

A Case of Invasive Gastrointestinal Mold Infection

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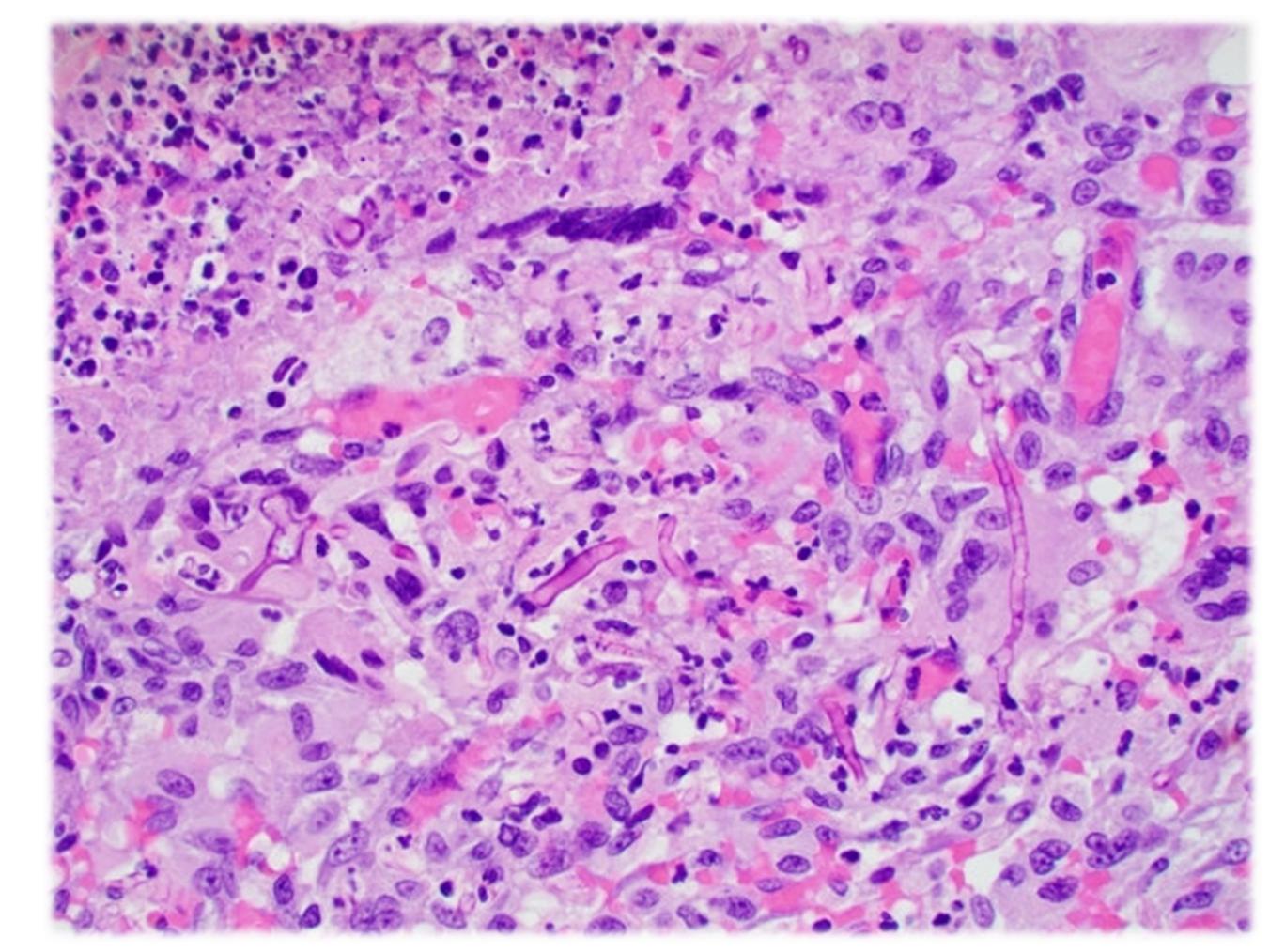
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INTRODUCTION

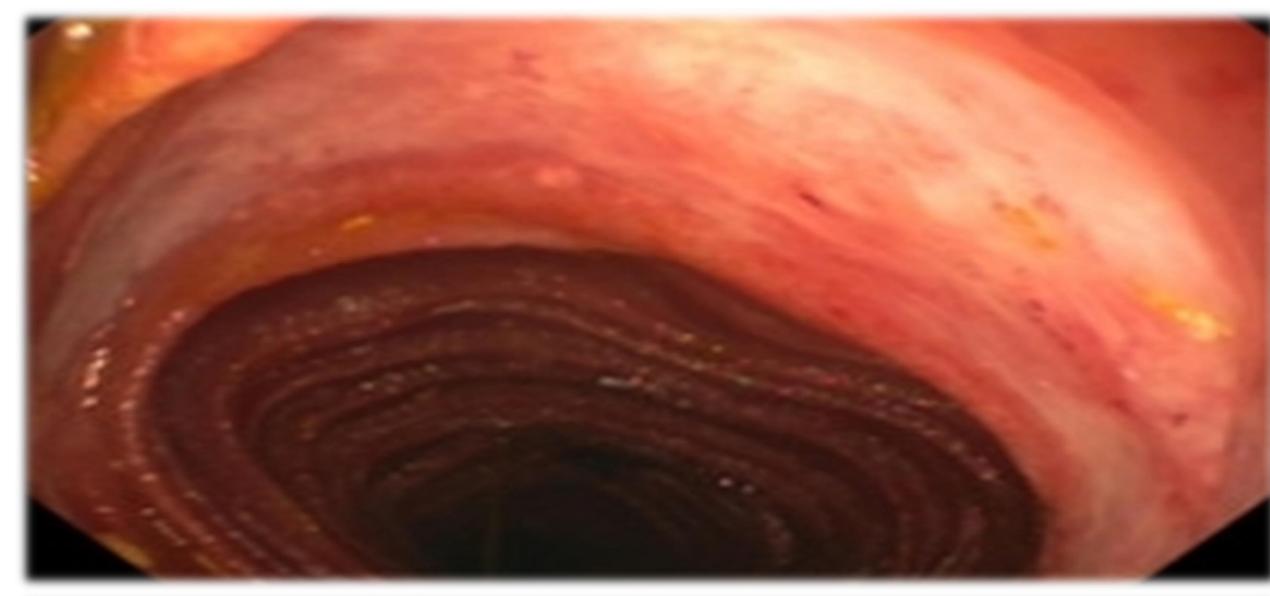
- Invasive mold infections can be devastating and are mostly seen in patients with hematologic malignancies, profound neutropenia, solid organ or hematopoietic cell transplantation, and poorly controlled diabetes mellitus.
- Mucormycosis is caused by a group of ubiquitous molds called Mucormycetes and characterized by tissue infarction and necrosis that results from invasion of the vasculature by hyphae.
- We present a rare case of a patient with invasive gastrointestinal mold infection.

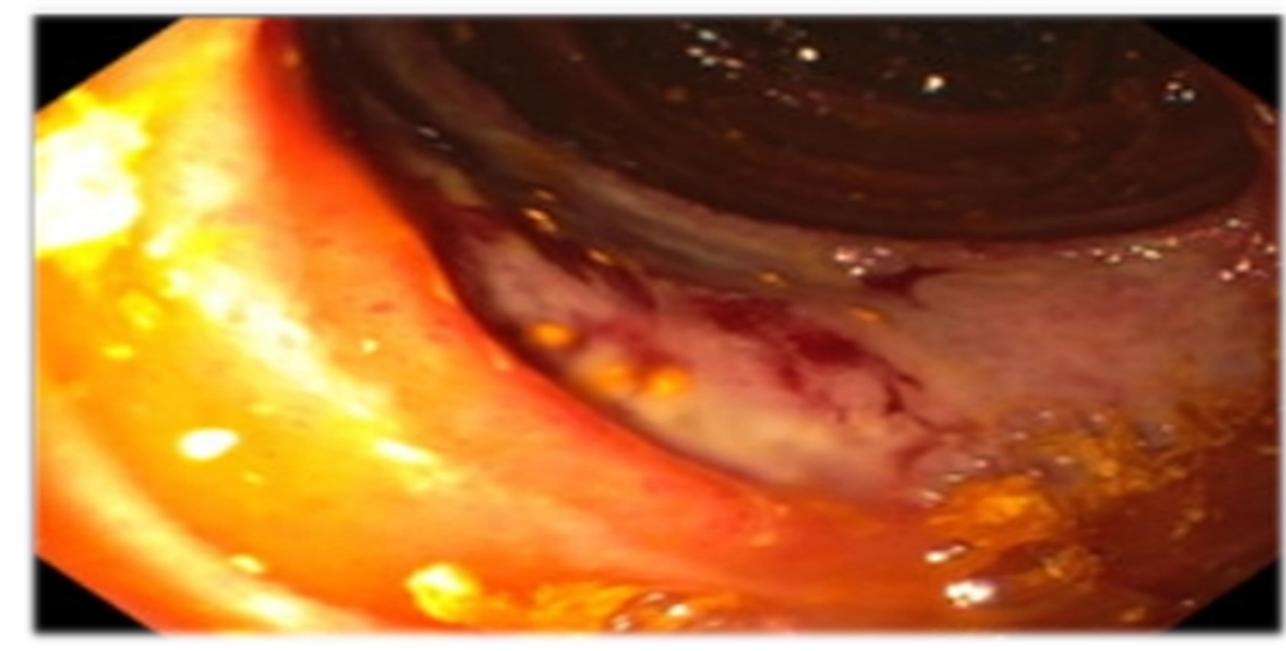
CASE PRESENTATION

- 47 year-old male with chronic inflammatory demyelinating polyneuropathy (CIDP) was admitted for autologous stem cell transplantation (ASCT).
- Initial hospitalization was complicated by neutropenic fever and C. difficile enteritis.
- Repeat admission for nausea/vomiting. Push enteroscopy revealed two circumferential deep small bowel ulcerations and a jejunal stricture. Ulcer biopsies were positive for Cytomegalovirus.
- Third admission again for intractable nausea/vomiting due to acute small bowel obstruction. Ex-lap revealed **five strictures** in the distal small bowel and **affected portion of jejunum was resected**.
- Histopathology showed necrotizing granulomatous inflammation with aseptated fungal hyphae concerning for Mucormycosis.



Mucosal ulceration with underlying necrotizing granulomatous inflammation with non-septated fungal hyphae present





Circumferential ulcerations seen in jejunum on push enteroscopy.

DISCUSSION

- The most common presentation of Mucormycosis is a rhino-orbital-cerebral infection. Gastrointestinal infection is rare and estimated to occur in around 7% of all Mucormycosis cases and carries mortality as high as 85%.
- Our patient had a history of refractory CIDP. He underwent chemotherapy for ASCT that was complicated by development of C. difficile and CMV gastrointestinal infections and small bowel obstruction necessitating exploratory laparoscopy for surgical resection.
- Although invasive GI Mucormycosis is rare, in severely immunocompromised patients with unexplained gastrointestinal symptoms and multiple risk factors as presented in our patient, this infectious organism should be considered in the differential.