

Challenge A Diverticular Bleeding

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Q Introduction

Colonic diverticular bleeding is the most common cause of acute LGI bleeding. Colonoscopy is recommended as the initial diagnostic modality. Although, the detection rate of the bleeding is variable as it is a challenging diagnosis

Case Description

A 67 yo Man with a history of hypertension and diabetes mellitus, presented to our emergency department with 4 episodes of painless hematochezia of 1 day duration. The patient was hemodynamically unstable. Initial hemoglobin 12.5 g/dL dropped to 7.9 g/dL. A computed tomography (CT) scan showed intraluminal active arterial extravasation in the proximal transverse colon with scattered colonic diverticula. After IV resuscitation and blood transfusions, a selective and subselective angiography of the celiac axis and the superior mesenteric artery showed no evidence of active hemorrhage. Subsequent colonoscopy using a CF-HQ190L with an attached cap was performed, after oral preparation with 4L of polyethylene glycol 3350. Multiple diverticula with medium openings were seen in the whole colon. Diverticula were washed and examined very carefully. One diverticulum in the transverse colon was noted with a visible clot. *The base of the diverticulum was injected with epinephrine 1/10000 which inverted the diverticulum and exposed the culprit vessel. 3 endoclips were applied with successful hemostasis*. The patient was followed and showed no recurrent hemorrhage. A repeat non-contrast CT showed the clips at the site of previous active extravasation

Discussion

Colonic diverticular bleeding accounts for 20.8 to 41.6% of LGI bleeding. After resuscitation, colonoscopy is recommended as an initial diagnostic modality. Although the detection rate of the bleeding varies from 6% to 42%. Detecting stigmata of recent bleeding is challenging, but improved if performing the colonoscopy urgently, within 24 h, with oral lavage solutions, by expert endoscopists who have performed > 1,000 colonoscopies, and with the use of disposable distal attachments and water-jet systems. Therapeutic endoscopic options include clipping, epinephrine injection, band ligation or conservative management. Injecting the diverticulum with saline with or without epinephrine will invert the diverticulum and expose the inside including a clot or visible vessel and make hemostasis easier. This represents a new technique in diverticular bleeding control



