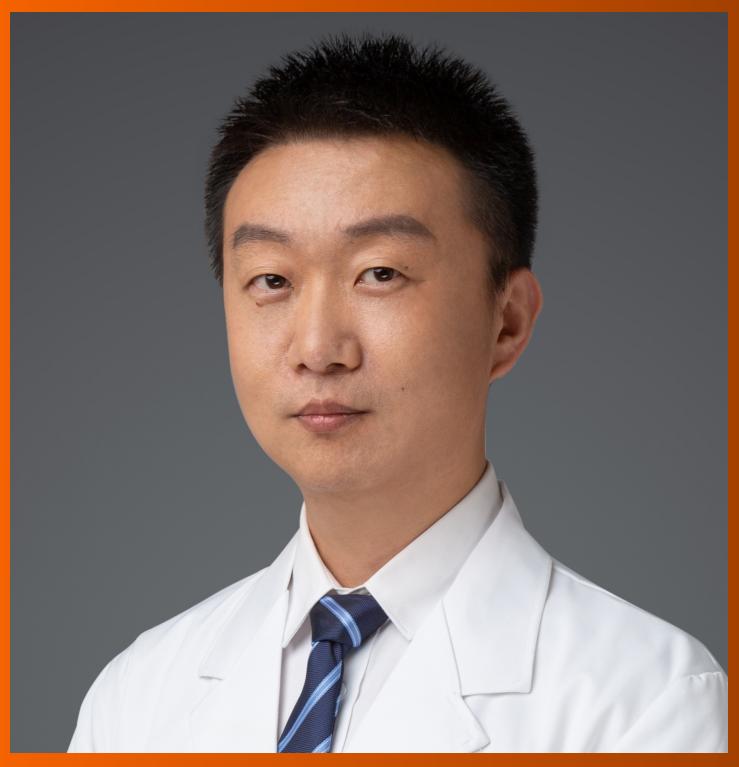
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CASE REPORT

Endoscopic diagnosis of early-stage primary esophageal small cell carcinoma: Report of two cases

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Abstract

BACKGROUND

Primary esophageal small cell carcinoma (PESCC) is a highly aggressive malignancy, and its detailed clinical behaviors have remained virtually unknown. Because of the rapid tumor progression, the diagnosis of esophageal small cell carcinoma at early stage is extremely difficult in clinical practice. Currently, only a handful of PESCC cases have been reported.

CASE SUMMARY

Case 1: A 62-year-old man was diagnosed with an esophageal submucosal tumor by endoscopy. Endoscopic ultrasonography showed a 0.8 cm low echo nodule in the muscularis mucosa. As the patient refused to undergo endoscopic resection, neoplasia was detected by endoscopy 1 year later. Case 2: A 68-year-old woman was diagnosed as having an esophageal submucosal tumor by endoscopy at a local hospital. About 2 wk later, we performed endoscopic ultrasonography and found a 1 cm low echo nodule in the muscularis mucosa; the submucosal was thinner than normal but still continuous; mucosal hyperemia and erosion were found on the surface of the tumor. Endoscopic submucosal dissection (ESD) was performed and the histopathological finding showed a small cell carcinoma invading the submucosal layer.

CONCLUSION

Early esophageal small cell carcinoma shows submucosal infiltrating growth with a hypoechoic mass in the muscularis mucosa as diagnosed by endoscopic ultrasonography. It is easily misdiagnosed as submucosal masses. Endoscopic



Checklist (2016).

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manifestations should be identified and pathological biopsies should be employed. ESD may be performed to provide an opportunity for early treatment of PESCC.

Key Words: Primary esophageal small cell carcinoma; Early stage; Endoscopic submucosal dissection; Endoscopic ultrasonography; Small submucosal masses; Poor prognosis; Case report

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Core Tip: Early-stage primary esophageal small cell carcinoma (PESCC) is extremely rare in clinical practice. Here we report two such cases. Endoscopic manifestations of both cases showed a small submucosal mass. Case 1 missed the best time for treatment and neoplasia developed 1 year later; Case 2 was identified with early-stage of PESCC and the tumor was completely resected by endoscopic submucosal dissection.

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INTRODUCTION

Primary esophageal small cell carcinoma (PESCC) is a highly aggressive malignancy. Its detailed clinical behaviors have remained virtually unknown and the standard therapy has not been established. PESCC is thought to be rapidly progressive and highly metastatic with a poor prognosis^[1,2]. It is difficult to diagnose at early-stage because the tumor was partially covered by a non-neoplastic squamous epithelium, and the diagnosis may be missed based on the findings of endoscopy or an endoscopic biopsy. Endoscopic submucosal dissection (ESD) is an advanced endoscopic technique that allows for the complete *en bloc* resection and possible cure of superficial esophageal neoplasms^[3,4]. Here we report two such cases, in both of which endoscopic manifestations were a small submucosal mass. One case missed the best time for treatment, and neoplasia was detected by endoscopy 1 year later; the other case was identified with small early-stage PESCC, which was completely resected by ESD.

CASE PRESENTATION

Chief complaints

Case 1: A 62-year-old man visited our hospital due to epigastric pain for approximately 2 mo.

Case 2: A 68 year-old woman visited a local hospital due to epigastric pain for approximately 1 mo.

History of present illness

Cases 1 and 2: No specific history of present illness was reported.

History of past illness

Cases 1 and 2: No specific history of past illness was reported.

Personal and family history

Case 1: The patient had an extensive smoking history of 20 years, with an average of 10 cigarettes/day, but no family history of genetic disease was reported.

Case 2: No specific personal or family history was reported.



Physical examination

Cases 1 and 2: There were no obvious abnormalities during the physical examination.

Laboratory examinations

Cases 1 and 2: The routine blood parameters were unremarkable.

Imaging examinations

Case 1: Esophagogastroduodenoscopy (EGD) showed a 0.8 cm submucosal mass covered by a non-neoplastic epithelium in the distal esophagus (Figure 1A). Endoscopic ultrasonography showed a low echo nodule in the muscularis mucosa, with un-uniform internal echo and a clear boundary. The nodule appeared to have a capsule and the submucosa was smooth and continuous (Figure 1B and C). About 14 mo later, the patient had obvious difficulty in swallowing accompanied by chest pain. Esophagogastroduodenoscopy showed a protruding neoplasm with surface ulceration and invasion (Figure 1D). Biopsy and histopathology demonstrated small cell carcinoma, and immunohistochemical staining revealed: Syn (+), CgA (weakly +), CK (-), NSE (+), and CD56 (+). Computed tomography (CT) showed that the wall of the lower esophagus was thickened and the cardia was invaded.

Case 2: EGD showed a 0.8 cm submucosal mass, with mucosal hyperemia and erosion observed on the surface of the tumor (Figure 2). Narrow band imaging showed that a portion of the depressed area was slightly brownish (Figure 2C). The hyperemic and erosive mucosa of the tumor was unstained after iodine staining (Figure 2D). Endoscopic ultrasonography (20 MHz) showed a hypoechoic mass in the muscularis mucosa invading the submucosal layer, and the submucosal layer was thinner than normal but still continuous (Figure 2E and F). Biopsy and histopathology showed small cell carcinoma. CT revealed neither lymph node nor distant metastasis.

FINAL DIAGNOSIS

According to the endoscopic examination, histopathologic assessment, and CT examination, both patients were diagnosed with PESCC.

TREATMENT

Endoscopic resection was recommended to the first patient, but he refused to undergo endoscopic resection. The patient was diagnosed with PESCC and underwent chemoradiotherapy 14 mo later. We diagnosed the second patient with small cell carcinoma, CT1bN0M0 according to the Union for International Cancer Control tumor/node/metastases classification for esophageal carcinoma^[5]. Surgical resection was recommended. However, the patient declined the surgery and endoscopic submucosal dissection was performed. The gross findings of the resected specimen showed a nearly flat lesion with clear margins. Iodine staining indicated an unstained area in a part of the resected specimen (Figure 3A). The histopathological findings showed small cell carcinoma (Figure 3B and C). No vessel invasion or lymphatic permeation was observed in the submucosa. Immunohistochemical analysis revealed that synaptophysin\chromogranin A and CD56 were positive (Figure 3E), as well as a Ki-67 index of 80% (Figure 3F). The horizontal margin was negative, but the tumor infiltrated the entire submucosal layer in the resected specimen. The patient accepted additional surgical resection. The postoperative histopathological findings showed no residual tumor and the lymph node was negative.

OUTCOME AND FOLLOW-UP

The first patient died of brain metastases 3 mo later. The second patient is still asymptomatic as of the writing of this report, and the results of physical examinations remained normal. Nine months after the start of treatment, the patient was still in good general condition and the disease was stable.

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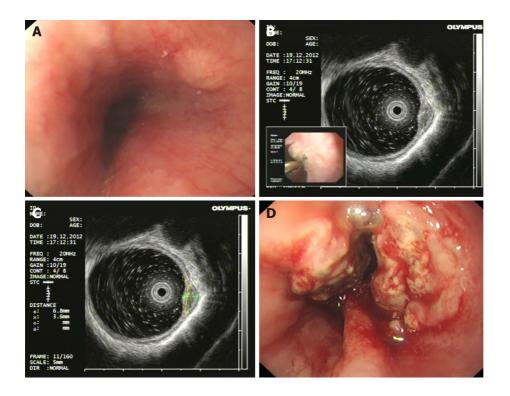


Figure 1 Findings of endoscopic examination (Case 1). A: Esophageal submucosal tumors diagnosed by endoscopy; B: Endoscopic ultrasonography (20 MHz) showed a hypoechoic mass in the muscularis mucosa; C: The mass was about 6.8 mm × 3.6 mm in size; D: Neoplasia was detected by endoscopy 1 year later.

DISCUSSION

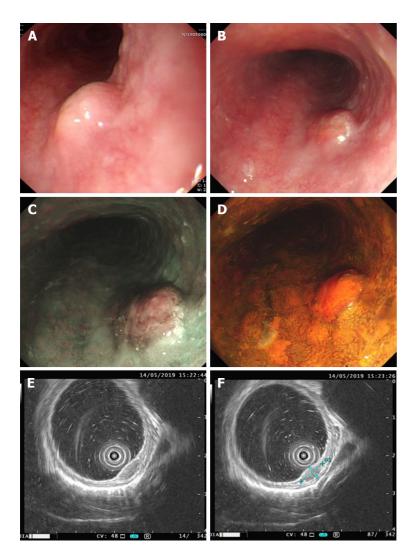
PESCC is characterized by high malignancy and early metastasis. Although the morbidity is very low, PESCC accounts for about 0.05%-3.1% of all cases of esophageal cancer^[6]. However, it is characterized by early dissemination and poor prognosis. Although the standard treatment protocol for such aggressive disease has not been established, most patients were treated by surgical resection, chemotherapy, or radiotherapy, whether alone or in combination^[7,8]. Early-stage PESCC is extremely rare in clinical practice and very few cases have been reported. In addition, the optimal treatment strategy for early-stage PESCC has not been established.

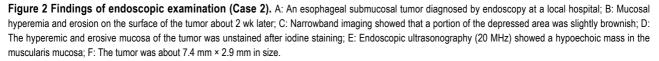
Three important clinical findings were ascertained by the two cases in the present report. Early-stage PESCC can manifest as a small submucosal mass covered by a nonneoplastic epithelium without clinical symptoms; PESCC progresses rapidly even in the early stages; and ESD may be useful as a curative treatment in this period.

With regard to the first clinical issue, early-stage PESCC can manifest as a small submucosal mass covered by a non-neoplastic epithelium without clinical symptoms. PESCC is a rare malignant epithelial tumor that is distinct from squamous cell carcinoma. Two cases of PESCC were first reported by Mckeown^[9] in 1952. Although many consecutive cases have been reported since then, only few large series of cases were reported in either China or other countries^[10,11]. The histological origin of PESCC is controversial. One theory suggests that it originates from esophagus neuroendocrine cells in the basal or submucosal glands of the mucosa called APUD cells, while others hypothesize that a totipotent primitive cell is the common precursor of all epithelial neoplasms of the esophagus and can differentiate into carcinomas of squamous cells, glandular elements, small cells (neurosecretory granules), and reserve cells (without granules). This means that undifferentiated small cell carcinoma, having been classified as one entity by pathologic assessment, actually contains several different entities^[12]. In our patients, endoscopic ultrasonography showed a hypoechoic mass in the muscularis mucosa invading the submucosal layer. It appears to support the former perspective. PESCC at early stage is generally a sub-epithelial growth and frequently covered by a non-neoplastic epithelium^[1]. The biopsy specimen may contain no tumor components, thus it is easily misdiagnosed as a leiomyoma and the chance of diagnosis at early stages of this tumor may be missed. The majority of cases are thus diagnosed at the late stage of the disease at present. It is typically diagnosed only a few months after the onset of symptoms such as dysphagia and weight loss, just like Case one.



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Concerning the second clinical issue, PESCC progresses rapidly even at early stages. The first case showed that it took only 14 mo for the tumor progression from early stage to late stage. In the second case, the tumor developed hyperemic erosion from smooth mucous membrane appearance in about only 2 wk. These observations suggest that if ESD is to be performed, the time from diagnosis to resection should be minimized.

Regarding the third clinical issue, we learned that ESD is useful for curative treatment of PESCC. In the last decade, ESD, a therapeutic endoscopic technique, has been used to excise superficial gastrointestinal neoplastic lesions^[13]. The case described above is the first known report using ESD as a treatment for early-stage PESCC. Because of the rapid growing tumor character causing late-stage detection, most cases are not candidates for noninvasive curative treatments like endoscopic mucosal resection or ESD. If we identify that a tumor may be PESCC at an early stage, even though a biopsy specimen shows no evidence of malignancy, ESD is recommended as a diagnostic resection. Our patient was thereby cured "en bloc" using a minimally invasive dissection technique. Although the patient underwent additional surgery due to full infiltration of the submucosa, the histopathological findings showed no residual tumor and the lymph node was negative. Follow-up study showed a good prognosis.

CONCLUSION

In conclusion, early-stage PESCC can manifest as a small submucosal mass without



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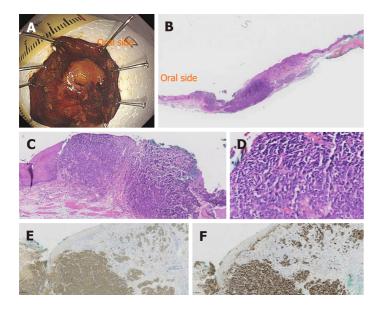


Figure 3 Histological findings of the resected specimen (Case 2). A: The specimen resected by endoscopic submucosal dissection; B: The macroscopic appearance of the small cell carcinoma; C: The tumor was partially covered by a non-neoplastic epithelium (hematoxylin and eosin staining, magnification × 100); D: The small cell carcinoma component observed in a high power field (magnification × 400); E: Immunohistochemical staining showed that synaptophysin were positive (hematoxylin and eosin staining); E: Ki-67 index was 80%.

clinical symptoms. It progresses rapidly even at early stages. Early recognition of PESCC by endoscopy will improve its prognosis. ESD may provide an opportunity for the early treatment of PESCC.

REFERENCES

- 1 Takubo K, Nakamura K, Sawabe M, Arai T, Esaki Y, Miyashita M, Mafune K, Tanaka Y, Sasajima K. Primary undifferentiated small cell carcinoma of the esophagus. Hum Pathol 1999; 30: 216-221 [PMID: 10029452 DOI: 10.1016/s0046-8177(99)90279-4]
- Chen WW, Wang F, Chen S, Wang L, Ren C, Luo HY, Wang FH, Li YH, Zhang DS, Xu RH. 2 Detailed analysis of prognostic factors in primary esophageal small cell carcinoma. Ann Thorac Surg 2014; 97: 1975-1981 [PMID: 24726599 DOI: 10.1016/j.athoracsur.2014.02.037]
- Ono S, Fujishiro M, Niimi K, Goto O, Kodashima S, Yamamichi N, Omata M. Long-term outcomes 3 of endoscopic submucosal dissection for superficial esophageal squamous cell neoplasms. Gastrointest Endosc 2009; 70: 860-866 [PMID: 19577748 DOI: 10.1016/j.gie.2009.04.044]
- 4 Kim MY, Cho JH, Jain P, Cho JY. ESD around the world: Asia. Gastrointest Endosc Clin N Am 2014; 24: 283-293 [PMID: 24679239 DOI: 10.1016/j.giec.2013.11.001]
- 5 Sawaki M, Shien T, Iwata H. TNM classification of malignant tumors (Breast Cancer Study Group). Jpn J Clin Oncol 2019; 49: 228-231 [PMID: 30541035 DOI: 10.1093/jjco/hyy182]
- Wang SY, Mao WM, Du XH, Xu YP, Zhang SZ. The 2002 AJCC TNM classification is a better 6 predictor of primary small cell esophageal carcinoma outcome than the VALSG staging system. Chin J Cancer 2013; 32: 342-352 [PMID: 23114087 DOI: 10.5732/cjc.012.10161]
- 7 Xie MR, Xu SB, Sun XH, Ke L, Mei XY, Liu CQ, Ma DC. Role of surgery in the management and prognosis of limited-stage small cell carcinoma of the esophagus. Dis Esophagus 2015; 28: 476-482 [PMID: 24787553 DOI: 10.1111/dote.12230]
- Xiao Q, Xiao H, Ouyang S, Tang J, Zhang B, Wang H. Primary small cell carcinoma of the 8 esophagus: Comparison between a Chinese cohort and Surveillance, Epidemiology, and End Results (SEER) data. Cancer Med 2019; 8: 1074-1085 [PMID: 30740907 DOI: 10.1002/cam4.2001]
- MCKEOWN F. Oat-cell carcinoma of the oesophagus. J Pathol Bacteriol 1952; 64: 889-891 [PMID: 13000600 DOI: 10.1002/path.1700640420]
- Ku GY, Minsky BD, Rusch VW, Bains M, Kelsen DP, Ilson DH. Small-cell carcinoma of the 10 esophagus and gastroesophageal junction: review of the Memorial Sloan-Kettering experience. Ann Oncol 2008; 19: 533-537 [PMID: 17947223 DOI: 10.1093/annonc/mdm476]
- 11 Wong AT, Shao M, Rineer J, Osborn V, Schwartz D, Schreiber D. Treatment and survival outcomes of small cell carcinoma of the esophagus: an analysis of the National Cancer Data Base. Dis Esophagus 2017; 30: 1-5 [PMID: 27860114 DOI: 10.1111/dote.12487]
- Fukunaga Y, Hirata S, Tanimura S, Okawa K, Higashino M, Inoue T, Kobayashi Y. Superficial 12 undifferentiated small cell carcinoma of the esophagus showing an interesting growing pattern in histology. Hepatogastroenterology 2000; 47: 429-432 [PMID: 10791205]



13 Kuwai T, Yamaguchi T, Imagawa H, Miura R, Sumida Y, Takasago T, Miyasako Y, Nishimura T, Iio S, Yamaguchi A, Kouno H, Kohno H, Ishaq S. Endoscopic submucosal dissection for early esophageal neoplasms using the stag beetle knife. World J Gastroenterol 2018; 24: 1632-1640 [PMID: 29686470 DOI: 10.3748/wjg.v24.i15.1632]





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