A nursing-home resident with a percutaneous endoscopic gastrostomy (PEG) feeding tube (Freka CH 15: Fresenius, Bad Homburg, Germany) presented with resistance to flow of food. Mobilization of the tube proved impossible. Endoscopy with the patient under intravenous sedation confirmed the buried bumper syndrome, with the internal bolster being completely buried. Only the lumen of the internal tube remained partially visible (Fig. 1). Attempts at extraction using endoscopic snare or forceps proved unsuccessful.

We cut the external end of the tube at 3 cm from the abdominal wall and inserted a guide wire through the tubular lumen into the stomach. An esophageal balloon dilator was advanced through the endoscope into the stomach and pushed over the guide wire into the tubular lumen. The balloon was inflated to the maximum pressure recommended by the manufacturer until it remained solidly impacted in the PEG tube (Fig. 2). Traction of the endoscope and balloon catheter permitted extraction of the bumper through the stomach. Control endoscopy immediately thereafter showed no visible complication, and a new PEG tube was inserted during the same procedure. The patient’s further course was uneventful.

The buried bumper is a complication of PEG that occurs in 2% to 6.1% of patients [1,2] because excessive external traction leads to erosion of the internal bumper into the gastric wall.

Various internal and external techniques have been described for the removal of buried bumpers:
- grasping with a snare or forceps;
- needle-knife incision of the gastric wall [1];
- dilation of the opening using an externally placed balloon catheter [2];
- push-and-pull “T” technique with a tube fragment grasped in a snare [3];
- extraction using the tapered tip of a new PEG tube [4]; and
- external incision [5].

In some cases, surgical removal has been necessary [1].

Our technique may be added to the arsenal of simple methods for the extraction of a buried bumper before the more risk-prone incision techniques, or even surgery, are employed.

P. Strock, J. Weber
Service d’HépatoGastroEntérologie, Centre Hospitalier, Luxembourg.

References


Corresponding Author

P. Strock, M.D.
Service d’HépatoGastroEntérologie, Centre Hospitalier
4, rue Barbé
1210 Luxembourg
Fax: +352-44-116902
E-mail: strock.paul@ch.lu