Laparoscopic cholecystectomy is now an established treatment for cholecystolithiasis or acute cholecystitis [1–3], but adverse events such as endoclip migration into the biliary tract may occur [4]. Usually, migrated endoclips can be removed by standard bile duct stone removal techniques. However, if endoclips have migrated into the intrahepatic bile duct, removal of the endoclip is sometimes challenging. In addition, bile duct injury may occur during removal [5]. Herein, we describe technical tips for the safe removal of a migrated endoclip under direct digital single-operator cholangioscopy guidance.

A 56-year-old man who had undergone cholecystectomy without any adverse events 1 month previously was found during a follow-up computed tomography (CT) scan to have a common bile duct stone. He was therefore admitted for removal of this stone. Endoscopic retrograde cholangiopancreatography (ERCP) was attempted; however, it was observed that there had been endoclip migration into the intrahepatic bile duct (Fig. 1a). Unsuccessful attempts were made to remove the endoclip using standard techniques, such as a balloon or a basket catheter, and he was therefore admitted to our hospital for removal of the migrated endoclip under direct visualization with cholangioscopy.

First, an intraductal cholangioscope (SPY-DS; Boston Scientific, Natick, Massachusetts, USA) was inserted into the common bile duct (Fig. 1b) and the migrated endoclip was clearly observed (Fig. 2a). This migrated clip was grasped by a SPY-Bite device (Fig. 2b) and successfully removed into the duodenum without any adverse events (Fig. 2c; Video 1). Following this, the SPY-Bite was exchanged for a large...
grasping forceps and the clip was extracted.
Our technique for removal of a migrated endoclip proved to be safe in this patient. Direct visualization with the intraductal cholangioscope was helpful in this case because of the four-way bending of the device.

Endoscopy_UCTN_Code_TTT_1AR_2AK

Competing interests
None

Video 1 A migrated endoclip is identified in the left intrahepatic bile duct on intraductal cholangioscopy. The SPY-Bite device is used to grasp the endoclip and successfully remove it to the duodenum.

References


The authors
Takeshi Ogura, Atsushi Okuda, Akira Miyano, Nobu Nishioka, Kazuhide Higuchi
2nd Department of Internal Medicine, Osaka Medical College, Osaka, Japan

Corresponding author
Takeshi Ogura, MD
2nd Department of Internal Medicine, Osaka Medical College, 2-7 Daigakuchou, Takatsukishi, Osaka 569-8686, Japan
Fax: +81-726-846532
oguratakeshi0411@yahoo.co.jp

DOI https://doi.org/10.1055/s-0043-124758
Published online: 12.1.2018
Endoscopy 2018; 50: E74–E75
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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