

COMPOSITE GANGLIOCYTOMA/NEUROMA AND NEUROENDOCRINE TUMOR IN THE DUODENUM: A RARE CASE REPORT AND MANAGEMENT CHALLENGES IN A YOUNG FEMALE PATIENT

Markos Despotidis¹, Ioannis Katsaros¹, Christos Giagkos¹, Georgios Korovesis¹, Stratigoula Sakellariou², Michail Vailas¹, Panagiotis Sakarellos¹, Ioannis Gkriniatsos¹
¹ First Department of Surgery, National and Kapodistrian University of Athens, Laikon General Hospital, Athens, Greece
² First Department of Pathology, National and Kapodistrian University of Athens, Medical School, Athens, Greece

INTRODUCTION

- Gastrointestinal tumors include various neoplasms with distinct diagnostic and treatment challenges
- A lesion's location near the ampulla of Vater contributes to treatment difficulties

CASE PRESENTATION

- 22-year-old female presented with melena
- Lesion found in the second part of the duodenum
- Endoscopic removal attempts failed due to lesion's high vascularity
- Patient referred for endoscopic ultrasound (EUS)
- Selective embolization of the lesion's feeding arteries
- Review of the lesion with EUS revealed high vascularity again
- Underwent surgical partial ampullectomy and lesion excision
- Histopathology showed composite gangliocytoma/neuroma and neuroendocrine tumor
- Diagnosis indicates a rare neoplasm with neuronal and endocrine components

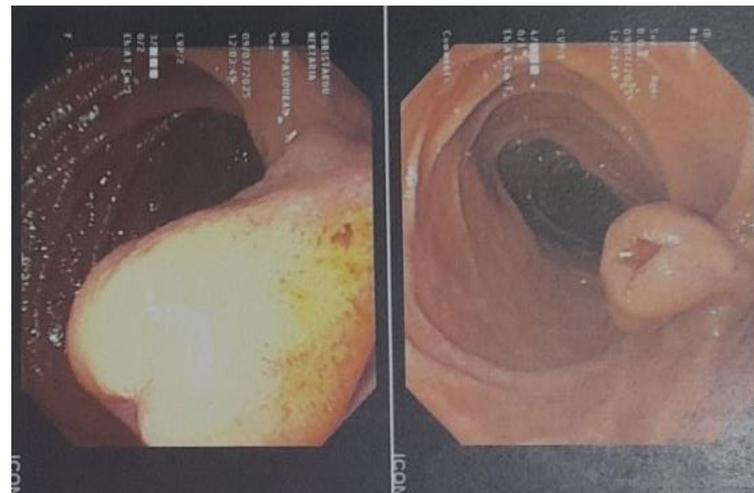


Figure 1. Endoscopy reveals duodenal lesion

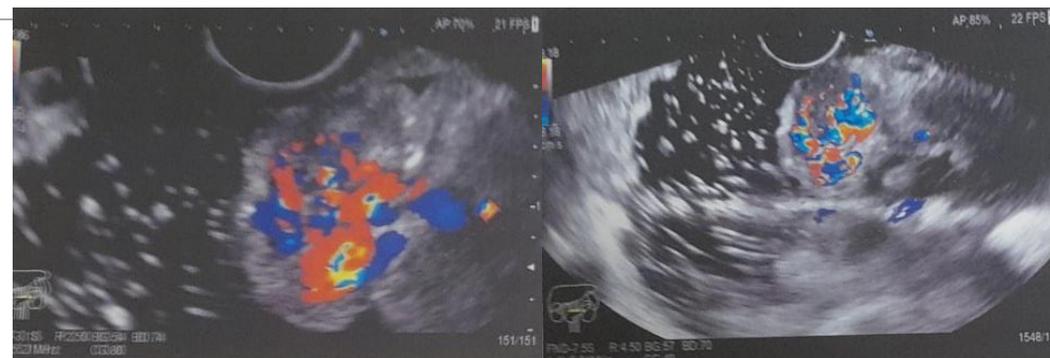


Figure 2. EUS shows high vascularity

DISCUSSION

- Rare, complex duodenal tumours can be the cause of melena in young patients
- High vascularity and proximity of the lesion to the ampulla of Vater complicate management
- Endoscopic excision is preferred if possible
- Surgical excision is a safe and efficient alternative
- Tumour behaviour is not clearly defined, follow-up needed

CONCLUSION

- Rare composite tumors in the duodenum challenging in diagnosing and treating
- Need for multidisciplinary approach and endoscopic, surgical, and pathological expertise

REFERENCES

- Choi H, Choi JW, Ryu DH, Park S, Kim MJ, Yoo KC, Woo CG. Ampullary gangliocytic paraganglioma with lymph node metastasis: A case report with literature review. *Medicine (Baltimore)*. 2022 Apr 15;101(15):e29138. doi: 10.1097/MD.00000000000029138. PMID: 35475800; PMCID: PMC9276348.
- Karam E, Hollenbach M, Heise C, Ali EA, Gulla A, Auriemma F, Terris B, Souche FR, de Ponthaud C, Hank T, Caillol F, Rhaïem R, Sauvanet A, Napoléon B, Regner S, Gaujoux S. Ampullary composite gangliocytoma/neuroma and neuroendocrine tumor management. *Endocr Relat Cancer*. 2025 Jan 17;32(3):e240238. doi: 10.1530/ERC-24-0238. PMID: 39745186.

Στοιχεία Επικοινωνίας

First Department of Surgery, National and Kapodistrian University of Athens, Laikon General Hospital, Athens, Greece
asurgery@med.uoa.gr