Colonic varices, usually detected by means of colonoscopy, are extremely rare and typically indicative of portal hypertension or chronic hepatopathology. Even more rare are those cases with no underlying disease, or idiopathic colonic varices. The authors report a case of these unexplained varices found during colonoscopy of a 30-year-old man with a 10-year history of diarrhea and occasional bloody stool. A thorough workup was performed, revealing no underlying abnormalities for his varices. Additionally, the authors review the literature of this rare diagnosis. Physicians must rule out hepatic, vascular, and cardiac causes before classifying a case of varices as idiopathic.

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Colonic varices are a source of rectal bleeding in which attempts should always be made to find an underlying etiologic pattern. Physicians should rule out a hepatic cause—including portal hypertension, fibrosis, cirrhosis, necrosis, and thrombosis, as well as vascular anomalies and cardiac conditions—before classifying a case of varices as idiopathic.

Idiopathic colonic varices are extremely rare, with 38 cases reported in the literature, to our knowledge. Bright red blood in the rectum with or without pain is often the presenting sign. Typical etiologic factors of a colonic varix are liver disease with portal hypertension or portal or mesenteric thrombosis. Less common causes are vascular malformations, heart failure, and abdominal adhesions. When these causes have been ruled out, the colonic varices are considered idiopathic. In the present report, we describe a case of idiopathic colonic varices.

Report of Case

A 30-year-old man presented to a community emergency department because of intense abdominal discomfort, distention, and diarrhea. His past medical history was notable for a 10-year history of chronic diarrhea, bloating, occasional bloody stool, and no family history of gastrointestinal disease or complications. A computed tomographic (CT) scan of the abdomen revealed a possible partial obstruction in the terminal ileum. The patient was discharged to home with analgesics and instructed to follow up with a gastroenterologist.

Five days later, the patient presented to our office with continued mild to moderate abdominal discomfort and diarrhea. Family history, social history, and physical examination findings were unremarkable. After a review of the CT scan, which showed...
fusely increased echogenicity consistent with diffuse fatty change. A core liver biopsy was ordered to investigate a hepatic etiologic process in the varices.

Six weeks after initial presentation, an upper endoscopy was performed and revealed no esophageal varices or signs of venous congestion.

At 8 weeks from initial presentation, the core liver biopsy was performed and confirmed mild to moderate steatosis but no significant cirrhosis, necrosis, or bridging fibrosis. At the time of the biopsy, hepatic and portal vein pressure measurements were obtained and revealed a mean right atrial pressure of 10 mm Hg, a mean free hepatic vein pressure of 10 mm Hg, and a mean wedged hepatic vein pressure of 11 mm Hg. These measurements yield a hepatic vein pressure gradient of 1 mm Hg (normal, 1-5 mm Hg) and allowed us to rule out hepatic outflow obstruction and portal hypertension.

At the completion of the 8-week visit, the patient had already experienced a moderate improvement of symptoms, with 2 soft bowel movements per day and no associated pain. After an extensive workup, no clear explanation for his colonic varices emerged. We continue to follow up this patient for possible recurrence and monitor for signs of liver disease.

Figure 1.
Colonoscopic images of varices revealed markedly dilated, tortuous veins that were appreciated throughout the colon of a 30-year-old man with abdominal discomfort and diarrhea.
cases of colonic varices and found 66% of instances distributed along the inferior mesenteric vein, 26% along that of the superior mesenteric vein, and 8% throughout the colon. Adding in the present case, there are currently 26 of 39 cases (67%) of documented idiopathic colonic varices that involved the entire colon.

There have been several cases of colonic varices without portal hypertension in which an alternate etiologic process was identified. Three instances of vascular malformations leading to colonic varices,\textsuperscript{35-37} with 2 including a hereditary component,\textsuperscript{35,36} have been documented. At least 15 cases of idiopathic colonic varices in the literature have a familial component.\textsuperscript{12,14,19,22,28,29,31} Our patient, however, has no family history of gastrointestinal disease or complications.

Adhesions have been documented as a cause of colonic varices without portal hypertension,\textsuperscript{38} but the varices were localized to an area of the colon in the vicinity of the site of the adhesion. The varices in our patient were throughout the colon and rectum and do not follow the localized profile that would be expected with adhesions.

Congestive heart failure has also been implicated in colonic varices.\textsuperscript{33} This condition can lead to venous congestion, such as that seen in colonic varices. Nevertheless, our patient showed no signs of venous congestion anywhere else in the body and no indications of heart disease.

**Conclusion**

Idiopathic colonic varices generally manifest with active, or a history of, rectal bleeding.\textsuperscript{4} In cases of idiopathic colonic varices with multiple recurrences or refractory bleeding, surgical colectomy may be considered. However, in many patients, including ours, conservative management was indicated.

**References**

CASE REPORT


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