Endoscopic submucosal dissection of a neoplastic lesion in the epiglottis

The traditional methods of surgical treatment for supraglottic squamous cell carcinoma (SCC) include open supraglottic laryngectomy, transoral robotic surgery, and transoral laser surgery [1, 2]. These surgical methods cause the patient not only great physical damage but also, as a consequence, a certain economic burden [3]. Exploring the possibilities of endoscopic resection for early lesions is therefore very worthwhile.

An early neoplastic lesion was found in the epiglottis of a 63-year-old man. His history showed that 2 years previously he had undergone extensive resection of SCC of the left hypopharynx and base of the tongue. Six months later he had undergone endoscopic submucosal dissection (ESD) of the right piriform fossa, and a further 6 months later (1 year before the current admission) esophageal ESD was performed. The neoplastic lesion in the epiglottis was found during the regular postoperative nasopharyngeal laryngoscopy.

The lesion was about 1.2 cm × 0.7 cm in size and was assessed as a superficial raised lesion (0-IIa) with B1 and B2 type intraepithelial papillary capillary loops (IPCL) (Fig. 1, Fig. 2). The biopsy histopathological finding was SCC. The boundary of the lesion was clear on narrow-band imaging and Lugol chromoendoscopy. Enhanced computed tomography (CT) showed no evidence of metastasis.

ESD was performed to remove the lesion; no adverse events were observed (Fig. 3, Fig. 4; Video 1). Pathology results revealed poorly differentiated SCC and showed that curative resection was achieved. On routine follow-up, gastroscopy and CT scan showed no recurrence or lymph node metastasis.

Despite the restricted space in the epiglottis, adopting ESD to treat SCC of the epiglottis has the advantages of (1) enabling curative resection with a clear margin in the whole surgical field and (2) ease of operative technique via flexible endoscopy, which is minimally invasive and maintains organ integrity.

Endoscopy UCTN Code TTT 1AO 2AG

Funding

the National Key Research and Development Program of China 2016YFC1302800
CAMS Innovation Fund for Medical Sciences (CIFMS) 2016-2M-001
Sanming Project of Medicine in Shenzhen SZSM201911008

Competing interests

The authors declare that they have no conflict of interest.
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Endoscopy
DOI 10.1055/a-1559-1683
ISSN 0013-726X
published online 2021
© 2021, Thieme. All rights reserved.
Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart, Germany

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Video 1 Early neoplastic lesion in the epiglottis resected by endoscopic submucosal dissection.