Cervical esophageal adenocarcinoma arising from heterotopic gastric mucosa, treated with endoscopic submucosal dissection

Esophageal adenocarcinoma arising from heterotopic gastric mucosa (HGM) is extremely rare [1, 2]. We describe a case of esophageal adenocarcinoma arising from HGM in the cervical esophagus that was treated with endoscopic submucosal dissection (ESD).

A 58-year-old man found to have an esophageal tumor on endoscopy was referred to our hospital for further examination and treatment. Conventional endoscopy revealed circumferential HGM of the cervical esophagus and a 20-mm protruding lesion in the posterior wall. Poorly defined reddish mucosa surrounded the protruding lesion in the reddish mucosa, but the demarcation line was unclear (▶ Fig. 1a). Spraying with indigo carmine visualized the flat lesion in the reddish mucosa, but the demarcation line was unclear (▶ Fig. 1b). Narrow-band imaging (NBI) revealed a clearly demarcated brownish area consistent with the reddish area (arrowheads). Magnifying NBI revealed villous and glandular structures of various sizes and a dense distribution of abnormal capillaries (▶ Fig. 1c,d).

Biopsy showed adenocarcinoma, with no evidence of deep submucosal invasion. Therefore, ESD was performed using a dual knife (KD-655L; Olympus, Tokyo, Japan) and an ITknife nano (KD-612; Olympus, Tokyo, Japan) (▶ Video1). The resected specimen measured 51 × 35 mm and contained a macroscopically measured 32 × 27-mm tumor surrounded by HGM. Histologically, the tumor cells showed well-differentiated adenocarcinoma in the muscularis mucosa (▶ Fig. 2). Immunohistochemically, the tumor cells were positive for mucin (MUC) 2, MUC5AC, and MUC6.

The estimated incidence of HGM of the esophagus is 0.75% – 11% based on endoscopic studies [3, 4]. Primary adenocarcinoma arising from HMG is rare and several cases of mucosal cancer have been reported [1, 2, 5]. The macroscopic appearance was protruding or polyloid in most cases [5]; therefore, adenocarcinoma should be suspected when a protrusion is identified in HGM in the esophagus.

Competing interests

None
The authors

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DOI https://doi.org/10.1055/a-0767-6253
Published online: 23.11.2018
Endoscopy 2019; 51: E28-E29
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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Video 1 Endoscopic submucosal dissection of cervical esophageal adenocarcinoma arising from heterotopic gastric mucosa.

Oono Yasuhiro et al. Cervical esophageal adenocarcinoma arising from heterotopic gastric mucosa, treated with ESD... Endoscopy 2019; 51: E28-E29