An 88-year-old woman with a history of open cholecystectomy for symptomatic gallstones 12 years previously was admitted due to colicky right upper quadrant pain and obstructive jaundice. Abdominal ultrasonography showed extrahepatic bile duct dilatation (12 mm) and choledocholithiasis in the distal common bile duct (CBD). At endoscopic retrograde cholangiopancreatography (ERCP) before contrast injection, she was noted to have a mobile, metal foreign body inside the distal CBD (Fig. 1a, b), in addition to the cholecystectomy clip at the cystic duct. Cholangiogram revealed that this foreign body was located in the center of a 10-mm oval-shaped defect suggestive of choledocholithiasis (Fig. 1c). A sphincterotomy was performed, after which removal of a black calculus was achieved with a retrieval balloon, and a subsequent repeat cholangiogram was normal. On further examination, the calculus was found to have a metallic protuberance (Fig. 2). A plain radiograph of the calculus showed this to be the end of an embedded metal surgical clip (Fig. 3).

The migration of a surgical cystic-duct clip into the CBD leading to stone formation was first described in 1978 and to date 80 cases have been reported [1]. Therefore, it remains a rarity in spite of the increasing number of laparoscopic cholecystectomies that are performed annually. Migration typically occurs at a median of 2 years post-cholecystectomy, albeit it has been described as much as 30 years after surgery [1, 2]. The process of migration is likely to be influenced by inaccurate surgical clip placement, especially with short and/or wide cystic ducts [3], which results in bile duct injury, suppurative inflammation, and erosion of the clip through the bile duct into the lumen. Afterwards, the clip acts as the nidus for further calculus formation.

ERCP with sphincterotomy is the treatment of choice, although extraction using a balloon dilator and a rat-tooth forceps, in order to avoid papillotomy complications, has been recently reported [2].

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References


Bibliography

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Corresponding author

J. Molina-Infante, MD
Unit of Gastroenterology
Hospital San Pedro de Alcantara
C/ Pablo Naranjo s/n
10003 Caceres
Spain
Fax: +34-927-621545
xavi_molina@hotmail.com