

Neuroendocrine Tumor Diagnosed while Performing Upper Endoscopy Surveillance of Gastric Intestinal Metaplasia

Aditya Chauhan¹, Vijay Gayam², Praneeth Bandaru², Srilaxmi Gujjula², Jamil Shah², Derrick Cheung², Denzil Etienne², Madhavi Reddy², 1. Department of Internal medicine; 2. Department of Gastroenterology and Hepatology, The Brooklyn Hospital Center.

Introduction

- Gastric neuroendocrine tumors (GNET) are rare tumors arising from the enterochromaffin cells of the gastric mucosa.
- They account for less than one percent of all gastric neoplasms and around eight percent of all gastrointestinal neuroendocrine tumors.
- Endoscopic resection is considered the best treatment option for type 1 GNETs.
- However, due to the rarity of this entity, no specific management guidelines are currently available.

Case Report

present a case of an asymptomatic 47-year-old We female diagnosed with a neuroendocrine tumor via upper endoscopy performed for surveillance of gastric intestinal metaplasia. She was found to have several gastric polyps (Figure 1), of which two had immunohistochemistry (IHC) and histology suggestive of well-differentiated neuroendocrine tumor (grade one). Notably, these polyps were found amidst the backdrop of chronic gastritis and elevated chromogranin (638.9) and gastrin (1088) levels. Biopsy results from one gastric polyp showed ink margin positive for tumor and the patient is currently scheduled to undergo endoscopic ultrasound (EUS) with polypectomy to ensure complete removal of tumors with clean margins.





endoscopy

Figure 1. Multiple inflammatory gastric polyps (blue arrows) visualized on upper

- serum gastrin levels.

- clinically relevant entity.
- pathophysiology.

Discussion

GNETs are classified into three distinct subtypes based on

• Literature suggests that type 1 and type 2 GNETs are usually discovered incidentally on endoscopy.

• They appear as either multiple small polypoid lesions or as multiple smooth hemispherical submucosal lesions.

• Notably, type 1 GNETs are found commonly in the setting of atrophic gastric mucosa while type 2 GNETS are found in hypertrophic gastric mucosa.

• Of note, there has been growing literature on the increasing incidence of GNET type 1 in patients with gastric metaplasia in the setting of chronic atrophic gastritis.

Conclusion

 Our case supports the literature and emphasizes the importance of being able to identify the gross morphology of GNET while carrying a high index of suspicion for this rare yet

• The origin of neuroendocrine tumor from gastric metaplasia is intriguing and invites further studies for understanding the