Removal of a percutaneous endoscopic gastrostomy (PEG) tube is recommended after patients resume oral intake [1]. There are three main techniques described to remove a PEG tube: 1) external traction at the skin level; 2) the cut and push technique; and 3) retrograde esophageal exteriorization under endoscopic control [1–3]. The choice depends mainly on endoscopist preference and local guidelines. Several risk factors for tube deterioration have been described, such as heat and fungal colonization [3, 4].

We report the case of an 83-year-old woman with a PEG tube inserted 2 years previously for dysphagia in the context of Parkinson’s disease. After PEG placement, the patient did not attend any of the scheduled appointments. After 2 years, the patient’s family contacted our hospital. The patient was scheduled for a hospital visit, but she did not attend it. On the following hospital visit, she presented with dysphagia and worsening of her dysphagia. The endoscopist decided to remove the PEG tube. During the removal, the endoscopist observed an esophageal laceration at the lower esophageal sphincter. The endoscopist performed a retrograde esophageal exteriorization under endoscopic control. The patient was discharged from the hospital with no complications.

**E-Videos**

- **Video 1** Use of laparoscopic scissors inserted through a gastrostomy tract to perform multiple radial incisions in a stony bumper in order to facilitate its collapse when extracting it through the stoma.

**Fig. 1** Endoscopic view of percutaneous endoscopic gastrostomy (PEG) tube removal. 

- **a** The PEG tube in place. 
- **b** Ensnarement of the PEG tube after cutting it externally. 
- **c** Esophageal laceration at the lower esophageal sphincter. 
- **d** Multiple radial incisions in the bumper using a laparoscopic scissor inserted through the gastrostomy tract. 
- **e** Forceps inserted through the stoma in order to pull out the PEG tube.
Department to inform us that the patient had returned to oral intake after a year and the feeding tube was redundant. Initially, we tried to remove the tube endoscopically through the mouth (▶ Video 1) as is standard practice in our department (▶ Fig. 1 a, b). During the procedure, an esophageal laceration occurred at the lower esophageal sphincter owing to stiffness of the bumper (▶ Fig. 1 c). Given the risks associated with attempting to remove the PEG tube through the esophagus, we decided to remove it through the gastrostomy tract.

Given the rigidity of the bumper, we performed multiple radial incisions on the bumper using a laparoscopic scissor inserted through the gastrostomy tract, to facilitate its collapse when extracting it through the stoma (▶ Fig. 1 d, e). At the end of the procedure, we confirmed the PEG tube was rigid, with a marked decrease in its elasticity. Culture of the PEG material showed fungal colonization (hyphae growth). Endoscopists who choose the oral route to remove PEG tubes should be aware that the original properties of the tube can be modified over time, namely its elasticity, which can render the oral route hazardous for removal. This case report demonstrates an alternative route for PEG removal in this setting.

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Competing interests
None

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