Successful endoscopic extraction of a double uncovered expandable metal stent

Extraction of covered metal stents has been previously described [1–5]. We report the case of a young patient in whom we removed two uncovered Wallstents that had been placed in the left and right liver lobes because of an unresectable Klatskin tumor 6 years earlier.

The 36-year-old woman presented with icterus and gallbladder stones in 2002. Extensive work-up including CT, MRI, endoscopic ultrasonography, positron emission tomography, and laparotomy with histological study of the lesion concluded in the diagnosis of a Klatskin tumor invading the inferior vena cava with metastases in the liver. The patient underwent palliative treatment with placement of two Wallstents and gemcitabine chemotherapy for 1 year.

In 2007 she presented with recurrent cholangitis and obstruction of both stents (Fig. 1), which necessitated several sessions of endoscopic retrograde cholangiography to extract stones (Fig. 2). Surprisingly, biliary brush specimens lacked any signs of malignancy and therefore put in question the diagnosis of malignancy in favor of one of inflammatory pseudotumor.

After consideration of total surgical common bile duct and stent excision as opposed to endoscopic retrieval, we decided for an endoscopic approach. Extraction was performed in two sessions (taking 1.5 hours and 2 hours respectively). The chosen approach was a wire-by-wire extraction after an unsuccessful attempt to grasp the stents in a snare. Multiple devices were used: endoscopic rat-tooth and crocodile forceps (Fig. 3), snares, and several Dormia baskets, the most useful being the rat-tooth forceps. Prior to the extraction of the second Wallstent, which was completely embedded in the bile ducts, a covered Wallstent was inserted into the preexisting uncovered stent to decrease intraluminal endothelial hyperplasia (Fig. 4). The covered stent was easily retrieved with a monofilament mucosectomy snare, and wire-by-wire extraction of the last stent was then successful (Fig. 5). No complications were reported, and control MRI at 6-month follow-up showed good clearance of the bile duct with no intrahepatic strictures (Fig. 6).

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