Hepatolithiasis or intrahepatic duct calculi is one of the most complex stone diseases as it poses a great challenge in treatment and also has strong propensity for recurrence. It may be complicated by bile duct strictures, cholangiolytic abscesses, and cholangiocarcinoma [1]. The main endpoint of the treatment for hepatolithiasis would be stone clearance, stricture correction, and restoration of biliary drainage [2].

A 27-year-old woman was referred to our department for right upper quadrant pain of the abdomen and fever for 3 days. Patient was hemodynamically stable. Her blood investigations were unremarkable except for elevated liver enzymes (AST 69 IU/L, ALT 71 IU/L, and ALP 354 IU/L). Magnetic resonance cholangiopancreatography showed one calculus measuring 6 mm in the right anterior sectoral duct with upstream biliary dilatation and another small calculus in the distal bile duct (▶ Fig. 1).

Endoscopic retrograde cholangiopancreatography (ERCP) revealed a filling defect in the lower end of the bile duct and in the right hepatic duct. The sludge material came out after biliary sphincterotomy. A cholangioscope (SpyGlass DS;
Boston Scientific, Natick, Massachusetts, USA) was inserted into the bile duct (▶ Video 1) and a stone was seen in one of the branches of the hepatic duct (▶ Fig. 2a). The stone was captured using the SpyGlass retrieval basket (Boston Scientific) after negotiating the guide-wire (▶ Fig. 2b). Finally, the stone was removed from the bile duct under direct visualization by cholangioscope (▶ Fig. 2c).

There are only few cases of bile duct stone extraction using this retrieval basket reported in the literature [3]. Extraction of hepatic duct stones using a retrieval basket is quite challenging and reports of such cases are scarce.

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Competing interests

The authors declare that they have no conflict of interest.

The authors

Mahesh Kumar Goenka1, Shivaraj Afzalpurkar2, Gajanan Ashokrao Rodge3, Usha Goenka4
1 Apollo Multispeciality Hospital, Institute of Gastrosciences and Liver, Kolkata, India
2 Apollo Multispeciality Hospital, Department of Clinical Imaging and Interventional Radiology, Kolkata, India

Corresponding author

Mahesh Kumar Goenka, MD
Institute of Gastrosciences and Liver, Day care, 4th floor, Apollo Hospital, 58 Canal Circular Road, Kolkata, 700054, India
mkgkolkata@gmail.com

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