Endoscopic trimming of a migrated gastro-duodenal stent using a loop cutter and a two-channel endoscope

A 69-year-old man with gastric cancer was admitted to our hospital because of vomiting. Two gastroduodenal stents (Niti-S D pyloric/duodenal stent; TaeWoong Medical Inc., Seoul, South Korea) had previously been inserted from the first portion of the duodenum to the body of the stomach because of antral obstruction. Esophagogastroduodenoscopy revealed migration of the proximal stent (Fig. 1). The stent required trimming to resolve the symptoms.

Endoscopic view of migrated gastroduodenal stent.

Fig. 1 Endoscopic view of migrated gastroduodenal stent.

A loop cutter FS-5L-1 (Olympus Medical Systems Corp., Tokyo, Japan) was used to trim the stent (Fig. 2). The GIF-2T240 (Olympus) two-channel endoscope was used for the procedure. The wire was easily cut by the loop cutter device when a single wire was grasped precisely. If the wire became stuck in the groove of the scissors, another loop cutter was inserted through the opposite working channel to cut the stuck wire (Video 1).

Fig. 2 Loop cutter FS-5L-1 device (Olympus Medical Systems Corp., Tokyo, Japan).

There are several reports describing the trimming of biliary metal stents, but reports of enteral stent trimming are limited [1–3]. Argon plasma coagulation (APC) is frequently reported as a stent trimming device, whereas reports on the use of the loop cutter are limited [4, 5]. The major problem associated with the use of APC is mucosal damage, especially when the stent wire is embedded into the tumor. The major problem with the loop cutter is that the wire sometimes becomes stuck in the groove of the scissors. To overcome this problem, a two-channel endoscope is used and another loop cutter is inserted to cut the stuck wire if needed. Therefore, trimming the Niti-S D pyloric/duodenal stent using a loop cutter and two-channel endoscope is safe and useful.

Endoscopic view of gastroduodenal stent after trimming.

Fig. 3 Endoscopic view of gastroduodenal stent after trimming.

Endoscopic view of gastroduodenal stent after trimming.

Fig. 4 The trimmed gastroduodenal stent.

Video 1

A Niti-S D pyloric/duodenal stent (TaeWoong Medical Inc., Seoul, South Korea) was trimmed using a loop cutter. When the wire became stuck in the groove of the scissors, another loop cutter was inserted through the opposite working channel to cut the stuck wire.

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Competing interests: None

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