Endoscopic removal of a migrated and long-indwelling self-expandable metal stent

The removal of a biliary uncovered self-expandable metal stent (uSEMS) is difficult or even impossible when the stent has been indwelling for longer than a couple of weeks because of tissue ingrowth [1,2]. A malfunctioning uSEMS may be removed with forceps, a snare, the invagination technique [3], or the stent-in-stent technique [2,4]. We report the removal of a migrated uSEMS, placed in a patient’s bile duct 10 years earlier for a biliary stricture that had developed after bile duct lithotomy.

A 30-year-old man presented with abdominal pain and jaundice in 1984. Abdominal ultrasound revealed a large stone in the common bile duct (CBD). The patient underwent bile duct lithotomy and T-tube drainage. Approximately 18 years later, the patient was readmitted with a stenosis of the CBD, and a nitinol uSEMS (Micro-Tech, Nanjing, China) was placed. In 2012, the patient presented with abdominal pain and melena. His abdomen was soft. A slight tenderness of the upper quadrant with no rebound tenderness was noted. The complete blood cell count and blood chemistry were normal. Abdominal computed tomography revealed that the uSEMS had penetrated the duodenum (Fig. 1).

Because the total bilirubin and liver enzymes were normal, we thought that the epithelial hyperplasia might not be diffuse or severe and that the stent might be removed with a snare [1]. The uSEMS protruded into the duodenal lumen and impacted the contralateral duodenal wall (Fig. 2). We therefore first removed the exposed wire ends of the stent with biopsy forceps; clockwise torsion and a back-and-forth movement were then applied. Finally, the uSEMS was successfully removed with a snare (Figs. 3–5).

Thus far, the patient remains well. Additionally, there is no evidence of malignancy or a need for biliary stenting.

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DOI http://dx.doi.org/10.1055/s-0034-1392207

Endoscopy 2015; 47: E299 – E300

© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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