Giant esophageal diverticulum as a new clinical indication for endoscopic gastrostomy

Key words: Esophageal diverticulum. Endoscopic gastrostomy. PEG.


Dear Editor,

Persistent mechanical or functional dysphagia is the most common clinical indication for endoscopic gastrostomy (PEG). However, current guidelines do not address additional less common conditions that may justify prolonged enteral feeding beyond the usual oncologic and neurologic disorders.

Case report

A 76-year-old man was referred to our artificial feeding outpatient clinic due to persistent dysphagia, weight loss and several episodes of aspiration and pneumonia. Significant malnutrition was evident (body mass index: 15 kg/m²). An upper gastrointestinal endoscopy was performed, showing a tortuous esophagus and a giant diverticulum with a wide neck and food debris (Fig. 1A). Ineffective peristalsis and transient lumen esophageal stenosis were observed. A nasogastric tube was passed under endoscopic guidance in order to start enteral feeding immediately. Esophageal x-ray and a computed tomography (CT) scan confirmed a 9 cm long esophageal diverticulum (Fig. 1B). Given the advanced age, the impossibility for endoscopic therapy and the potential complications from surgical resection, the patient underwent PEG a few days later. After the procedure, nutritional status improved and no additional aspiration occurred.

Discussion

Esophageal diverticula are unusual congenital or acquired malformations of the gastrointestinal tract and include pharyngoesophageal (Zenker’s), mid-esophageal (traction) and epiphrenic diverticula (1-4). Large symptomatic diverticula are traditionally managed by surgery via esophageal myotomy and diverticulectomy (or diverticulopexy); however, an endoscopic approach may be considered in selected cases (1,3). Nevertheless, we believe that PEG could be an effective option for long-term enteral feeding in elderly patients with high surgical risk, avoiding aspiration caused by dysphagia and preventing malnutrition. Dysphagia, regurgitation and aspiration pneumonia due to giant esophageal diverticula emerge as new clinical indications for PEG not previously reported in literature.

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References


Fig. 1. A. Giant diverticulum observed during upper gastrointestinal endoscopy adjacent to the esophageal lumen filled by a nasogastric tube. B. The same diverticulum in an esophageal x-ray.