeutic rather than diagnostic use as papillotomy can lead to reentry of the worm into the CBD [3]. Endoscopic ultrasonography (EUS) is now considered the most sensitive method for evaluation of a dilated CBD [4] and has been reported to demonstrate the presence of biliary ascariasis in one case [5].

A 25-year-old lady presented with complaints of abdominal pain and fever. Laboratory investigations revealed the following: total leukocyte count 14 800/μL, alanine transaminase 308 U/L, aspartate transaminase 356 U/L, serum alkaline phosphatase 584 U/L, and serum bilirubin 3.1 mg/dL. Abdominal ultrasonography revealed a dilated CBD with ill-defined echogenic shadows. EUS was considered before ERCP to evaluate the echogenic shadows, and was performed using a linear echoendoscope (3830 UT; Pentax Corp., Tokyo, Japan). It revealed a longitudinal hyperechoic shadow 4 cm in length, coiling once in the CBD, confirming the diagnosis of biliary ascariasis. This longitudinal shadow had two classical hyperechoic linear echogenic strips on either side of the longitudinal anechoic lumen of the ascaris (Figs. 1, 2). The diameter of the bile duct and the shadow were measured at 8 mm and 3 mm respectively (Fig. 3). ERCP was performed to remove the worm from the bile duct.

The demonstration of characteristic findings shows that EUS should be routinely used before ERCP in cases of dilated CBD to diagnose biliary ascariasis in areas where this condition is endemic.

M. Sharma, S. Garg
Jaswant Rai Speciality Hospital, Saket, Meerut-250 001, Uttar Pradesh, India
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Corresponding author
M. Sharma, MD, DM
Jaswant Rai Speciality Hospital
Saket
Meerut-250 001
Uttar Pradesh
India
sharmamalay@hotmail.com