

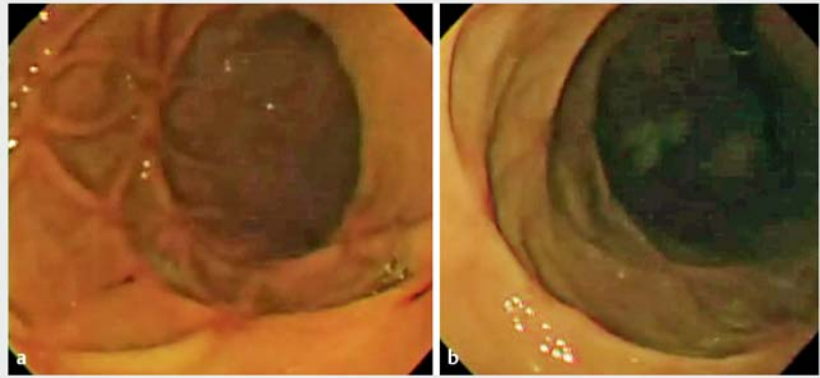
## Endoscopic band ligation for weight loss



► **Fig. 1** Endoscopic view showing the band ligation cap.

To the best of our knowledge, this is the first study to use endoscopic band ligation for weight loss in a 30-year-old woman, who had an initial weight of 85 kg (height 155 cm; body mass index [BMI] 35.4 kg/m<sup>2</sup>). Endoscopy was performed with the patient sedated using propofol. All ligatures were applied in the gastric body, starting at the distal body; five parallel rows were created, with the last one in the proximal body, using 33 bands (► **Fig. 1**). The entire procedure was completed in 30 minutes. Oxygen was used for endoscopic air insufflation. Notably, no immediate complications occurred during endoscopy (► **Video 1**).

The patient did well after the procedure and was discharged after 2 hours. In the first 3 days, she complained of mild nausea, vomiting, and epigastric pain, which were controlled by medications (pantoprazole 40 mg twice daily for the first month, plus antiemetics and antispasmodics on demand). For 2 weeks, she was given a fully liquid diet, followed by an 800-calorie soft diet for another 2 weeks. The patient reported early satiety following the procedure. Follow-up endoscopy after 1 month revealed nice linear scars of healed ulcers in the gastric body



► **Fig. 2** Endoscopic views 1 month after the procedure showing nice linear scars of healed post-band ulcers in the body **a** on forward view; **b** on retroversion.



► **Video 1** Endoscopic band ligation for weight loss, with 33 bands applied in five parallel rows throughout the gastric body, producing well-healed linear scars on follow-up 1 month later.

(► **Fig. 2**), causing marginal narrowing of the lumen. In addition, the patient's weight had decreased from 85 to 79 kg and her BMI from 35.4 to 32.9 kg/m<sup>2</sup>, corresponding to a 7% total weight loss and a 24% excess weight loss after 1 month. Endoscopic band ligation for weight loss is a novel technique that could assist in obesity management. The technique appears safe, repeatable, and cost-effective, with a short learning curve. Never-

theless, further large-scale studies are warranted using more bands, longer caps, and prolonged follow-up to assess the efficacy and safety of the technique as a primary and secondary endoscopic weight loss procedure [1, 2].

Endoscopy\_UCTN\_Code\_TTT\_1AO\_2AN

## Competing interests

The authors declare that they have no conflict of interest.

## The authors

**Mohamed Abeid**<sup>1,2</sup>, **Tarek Kaddah**<sup>2,3</sup>

- 1 Endoscopy Unit, Kasr Al Aini School of Medicine, Cairo University, Cairo, Egypt
- 2 El Katib Hospital, Giza, Egypt
- 3 Anesthesia Department, Kasr Al Aini School of Medicine, Cairo University, Cairo, Egypt

## Corresponding author

**Mohamed Abeid, MD**

GIT Endoscopy Unit, Kasr Al Aini School of Medicine, Cairo University, El Manial, Cairo 12111, Egypt  
mohamedabeid@gmail.com

## References

- [1] Keohane J, Berro W, Harewood GC et al. Band ligation of gastric antral vascular ectasia is a safe and effective endoscopic treatment. *Dig Endosc* 2013; 25: 392–396
- [2] Jirapinyo P, Thompson CC. Endoscopic gastric body plication for the treatment of obesity: technical success and safety of a novel technique. *Gastrointest Endosc* 2020; 6: 1388–1394

## Bibliography

*Endoscopy* 2021; 53: E287–E288

**DOI** 10.1055/a-1264-6360

**ISSN** 0013-726X

**published online** 8.10.2020

© 2020, Thieme. All rights reserved.

Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

## 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>