Epiphrenic diverticulum of the esophagus after peroral endoscopic myotomy

A 34-year-old man was referred to our hospital because of chest pain and dysphagia that had lasted for 5 years. Endoscopy showed a tight esophagogastric junction (Fig. 1). On high resolution manometry (Star Medical, Tokyo, Japan), the mean lower esophageal sphincter (LES) pressure and integrated relaxation pressure were 44.3 and 43.3 mmHg, respectively (Fig. 2). Type II achalasia was diagnosed according to the Chicago classification criteria [1]. Peroral endoscopic myotomy (POEM) was successfully performed in the right anterolateral side of the esophagus, as previously described by Inoue et al. [2]. At the 2-month follow-up, hypercontractile peristalsis was seen, with a reduction of the LES pressure on high resolution manometry (Fig. 3). Additionally, an esophageal diverticulum had developed (Fig. 4), although the patient’s symptoms were markedly reduced; his preoperative Eckardt score of 7 had decreased to 0 postoperatively (a higher score indicates more pronounced symptoms) [3]. The formation of an esophageal diverticulum after POEM for achalasia has not previously been reported. The anterior and right sides of the lower esophagus are anatomically predisposed to the formation of diverticula [4]; thus, clinicians must pay careful attention when they use POEM to treat jackhammer esophagus [5] or type II achalasia associated with complex pleural pan-pressurization, as in this patient. Posterior myotomy can be considered in such cases.

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Hiroki Sato, Kazuya Takahashi, Manabu Takeuchi, Yuichi Sato, Satoru Hashimoto, Kenichi Mizuno, Shuji Terai

Division of Gastroenterology and Hepatology, Niigata University Medical and Dental Hospital, Niigata, Japan

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**Bibliography**

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**Corresponding author**

Hiroki Sato, MD, PhD

Division of Gastroenterology

Niigata University Medical and Dental Hospital

757-1, Asahimachidori

Chuo-ku

Niigata City

Niigata 951-8510

Japan

Fax: +81-25-223-0776

pyloki@yahoo.co.jp