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Introduction

- New onset dysphagia warrants endoscopic evaluation to rule out structural etiologies, including malignancy.
- cell carcinoma.
- We report a rare case of esophageal small-cell neuroendocrine carcinoma (NEC) presenting with dysphagia.

Patient Presentation

- A 76-year-old African American female with a history of left lung non-small cell to an outside hospital with dysphagia to solids and unintentional weight loss over the previous month.
- She denied history of smoking.
- Her BP was 163/81, pulse 81, temperature 36.7 and respiratory rate 16.
- Rest of the physical exam was normal.
- Labs showed mild normocytic anemia (hemoglobin 11.2 g/dL).
- Chest CT scan revealed a soft tissue mass at junction of the cervical and thoracic esophagus (Figure 1A).
- Due to the proximity of the mass to the airway, she was transferred to our hospital for evaluation.
- 25 cm from the incisors. Multiple biopsies were obtained with histology showing small cell NEC (Figures 1D-F).
- Positron emission tomography revealed lymph nodes metastases above and below the diaphragm, liver and multiple bones.
- Brain magnetic resonance imaging was negative for metastases.
- Patient was not a candidate for surgical resection or stenting given the proximal esophageal location of the tumor and required gastrostomy tube placement for nutrition by interventional radiology.
- Palliative chemoradiation (carboplatin, etoposide, atezolizumab) has started and the patient is currently tolerating therapy for 2 months since diagnosis.

Small Cell Neuroendocrine Esophageal Carcinoma: A Rare Cause of Dysphagia

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The vast majority (>95%) of esophageal cancers are adenocarcinoma or squamous

neoplasm status post left lower lobectomy and adjuvant chemo-radiation presented

EGD confirmed an esophageal mass located at 16 cm from incisors, just distal to the upper esophageal sphincter, causing near complete esophageal obstruction (Figures 1B-C). Using a pediatric gastroscope, the mass was traversed and noted to extend to



Figure 1A: CT scan of the chest (sagittal view) showing a soft tissue mass at the junction of the cervical and thoracic esophagus (arrow). Figure 1B-C: Esophagogastroduodenoscopy showing an esophageal mass located at 16 cm from incisors causing near complete obstruction of of basophilic cells, with scant cytoplasm, high nuclear/cytopthe esophagus. Figure 1D: A high power (400x, H&E) view shows a highly cellular tumor comprised lasmic ratio, salt-and pepper chromatin, and nuclear molding with crush artifact. There are abundant apoptotic cells and frequent mitotic figures, indicating a highly proliferative tumor. Figure 1E: 400x, chromogranin immunostaining, showing focally positive cells, consistent with neuroendocrine differentiation. Figure 1F: 400x, synaptophysin immunostaining, showing diffuse positivity in tumor cells, consistent with neuroendocrine differentiation.

Discussion

Esophageal small-cell NEC is a rare esophageal malignancy, accounting for 0.4-2.0% of esophageal cancers.

Esophageal small-cell NEC are typically highly aggressive, frequently have metastasized by the time of diagnosis, and associated with poor prognosis. While surgical resection may be attempted for limited disease, those with metastases are typically managed with chemotherapy, with or without radiotherapy.

Gastroenterologists should include rare esophageal malignancies, including small cell NEC, on their differential for new onset dysphagia to solids.

