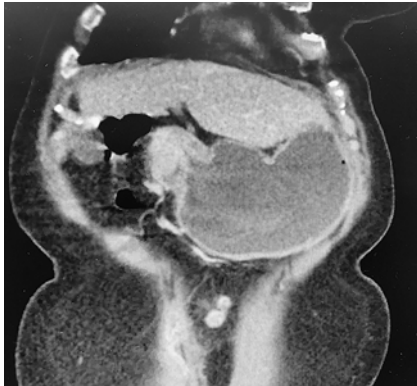
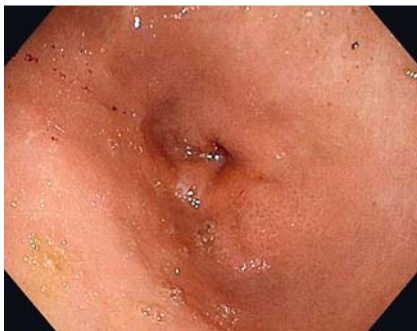


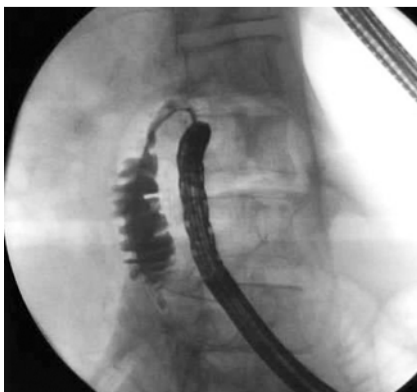
## Placement of a lumen-apposing metal stent for palliation of malignant pyloric stenosis



► **Fig. 1** Computed tomography scan showing nodular wall thickening of the gastric antrum/first part of the duodenum consistent with serosal metastatic disease causing gastric outlet obstruction.



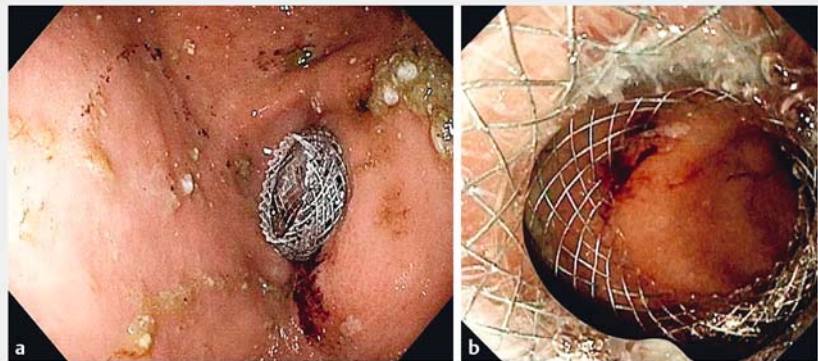
► **Fig. 2** Endoscopic view showing pyloric stenosis.



► **Fig. 3** Fluoroscopy showing a short pyloric stricture.

A 66-year-old woman with metastatic breast cancer and diffuse osseous disease presented with a history of vomiting after meals for 3 weeks. A computed tomography (CT) scan showed nodular wall thickening of the gastric antrum/first part of the duodenum, which was suspicious for serosal metastatic disease causing gastric outlet obstruction (► **Fig. 1**). An upper gastrointestinal endoscopy was performed for evaluation. A pyloric stricture was visualized (► **Fig. 2**). The stand-

ard adult gastroscop could not traverse the lesion; however, a pediatric gastroscop was able to traverse the lesion and showed a short (<1 cm) pyloric stricture. The mucosa appeared normal, consistent with the CT findings of serosal disease causing the stricture through extrinsic compression. The stricture was also defined under fluoroscopy, which confirmed the endoscopic findings (► **Fig. 3**).



► **Fig. 4** Endoscopic views showing: **a** the proximal end of the lumen-apposing metal stent; **b** the stent traversing the pyloric stricture.



► **Video 1** Placement of a lumen-apposing metal stent for a malignant pyloric stenosis.

Given the short stricture and possible concerns about migration of a traditional duodenal stent, the decision was made to place a 15×10-mm fully covered lumen-apposing metal stent (LAMS; Axios; Boston Scientific, Natick, Massachusetts, USA). The stent was placed under endoscopic and fluoroscopic guidance (► **Fig. 4**; ► **Video 1**) using a single-channel therapeutic gastroscope and was successfully deployed. The barbell-shaped LAMS was shown to be straddling the stricture well on endoscopic and fluoroscopic views, which will help prevent migration. After placement of the stent, the patient has had no further symptoms of gastric outlet obstruction and was still tolerating a pureed/soft diet at 4-week follow-up.

To our knowledge, this is the first report of the placement of a LAMS for malignant pyloric stenosis. There are 10 cases in the literature reporting the use of LAMS for benign pyloric stenosis caused by ulcer disease, with variable long-term success [1–3]. We have shown in this case that placement of a LAMS is also a therapeutic option for malignant pyloric stenoses in which the stricture is less than 1 cm.

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## Competing interests

None

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