A 59-year-old woman presented with progressive dysphagia. At esophagogastroduodenoscopy, a mass 4 cm long and 2 cm wide was observed in the cervical esophagus. It was a smooth-surfaced lesion, with blood vessels branching on top of it (Figure 1). An initial biopsy showed normal results, and the endoscopist suspected a stromal tumor. The patient was referred for an endoscopic ultrasound (EUS) examination, which was carried out with a miniprobe (Olympus UM-2R, 12 MHz). EUS revealed a homogeneous hypoechoic tumor arising from the mucosa and infiltrating the submucosa (Figure 2, 3). This feature is atypical for a stromal tumor, which usually appears as a mass lesion with confined borders that arises from the submucosa or muscularis layers. EUS identified the mucosal part of the tumor, and repeated pinhole biopsies were taken.

The second histological assessment showed that the lesion was a small-cell cancer (Figure 4). Positron-emission tomography (PET) showed that there were no other primary or secondary tumor sites. The patient was diagnosed as having limited primary small-cell cancer in the esophagus. She received chemoradiotherapy treatment over a 3-month period. Follow-up PET and CT examinations 7 months later showed that the primary tumor had completely resolved, with the maximum standardized uptake value (SUV) having decreased from 9.4 to 3.1. However, the treatment was complicated by an esophageal stricture, which required repeated endoscopic dilation procedures. Repeated biopsies did not reveal any malignant cells.

Primary esophageal small-cell cancer is an uncommon condition, representing 1.0–2.8% of esophageal cancers [1, 2]. Patients usually present late with anorexia, weight loss, and dysphagia due to tumor obstruction. To the best of our knowledge, there have been no previous reports in the literature on the EUS features of esophageal small-cell cancer. In this patient, the lesion mimicked a stromal tumor. EUS raised the suspicion of malignant disease, which was subsequently confirmed by the guided biopsy.

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