A 54-year-old woman was admitted because regular gastroendoscopy incidentally revealed an 8-mm subepithelial lesion 30 cm from the incisors (▶ Fig. 1). Magnifying narrow-band imaging (NBI) showed regular intrapapillary capillary loops, several of which showed slight dilatation (type A) (▶ Fig. 2). Lugol’s iodine staining and ultrasound gastroscopy yielded negative findings. Endoscopic biopsy revealed several scattered heterocyst clusters. Positron emission tomography-computed tomography did not indicate metastasis. Endoscopic submucosal dissection (ESD) was performed for further diagnosis and treatment (▶ Video 1). Microscopically, the lesion was covered with normal epithelium (▶ Fig. 3a). Several poorly differentiated squamous carcinoma cells with dense lymphoplasmacytic infiltration were distributed in the mucosal lamina propria and muscularis mucosa (M3) (▶ Fig. 3b), consistent with lymphoepithelioma-like carcinoma (LELC). In situ hybridization for Epstein-Barr virus showed negative findings. In addition, a dermoid cyst was identified in the muscularis mucosa (▶ Fig. 4). At 3 months post-ESD, the ESD wound had healed well without distant metastasis.

Esophageal LELCs are rare and characterized by poorly differentiated carcinoma with prominent lymphocytic infiltration covered with normal epithelium [1]. Epstein-Barr virus positivity is common but not necessary for diagnosis. Esophagectomy and adjuvant chemoradiotherapy are traditional treatments [2]. Complete removal of early-stage LELC by ESD without distant metastases or recurrence has only been reported once [1]. Dermoid cysts, benign cutaneous tumors of ectoderm origin, have not been found in the esophagus [3]. Squamous cell carcinoma arising from a cranial dermoid cyst has only been reported by Tsugu et al. [4], indicating malignant potential of dermoid cysts, especially of those co-existing with squamous cell carcinoma. To our knowledge, this is the first report of co-existing primary LELC and dermoid cyst in the esophagus, indicating that LELC and dermoid cysts have appearances similar to benign subepithelial lesion on gastroscopy, even with the help of Lugol’s iodine staining, magnifying NBI, and ultrasound gastroscopy. Endoscopists are encouraged to perform regular biopsies for differential diagnosis.

Competing interests

None
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Fig. 3 Histopathological section from endoscopic submucosal dissection sample showed lymphoepithelioma-like carcinoma (LELC). a The LELC was covered with normal epithelium. b The LELC was composed of poorly differentiated squamous carcinoma cells with dense lymphoplasmacytic infiltration (hematoxylin and eosin stain).

Fig. 4 Histopathological section revealed a dermoid cyst lined with squamous epithelium and containing hair follicles (hematoxylin and eosin stain).