Peroral endoscopic myotomy and simultaneous endoscopic diverticuloseptotomy in a case of achalasia with diverticula

A 58-year-old man with symptoms of dysphagia and regurgitation was admitted for treatment. Evaluation with endoscopy and contrast esophagogram revealed achalasia cardia with a small mid-esophageal diverticulum and a large epiphrenic diverticulum (▶ Fig. 1, ▶ Fig. 2). Peroral endoscopic myotomy (POEM) and a simultaneous endoscopic diverticuloseptotomy were performed in this case (▶ Video 1). Firstly, submucosal injection and mucosal incision were made at about 5 cm above the epiphrenic diverticulum. Secondly, a submucosal tunnel was created pointing toward the diverticular septum and extended on both sides of the septum, i.e., the diverticular and esophageal lumen side (▶ Fig. 3). Thirdly, complete myotomies of the muscle layer of the diverticular septum and the esophagus were performed separately. Due to technical difficulty, a small mucosal perforation occurred at the most narrow, twisted, and spasmodic part of the distal esophagus (▶ Fig. 4). In the final step, the small mucosal injury and the entry of the tunnel were closed with endoclips. An X-ray contrast study 5 days after POEM revealed a free flow of contrast medium across the gastroesophageal junction and a collapsed epiphrenic diverticulum (▶ Fig. 5). There was substantial improvement in the patient’s clinical symptoms as well. At the 3-month follow-up, the patient reported complete resolution of dysphagia.

POEM has been introduced for achalasia treatment as a less invasive alternative to laparoscopic Heller myotomy [1]. However, a few patients with achalasia have a co-existing large epiphrenic diverticulum, which may cause technical difficulties and increase the rates of procedure-related adverse events [2, 3]. In our
case, a small esophageal mucosal injury occurred during POEM, which was completely sealed by an endoclip without any postoperative complications. Classically, a diverticulum of the middle esophagus is classified as a Rokitansky diverticulum, and it rarely attains an appreciable size or produces any symptoms [4]. We did not treat the small mid-esophageal diverticulum in this case.

References


Competing interests

None

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