Endoscopic salvage extraction of a fish bone impacted in a liver abscess by extra-anatomic cholangioscopy

Fish bones can migrate through the digestive tract to the liver parenchyma [1]. The endoscopic alternatives in these cases are limited and a surgical approach is often required [2].

An 83-year-old man presented to the emergency department with a fever of unknown origin for 2 weeks and jaundice. Computed tomography scan showed a 9-cm liver abscess related to an impacted fish bone protruding from the first duodenum. The common bile duct was also compressed by the abscess. Antibiotics were initiated and upper gastrointestinal (GI) endoscopy combined with endoscopic retrograde cholangiopancreatography (ERCP) was decided.

First, a 10-French biliary plastic stent was placed by standard ERCP. Afterwards, a duodenal perforation was detected in the duodenal bulb using a 3.7-mm gastroscope (Fig. 1). The enterohepatic fistula was cannulated with a sphincterotome (Truetome; Boston Scientific, Marlborough, Massachusetts, USA) and two custom-made 7-French single pigtail plastic stents (12 and 15 cm) were placed in the liver abscess (Fig. 2). The aim of this procedure was to drain the abscess while dilating the fistula before foreign body removal.

In a second procedure 72 h later, the stents were removed and a dual-operator mother-baby cholangioscopy (Spyglass DS2, Boston Scientific) was performed. The wire-guided cholangioscope was passed through the enterohepatic fistula to the liver abscess without previous dilation (Video 1). The abscess was examined in the supine and left lateral decubitus positions for better access to the whole cavity. The underwater technique was used. Finally, the impacted 40-mm fish bone was located with both ends penetrating in the abscess wall (Fig. 3). It was pushed away with the cholangioscope and removed using a Spybite MAX (Boston Scientific) from the distal end. The patient was doing well 1 month later.

To our knowledge, this is the first case report using extra-anatomic cholangioscopy for a fish bone [3]. This technique could represent an alternative to surgery in selected cases.

Competing interests

Enrique Pérez-Cuadrado-Robles holds a consultancy agreement with Boston Scientific. The remaining authors not have conflict of interest related to this manuscript.
The authors

Enrique Pérez-Cuadrado-Robles1,2, Bernard El Khoury1, Guillaume Perrod1, Hadrien Alric1,2, Gabrielle Martin1, Christophe Cellier1,2, Gabrielle Rahmi1,2
1 Department of Gastroenterology, Georges-Pompidou European Hospital, APHP.Centre, Paris, France
2 University of Paris, France

Corresponding author

Enrique Pérez-Cuadrado-Robles, MD
Department of Gastroenterology, Georges-Pompidou European Hospital, 20 Rue Leblanc, 75015 Paris, France
Enrique.perez.cr@gmail.com

References


Bibliography

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Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

Video 1 Cholangioscopy-assisted endoscopic extraction of a fish bone in a liver abscess through an enterohepatic fistula.