An Uncommon Cause of Abdominal Obstruction: A Jejunal GIST

Juan Adams-Chahin, MD (1); Gabriela Negron-Ocasio, MD (1); Paloma Velasco-Corrado, MD (1); Frances Gonzalez-Reyes, MD (1); Franchesca O'Donell (1); Juan Santiago-Gonzalez, MD (1); Marcel Mesa, MD (1); Enrique Leal-Alviarez (1); Jorge Barletta-Farias, MD (1). Department of Internal Medicine, University of Puerto Rico School of Medicine (1).

Introduction

- Gastrointestinal stromal tumors (GISTs) are rare neoplasm of the GI tract accounting for only 1% of all primary GI tumors.
- Most common mesenchymal tumor (80%) of the GI tract.
- Age of onset usually between the 7th decade of lacksquarelife with similar male-to-female ratio.
- Originates at any site from the esophagus to the \bullet anus and in fewer cases outside the GI tract.
- We report a case of a jejunal GIST causing \bullet chronic obstruction of the small intestine.

Clinical Case

- 54-year-old male, inmate with medical history of Hepatitis C arrives to the ED with complaints of intractable emesis and abdominal discomfort.
- The patient reports 8-10 episodes/day of gastric content vomiting that eventually turned bilious for the past 2 weeks associated with epigastric discomfort, fatigue, anorexia, and weight loss of 20 lbs.
- On evaluation, he appeared chronically ill with • evidence of hypovolemic shock. Physical exam was remarkable for a peri-umbilical mass with no tenderness to palpation or guarding.
- Laboratories were remarkable for azotemia, • elevated creatinine levels and severe electrolytes disturbances.



- GIST.

Abdominal CT showed an exophytic soft tissue mass arising from the mid ileum that measured approximately 4.5 x 5.3 x 4.7 cm with associated slight swirling of the mesentery and upstream bowel loops, resulting in apartial high grade small bowel obstruction.

• He underwent percutaneous biopsy with pathology report resulting in a high risk spindle cell lesion, consistent with

Immunohistochemistry only positive for C-KIT with a mitotic rate > $5/5 \text{ mm}^{2}$.

The patient had surgical excision of jejunal mass via small bowel resection and was discharged on tyrosine kinase inhibitor (Imatinib).

• At 6 months follow up, the patient was found disease free.

- respectively.
- was surgically resected.
- high risk of recurrence.
- rates in this population









Discussion

Occasionally, GISTs are found incidentally on imaging, predominantly in the stomach and small intestine,

In our case, the patient presented with a KIT-positive jejunal GIST causing abdominal obstruction thus it

Adjuvant therapy with Imatinib was given due to its elevated mitotic rate and high risk for progression.

• Follow-up enhanced CT is recommended due to its

Conclusions

Early detection of these tumors requires a high level of suspicion hence the necessity of additional investigation to improve the prognosis and survival

References

• Sashidharan, P.; Matele, A.; Matele, U.; Al Felahi, N.; Kassem, K. F.; *Gastrointestinal* stromal tumors: a case report. Oman Med J. 2014 Mar;29(2):138-41. doi: 10.5001/omj.2014.34. PMID: 24715944; PMCID: PMC3976734.

• Miettinen, M.; Lasota, J. Gastrointestinal stromal tumors-definition, clinical, histological, immunohistochemical, and molecular genetic features and differential diagnosis. Virchows Arch 2001. Jan;438(1):1-12 10.1007/s004280000338.

• Nilsson, B.; Bümming, P.; Meis-Kindblom, J.M.; et al. Gastrointestinal stromal tumors: the incidence, prevalence, clinical course, and prognostication in the preimatinib mesylate era-a population-based study in western Sweden. Cancer 2005; 103:821.