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EDITORIAL

Rectal varices vs hemorrhoids-diagnosis and management

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Abstract

Rectal varices are an uncommon manifestation of portal hypertension. Although hemorrhoids can be seen in cirrhotic patients, distinguishing between rectal varices and hemorrhoids can be challenging. Furthermore, the underlying mechanism and treatment options vary. Hence, the correct identification is of utmost important. Through this letter, we highlight the features of both and listed the distinguishing points between the two etiologies.

Key Words: Rectal varices; Hemorrhoids; Portal hypertension; Cirrhosis; Bleeding; Pain

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Core Tip: Distinguishing rectal varices from hemorrhoids is crucial, as the treatment approaches for each condition differ. Therefore, timely referral to a gastroenterologist is of paramount importance.

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INTRODUCTION

Portal hypertension is a major complication of chronic liver disease and can lead to the development of ascites, hepatic encephalopathy, esophageal varices, or hepatorenal syndrome[1]. The normal hepatic venous pressure gradient ranges between 1 to 5 mmHg; however, when it exceeds 10 mmHg, it is termed clinically significant portal hypertension. While the esophagus is the most common location of varices, ectopic varices can occur throughout the gastrointestinal (GI) tract, though they account for

Table 1 Classification of internal hemorrhoids			
Grade	Hemorrhoid characteristics		
I	Bulging into the anal canal but do not prolapse		
II	Prolapsing during defecation but reduce spontaneously		
III	Prolapsing but need manual reduction		
IV	Prolapsing but are irreducible		

less than 5% of variceal bleeding cases [2]. Ectopic varices are most commonly found in the duodenal bulb, with colorectal varices being relatively rare[3]. The clinical presentation of these varices depends on their location and may manifest as hematemesis, hematochezia, or obscure GI bleeding[3].

RECTAL VARICES

The first citation of rectal varices goes back to 1954. Rectal varices comprise less than 5% cases of variceal-related bleeding in the Western world[4]. They signify dilated portosystemic shunting between the inferior mesenteric system and the internal iliac system[5]. These can occur in both cirrhotic and non-cirrhotic patients[5]. Endoscopy remains the mainstay of diagnosis, while ultrasound doppler or endoscopic ultrasound can also be utilized[6]. Management is challenging due to both the difficulty of identification and the complexity of controlling the bleeding[7]. Initial treatment mirrors that of other variceal bleeds, focusing on hemodynamic stabilization, antibiotic administration, and the use of vasoactive agents [8]. This usually involves the use of sigmoidoscopy with injection sclerotherapy and band ligation, while in refractory cases, angioemobolization or transjugular intrahepatic portosystemic shunts may be considered [8].

HEMORRHOIDS

Hemorrhoids are a common anorectal condition caused by the enlargement and displacement of anal cushions due to the destruction of their supporting structures. Various mechanisms have been proposed, with the widely accepted one being the sliding of the anal canal lining[8]. Hemorrhoids can occur either above or below the anal canal, with those above termed internal hemorrhoids and those below called external hemorrhoids[9].

They are evident in patients between the ages of 45 years and 65 years and mainly occur due to raised pressure in the hemorrhoidal plexus. Hemorrhoids occur at three main sites, which include the left lateral, right anterior, and right posterior. While venous drainage is via the hemorrhoidal vein into the iliac veins [10]. Hemorrhoids are classified into internal or external hemorrhoids based upon their location in relation to the dentate line. Internal hemorrhoids are subclassified into four grades, as shown in Table 1.

Most patients with internal hemorrhoids present with painless bleeding[9,10], while patients with external hemorrhoids present with bleeding, pain, or prolapse[11]. Treatment of hemorrhoids include high fiber diet, increased water intake, warm sitz bath along with stool softening agents[10].

CONCLUSION

Accurate identification of these overlapping conditions is crucial, as the treatment approaches vary significantly, as outlined in Table 2. We recommend early referral to a specialist or gastroenterologist when management challenges arise.

Table 2 Difference between rectal varices and hemorrhoids					
Characteristics	Rectal varices	Hemorrhoids			
Extend	Extend beyond 4 cm from anal verge	Less than 4 cm from anal verge			
Location	Rectum, anal canal	Anal canal			
Effect on digit pressure	Collapse on digital pressure				
Effect on inserting proctoscope	Do not prolapse in protoscope	Prolapse			
Management	EVBL	High fiber diet			
	Sclerotherapy	Stool softening agents			

Ang	gioembolization	Increased water intake
TIPs	s	Warm sitz bath

TIP: Transjugular intrahepatic portosystemic shunts.

FOOTNOTES

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REFERENCES

- Simonetto DA, Liu M, Kamath PS. Portal Hypertension and Related Complications: Diagnosis and Management. Mayo Clin Proc 2019; 94: 714-726 [PMID: 30947834 DOI: 10.1016/j.mayocp.2018.12.020]
- Al Khalloufi K, Laiyemo AO. Management of rectal varices in portal hypertension. World J Hepatol 2015; 7: 2992-2998 [PMID: 26730278 DOI: 10.4254/wjh.v7.i30.2992]
- Sato T, Akaike J, Toyota J, Karino Y, Ohmura T. Clinicopathological features and treatment of ectopic varices with portal hypertension. Int J 3 Hepatol 2011; 2011: 960720 [PMID: 21994879 DOI: 10.4061/2011/960720]
- 4 Sarin SK, Kumar CKN. Ectopic varices. Clin Liver Dis (Hoboken) 2012; 1: 167-172 [PMID: 31186880 DOI: 10.1002/cld.95]
- Shudo R, Yazaki Y, Sakurai S, Uenishi H, Yamada H, Sugawara K. Clinical study comparing bleeding and nonbleeding rectal varices. Endoscopy 2002; **34**: 189-194 [PMID: 11870567 DOI: 10.1055/s-2002-20289]
- Banerjee A, Shah SR, Abraham P. Rectal varices in extrahepatic portal vein obstruction. Indian J Gastroenterol 2015; 34: 280 [PMID: 26007197 DOI: 10.1007/s12664-015-0567-2]
- Wiechowska-Kozlowska A, Białek A, Milkiewicz P. Prevalence of 'deep' rectal varices in patients with cirrhosis: an EUS-based study. Liver Int 2009; 29: 1202-1205 [PMID: 19508616 DOI: 10.1111/j.1478-3231.2009.02047.x]
- Al-Warqi A, Kassamali RH, Khader M, Elmagdoub A, Barah A. Managing Recurrent Rectal Variceal Bleeding Secondary to Portal 8 Hypertension With Liquid Embolics. Cureus 2022; 14: e21614 [PMID: 35233302 DOI: 10.7759/cureus.21614]
- Mott T, Latimer K, Edwards C. Hemorrhoids: Diagnosis and Treatment Options. Am Fam Physician 2018; 97: 172-179 [PMID: 29431977] 9
- Fontem RF, Eyvazzadeh D. Internal Hemorrhoid. 2023 Jul 31. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan- [PMID: 30725867]
- Lawrence A, McLaren ER. External Hemorrhoid. 2023 Aug 8. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 11 Jan- [PMID: 29763185]

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