

## Introduction

Malignant melanoma can metastasize to the small bowel. Symptoms are non-specific, and most patients go undiagnosed during their lifetime. When found, surgical resection significantly improves survival; however, overall prognosis remains poor.

# **Case Description**

A 63-year-old male with history of metastatic melanoma with metastasis to the lungs and brain presented with abdominal pain and intermittent hematochezia. He was previously diagnosed with immune mediated colitis related to ipilimumab and nivolumab therapy that had resolved with steroid therapy and infliximab. Computerized tomography (CT) of the abdomen-pelvis did not reveal any bowel abnormalities. Endoscopic evaluation was pursued. Colonoscopy did not reveal any mucosal disease. However, upper endoscopy revealed five large and small-sized ulcerated masses in the duodenum (Figure 1A). Biopsies of these masses revealed metastatic melanoma (Figure 1B) with positive SOX-10 immunostaining (Figure 1C). The patient was started on new immunotherapy with plans for further management with oncology.

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# A Case of Metastatic Melanoma of the Duodenum Naveen A. Mallangada, MD<sup>1</sup>; Eric Zhao, MD<sup>1</sup>; Kapil Gupta, MD<sup>2</sup>; Mahmoud A. Ali, MBBCh<sup>3</sup>; Anish V. Patel, MD<sup>2</sup>

<sup>1</sup>Department of Internal Medicine, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ <sup>2</sup>Division of Gastroenterology & Hepatology, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ <sup>3</sup>Department of Pathology & Laboratory Medicine, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ

Case Description (cont.)





Figure 1. [A] Intra-procedure EGD image within duodenum exhibiting suspected masses that were subsequently biopsied. [B] hematoxylin and eosin staining of duodenal mass biopsy. [C] SOX-10 immunostaining of biopsies demonstrating marker expression identifying metastatic melanoma.

### Discussion

We present here a case of metastatic melanoma of the duodenum. Melanoma is the fifth most common cancer in the United States<sup>[1]</sup>. The small bowel is the most common site of gastrointestinal (GI) tract metastasis. However, most patients with metastatic intestinal melanoma go un-diagnosed, as only 1.5% to 4.4% receive a clinical diagnosis<sup>[2]</sup>.



presentation of intestinal Common melanoma includes abdominal pain, anemia, obstruction and GI bleeding. Diagnostic modalities include abdominal ultrasound, contrastenhanced CT, upper GI series, endoscopy, and capsule endoscopy. Imaging can reveal a polypoid mass with central ulceration, described as a target or a bulls-eye lesion. Endoscopic assessment typically reveals black colored ulcerated lesions. The treatment of choice for small bowel melanoma is complete resection. However, overall prognosis is still poor, as median survival for patients who undergo curative resection is 22 months<sup>[3]</sup>. Immunotherapy is considered for multiple lesions.

In conclusion, patients with known melanoma presenting with GI symptoms should be evaluated for small bowel involvement, either radiologically or endoscopically. These patients should be approached with a high index of suspicion, as early detection and complete resection can significantly improve survival. Prior history of immune mediated enterocolitis should not preclude repeat thorough endoscopic evaluation when patients have new onset of GI symptoms.

# Cancer J Clin 70, 7–30 (2020).

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## **Discussion** (cont.)

## References

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# Rutgers — The State University of New Jersey