How to modify the axis of a self-expandable metal stent to avoid malfunction in gastric outlet obstruction: a simple trick

Malignant gastric outlet obstruction (GOO) is caused mainly by gastric or pancreaticobiliary neoplasms. GOO presents with uncomfortable symptoms, such as nausea, vomiting, and abdominal distension, leading to malnutrition and impaired quality of life [1, 2]. Endoscopic placement of a self-expandable metal stent (SEMS) is widely accepted as nonsurgical palliative treatment of non-resectable malignant GOO [3]. However, the efficacy of the SEMS can be compromised, especially in patients affected by gastric antral neoplasia, in which GOO relief is not completely obtained. One of the reasons why gastric SEMS can be ineffective is possibly due to the impact of the proximal end of the stent at the great curvature of the gastric body (▶ Fig. 1a).

Four patients who were unfit for surgery underwent SEMS placement for malignant GOO (three women: 25, 52, and 56 years old; and one 57-year-old man). With a standard clip we caught the proximal end of the stent, closing the clip inside the mesh of the body of the SEMS (▶ Video 1). This trick modifies the proximal axis of the stent (▶ Fig. 1b), restoring the normal anatomy of the stomach (▶ Fig. 2).

This treatment aims to avoid malfunction of the SEMS by using the clip to modify the axis of the stent and restore the normal anatomy of the stomach.

Competing interests

None

The authors

Benedetto Mangiavillano1,2, Francesco Auriemma1, Mario Bianchetti1, Alessandro Repici2,3
1 Gastrointestinal Endoscopy Unit, Humanitas Mater Domini, Castellanza, Italy
2 Humanitas University, Milan, Italy
3 Digestive Endoscopy Unit, Istituto Clinico Humanitas Research Hospital, Milan, Italy
Corresponding author

Benedetto Mangiavillano, MD
Gastrointestinal Endoscopy Unit, Humanitas – Mater Domini, Via Gerenzano n.2, 21053 Castellanza (VA), Italy
Fax: +39-0331-476210
bennymangiavillano@gmail.com

References


ENDOSCOPY E-VIDEOS
https://eref.thieme.de/e-videos

Endoscopy E-Videos is a free access online section, reporting on interesting cases and new techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at
https://mc.manuscriptcentral.com/e-videos