

COLLEGE OF MEDICINE TUCSON Department of Medicine

Introduction

- Dieulafoy's lesions (DLs) are a rare cause of gastrointestinal (GI) bleeding, accounting for an estimated 2% of all acute GI bleeding cases [1]
- DLs are often found in the stomach and esophag with rectal DLs being uncommon and only accounting for ~2% of reported DLs [2]

Case Presentation

- A 75 year old male in the ICU developed massive hematochezia
- At time of GI consultation, patient was hypotensi to 81/43 mmHg and the rectal examination demonstrated a significant amount of bright red blood
- Laboratory results showed a hemoglobin drop from 13.8 g/dL to 8.4 g/dL over four days despite four units of packed red blood cells transfused inbetween
- Computed tomography angiogram suggested contrast pooling/bleeding, with no definite source identified (Figure 1)

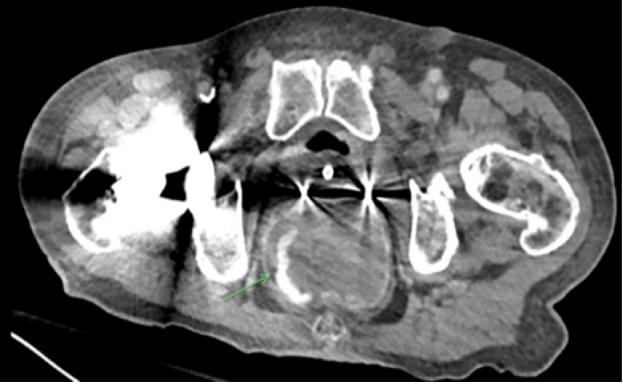


Figure 1. Increased density material within the rectum suggesting of contrast pooling/bleed.

Rectal Dieulafoy's lesion presenting as massive hematochezia with a characteristic endoscopic appearance

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Colonoscopy Results

- On examination of the rectum, a blood clot with a small visit point of mucosal attachment was noted without any apparent ulcerations or erosions of the surrounding mucosa (Figure 2a, 2b)
- Epinephrine was injected at the periphery of the blood clot, which was subsequently removed with a snare and revealed a raised nipple-like artery suggestive of a rectal DL (Figure 3a)
- A hemostatic clip was placed as a secondary modality for hemostasis (Figure 3b)

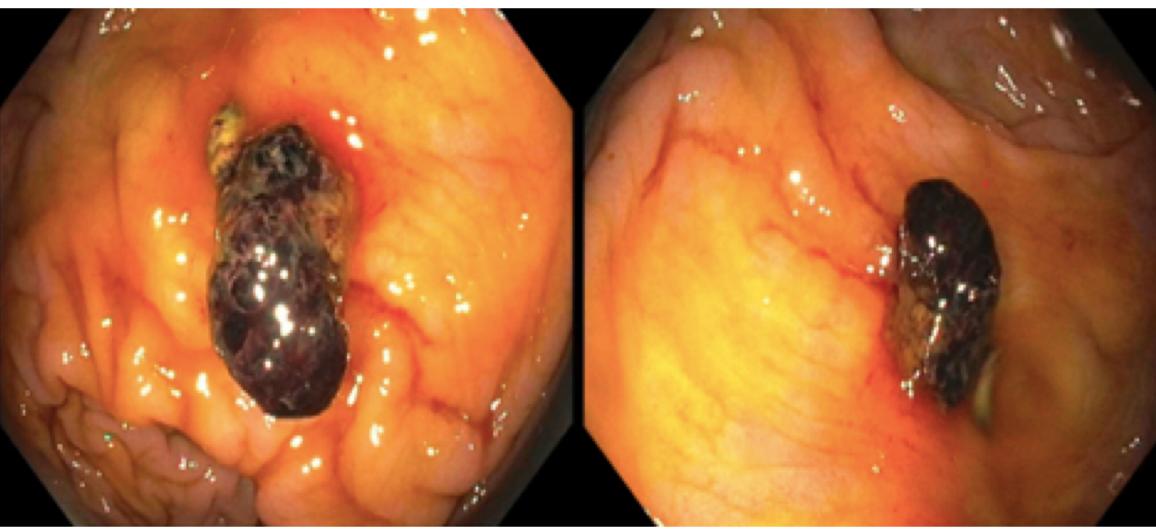


Figure 2. Adherent blood clot with a point of mucosal attachment

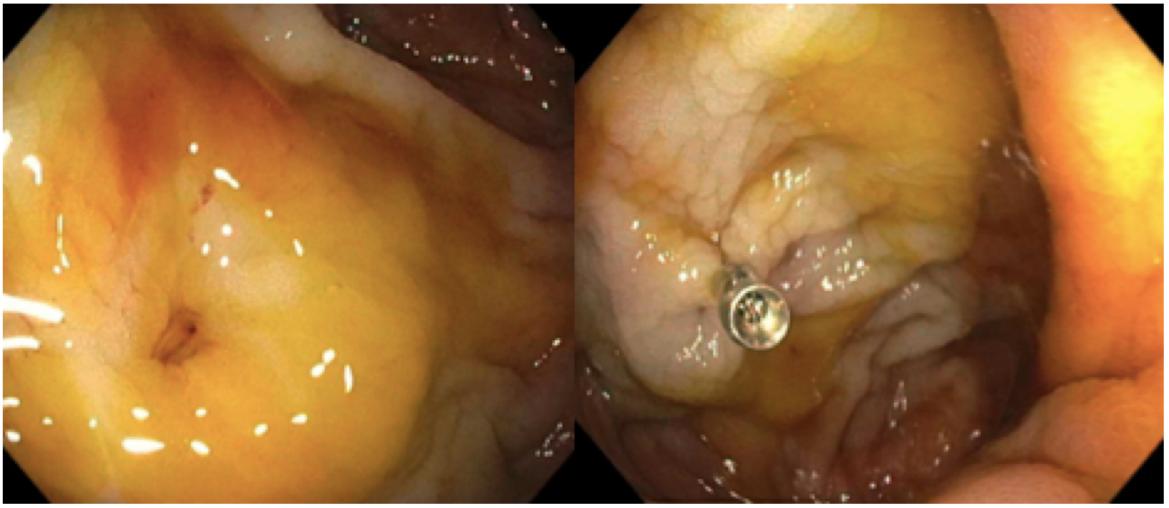


Figure 3a: Successful removal of adherent clot after hemostasis with epinephrine injection (4 ml of 1:10000). Figure 3b: Successful placement of a hemostatic clip.

References

1. Baxter M, Aly EH. Dieulafoy's lesion: current trends in diagnosis and management. Ann R Coll Surg Engl. 2010;92(7):548-554. 2. Lee YT, Walmsley RS, Leong RW, Sung JJ. Dieulafoy's lesion. Gastrointest Endosc. 2003;58(2):236-243. 3. Stark ME, Gostout CJ, Balm RK. Clinical features and endoscopic management of Dieulafoy's disease. Gastrointest Endosc. 1992;38(5):545-550.

4. Inayat F, Hussain A, Yahya S, et al. Rectal Dieulafoy's lesion: a comprehensive review of patient characteristics, presentation patterns, diagnosis, management, and clinical outcomes. Transl Gastroenterol Hepatol. 2022;7:10. Published 2022 Jan 25.

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- DLs are most commonly found in the stomach, with rectal DLs representing a rare occurrence [1]

- Band ligation and hemostatic clips have demonstrated superior primary hemostasis [4]



Discussion

- DLs are a rare but important cause of GI bleeding due to the severity of bleeding it often induces if left untreated
- Endoscopic criteria for diagnosis of DLs are as follows:
 - 1. Active arterial oozing or intermittent, micro-pulsatile
 - bleeding from a minor (<3mm) mucosal defect, with no
 - ulceration or erosion of the surrounding mucosa
 - Visual evidence of a raised nipple-like artery
 - An adherent blood clot with a tiny visible point of mucosal attachment [3]
- Treatment has been described with
- electrocoagulation, epinephrine injection,
- sclerotherapy, band ligation, and vessel clipping [4]

Conclusions

- Due to the intermittent nature of the bleeding and the minimal mucosal defect, diagnostic evaluations remain limited
- Physicians should maintain a high suspicion index for rectal DLs
- Once identified, these lesions can be successfully treated with 2 modalities of hemostasis