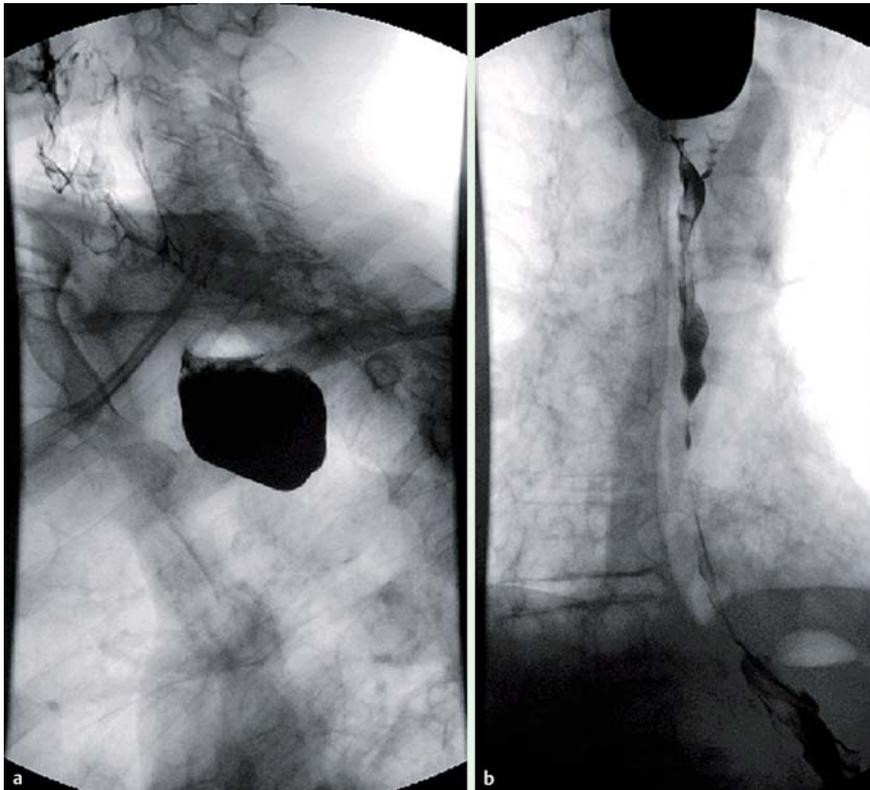


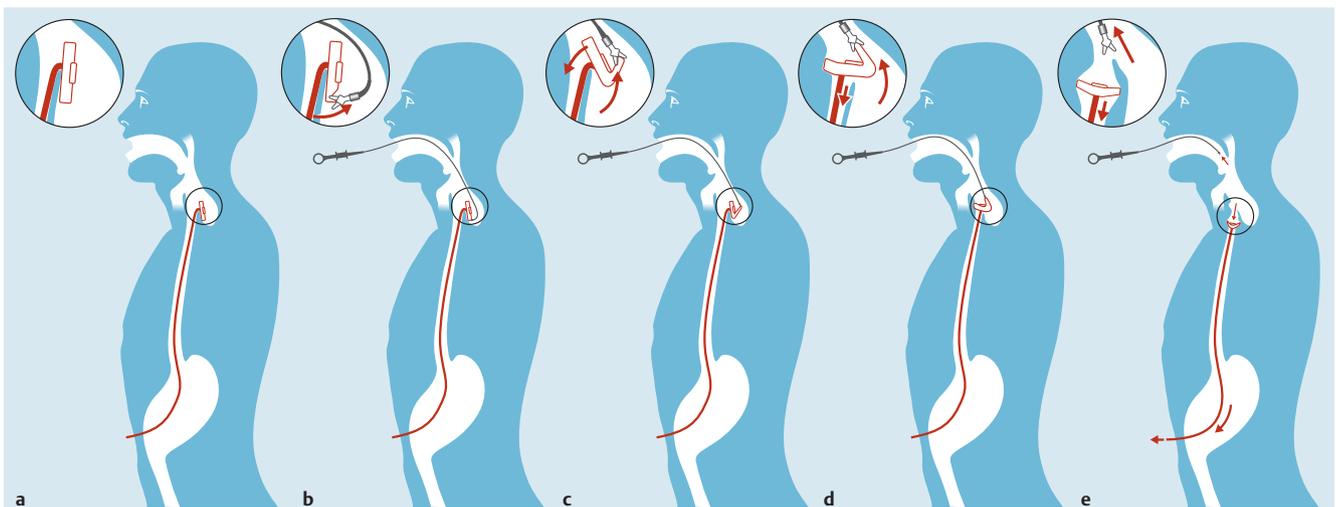
## An unusual complication of percutaneous endoscopic gastrostomy (PEG) placement in the presence of a large pharyngeal pouch



**Fig. 1** Contrast swallow studies in an 80-year-old man with a known benign lower esophageal stricture and pharyngeal pouch and dysphagia. **a** Lateral view shows contrast in the pouch. **b** Anterior view shows contrast in the pouch and esophagus, as well as aspirated contrast in the trachea.

An 80-year-old man with a known benign lower esophageal stricture and pharyngeal pouch was admitted with a 2-week history of malaise, dysphagia, regurgitation, and weight loss. He had elected not to have the esophageal stricture dilated 3 years earlier. On this admission, the dysphagia persisted despite dilatation of the esophageal stricture, and a contrast swallow study demonstrated most of the contrast entering the pouch, with little entering the esophagus (● Fig. 1a); there was some aspiration of contrast (● Fig. 1b). The patient was nutritionally too frail for repair of the pharyngeal pouch [1,2]. Nasogastric tube insertion failed and a decision was taken to insert a percutaneous endoscopic gastrostomy (PEG) via the “pull technique” [3].

On intubation, the esophageal stricture required further dilation to allow passage of the smallest gauge PEG (9-Fr Freka-PEG, Cheshire, UK). However, on applying traction to the guiding string, resistance was obtained before the PEG had fully exited the stomach. At endoscopy, the internal bumper was found sitting flat across the opening of the pouch rather than within the esophageal lumen (● Fig. 2a). Downward traction on the string caused downward traction on the junction between the pouch and esophagus, instead of permitting passage of the bumper. To allow passage of the internal bumper, its inferior aspect was grasped with stent-retrieval forceps (● Fig. 2b) and lifted up while traction was applied to the guiding string (● Fig. 2c–e).



**Fig. 2** a–e Illustration of the technique described in the text for percutaneous endoscopic gastrostomy (PEG) placement.

We are unaware of such a complication being reported previously. Although the complication was resolved, the procedure was technically difficult in the confined space of the pouch and might have failed. Caution is indicated for PEG insertion in the presence of a large pharyngeal pouch, and the “push technique” [3] or a radiologically inserted gastrostomy (RIG) [4] should be considered.

Endoscopy\_UCTN\_Code\_CPL\_1AH\_2AI

**Competing interests:** None

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**DOI** <http://dx.doi.org/10.1055/s-0032-1326261>  
*Endoscopy* 2013; 45: E217–E218  
© Georg Thieme Verlag KG  
Stuttgart · New York  
ISSN 0013-726X

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