Stent-in-stent technique and endoscopic resection of granulation tissue to remove a migrated metal duodenal stent embedded in the colon

Self-expandable metal stents (SEMSs) can be used to treat malignant gastroduodenal obstructions. In such cases, the incidence of stent migration is 5% and, if it occurs, surgery may be required [1]. We report a case with a migrated duodenal SEMS that had become embedded in the wall of the ascending colon.

A patient with gastric adenocarcinoma at the antrum that had invaded the pancreaticoduodenum received an uncovered SEMS (120-mm length, 20-mm diameter; S&G Medical, Seoul, Korea). He attended the emergency room 11 days later because of abdominal pain. Computed tomography (CT) showed the stent had migrated into the ascending colon, but there was no evidence of colonic perforation. Colonoscopy revealed that the stent was tightly embedded in the wall of the colon, with inflammatory changes present in the mucosa (Fig. 1a). So that the stent could be separated from the colonic wall, a fully-covered stent (120-mm length, 24-mm diameter; S&G Medical) was inserted using the stent-in-stent technique (Fig. 1b, c).

Repeat colonoscopy 19 days later showed the stents remained attached to the colon only by peduncles of granulation tissue (Fig. 2a). The peduncles were cut using the tip of a snare and Endocut Q mode (ef-
fect 3, cut duration 2 seconds, cut interval 6) of an electrosurgical unit (VIO 300D; ERBE, Tübingen, Germany; Video 1). The stents were gently removed by grasping their distal ends with the snare (Fig. 3). The procedure time from scope insertion to stent removal was 23 minutes. The patient had no immediate or long-term complications.

The stent-in-stent technique has been used previously to remove SEMSs embedded in the esophagus or biliary tract [2–4]. A SEMS embedded in the colon was removed using a dual-channel endoscope and two rat-tooth forceps following the stent-in-stent technique [5]. We easily removed this stent that was embedded in the ascending colon using the stent-in-stent technique, which was followed by endoscopic resection of the remaining peduncles of granulation tissue.

Endoscopy_UCTN_Code_TTT_1AQ_2AH

Competing interests: None

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DOI http://dx.doi.org/10.1055/s-0034-1365114
Endoscopy 2014; 46: E159–E160
© Georg Thieme Verlag KG Stuttgart · New York
ISSN 0013-726X

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Video 1

A metal duodenal stent, which had migrated and become embedded in the ascending colon, is successfully removed using the stent-in-stent technique and subsequent endoscopic resection of the granulation tissues.