A novel technique of migrated biliary stent retrieval

A 28-year-old man presented for stent removal one year after endoscopic retrograde cholangiogram and biliary stenting for anastomotic stricture after living-donor liver transplantation. On duodenoscopy, two biliary stents were visible at the papilla, and retrieval was attempted with the aid of a snare. However, only one stent could be removed completely and the second biliary stent broke off and migrated proximally.

Subsequently, a guidewire was passed parallel to the migrated stent. Then a stone extraction balloon was passed over the guidewire in an attempt to retrieve the migrated stent by applying traction via the over-inflated balloon (Fig. 1). We could see the broken stent across the papilla upon traction. However, we could not exchange the balloon in the duodenoscope because the stent repeatedly migrated inwards once we deflated the balloon and attempted to exchange it for a snare.

In this scenario, we considered a double-channel therapeutic scope (GIF-2TH180 EVIS EXERA II gastroduoscope; Olympus, Tokyo, Japan) to retrieve the stent while simultaneously applying traction. To support insertion of the therapeutic scope, we initially placed a 5-Fr guide catheter (Boston Scientific, Marlborough, Massachusetts, USA) over the guidewire and the duodenoscope was exchanged for the therapeutic scope over the guide catheter. Once the therapeutic scope reached the papilla, the guide catheter was exchanged for a stone extraction balloon through one channel of the therapeutic scope and a snare loaded into the second channel. Then, by applying traction with the inflated balloon, the stent came across the papilla and the lower end of the stent was caught with the snare and successfully retrieved (Video 1, Fig. 2).

Various techniques have been described for retrieval of a migrated stent using forceps, a basket, snare, Soehendra stent retriever, cholangioscope, and balloon [1–4]. To the best of our knowledge, this is the first case that highlights the use of a therapeutic scope in stent retrieval.

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Competing interests

The authors declare that they have no conflict of interest.
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