

Metastatic, Poorly-Differentiated Neuroendocrine Tumor of the Esophagus: **Case Report and Literature Review of a "Rare Rarity"!**

Sarah Enslin, PA-C¹, Muhammad Waqas Tahir, MD², Raseen Tariq, MD³, Vivek Kaul, MD, FACG¹

¹Division of Gastroenterology and Hepatology, University of Rochester Medical Center, Rochester, NY; ²Department of Medicine, Rochester General Hospital, Rochester, NY; ³Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester, MN

Introduction:

- Neuroendocrine tumors (NET) most commonly develop in the lungs, appendix, bowel and pancreas
- Esophageal NETs are extremely rare, comprising < 2% of all NETs
- Most common symptom is \bullet dysphagia although patients may be asymptomatic
- We present a case of metastatic esophageal NET with literature review

Case Report:

- 61yo female presents with worsening chest tightness, weight loss and diarrhea x 5 months
- Abdominal CT scan revealed enlarged gastrohepatic lymph nodes (Image 1)
- EGD showed a 3cm ulcerated lesion at the gastroesophageal junction (GEJ). Biopsies suggested highgrade NET
- Patient was referred to our center for further management

<u>Case Report (continued):</u>

- \bullet
- \bullet metastatic neuroendocrine tumor (T2N1)
- \bullet
- and etoposide
- \bullet immunotherapy with ipilimumab + nivolumab

Image 1:



• PET/CT confirmed a 3.0 x 2.3cm ill-defined, hypermetabolic, soft tissue mass at the GEJ (SUV max 9.0) and several hypermetabolic, enlarged gastrohepatic LNs, largest measuring 2.8 x 2.0cm (SUV max 8)

Repeat EGD revealed a 3cm distal esophageal lesion with central ulceration extending across the GEJ into the high cardia (Image 2)

On endoscopic ultrasound (EUS), a hypoechoic mass is seen with involvement of the muscularis propria (T2). Peri-gastric lymphadenopathy was present. Transgastric fine needle aspiration (FNA) of the largest LN confirmed

Repeat endoluminal biopsies from the esophageal mass confirmed poorlydifferentiated NET, CD56 & synaptophysin positive, Ki-67 > 90%

Multidisciplinary tumor board recommended chemotherapy with carboplatin

Restaging CT scan after 6 treatment cycles revealed a new hypermetabolic focus in the left hepatic lobe consistent with metastasis; plan to start 2nd line

Image 2:



3cm esophageal lesion with central ulceration at GEJ/high cardia

Conclusion:

- rare
- 12-18 months
- chemotherapy)
- of these lesions, accurate these patients

References:

- Hematol. 2019;137:92-107
- 2014; 14:569



Metastatic poorly-differentiated highgrade NET of the esophagus is very

First-line therapy is chemotherapy Average prognosis with treatment is Immunotherapy may provide additional survival benefit; however, data is extremely limited, so this is typically reserved for second-line therapy (if progression seen on Given the rarity and aggressiveness pathological diagnosis and multidisciplinary discussion is critical for optimal management of

1. Giannetta E, Guarnotta V, Rota F, et al. A rare rarity: neuroendocrine tumor of the esophagus. Crit Rev Oncol 2. Lee C, Lim Y, Park S, et al. The clinical features and treatment modality of esophageal neuroendocrine tumors: a multicenter study in Korea. BMC Cancer.