Endoscopic examination with virtual chromoendoscopy is currently the best way to distinguish squamous cell carcinoma and adenocarcinoma in the esophagus [1,2]. However, some unusual tumors such as adenoid cystic carcinoma can have atypical endoscopic features.

A 65-year-old man was referred because of an atypical esophageal neoplastic lesion. A gastroscopy had first been performed for a 3-month history of dysphagia and detected a 1-cm polyp in the mid-esophagus. A biopsy sample from this polyp showed atypical adenocarcinoma and he was therefore referred for evaluation with white-light, narrow-band imaging (NBI), and magnification endoscopy (GIF-HQ190; Olympus, Tokyo, Japan) (Fig. 1, Video 1).

We detected a flat brownish circumferential lesion, at 26–42 cm from the dental arch, surrounding the polypoid lesion, which was located at 30 cm. The polypoid component showed a regular mucosal pattern with white “villous” structures surrounded with brown vessels indicating a glandular pattern (Fig. 2). In the flat component, the mucosal pattern had the appearance of a squamous cell carcinoma with the brownish flat lesion and irregular thick capillary loops [3] (Fig. 3). This area was iodo-negative. Endoscopic ultrasound (EUS) found several suspect lymph nodes in the mediastinum. We then confirmed the atypical features with a new biopsy that reported an atypical carcinoma with both glandular and squamous features.

Finally, the patient was referred for an esophagectomy after a transnasal endoscopy (GIF N180; Olympus) had been performed to precisely define the upper margin (Fig. 4). Final histology of the surgical specimen was reported as an adenoid cystic epidermoid carcinoma [4,5] with a basaloid squamous component infiltrating the muscular layer and with Pagegoid spread into the squamous epithelium (Fig. 5).

Adenoid cystic carcinoma is a rare esophageal cancer with large lateral extension. Endoscopic features are a mix of glandular and squamous characteristics and the diagnosis is mainly based on the biopsy samples, which show both glandular and squamous cell carcinoma features. Particular attention must be paid, using virtual chromoendoscopy and magnification, to the precise margins of the lesion.

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Competing interests: None

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Fig. 5  Histology showing an adenoid cystic epidermoid carcinoma with basaloid squamous component.

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DOI http://dx.doi.org/10.1055/s-0042-118167
Endoscopy 2016; 48: E380–E382
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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