

Life-threatening gastrointestinal bleeding in Klippel–Trenaunay syndrome

A 28-year-old Hispanic man was brought to the hospital by emergency medical services after several hours of passing bright red blood per rectum. He complained of feeling dizzy and at the emergency center, he continued to pass a large amount of bright red blood per rectum. On admission his hemoglobin was 6.0g/dL. He had a similar episode of bleeding at age 16, which stopped spontaneously and no further investigation was done at that time. On examination, he had extensive varicose veins and hypertrophy of the left lower extremity (▶ Fig. 1). He reported that these varicose veins were first noticed in early infancy. Colonoscopy showed extensive varicosities with bluish discoloration throughout the rectum and sigmoid colon (▶ Fig. 2) and large hemorrhoids. He had emergent hemorrhoidectomy to control bleeding. Based on the physical examination findings, he was diagnosed as having Klippel–Trenaunay syndrome (KTS). At 2-year follow-up, he continues to do well without any further episodes of bleeding.

KTS is a rare congenital disorder with variable clinical presentation related to malformations of blood and lymph vessels, and disturbed growth of bone and soft tissue. It is usually characterized by a triad of a localized vascular nevus, congenital or early infantile varicosities on the same body part, and hypertrophy of tissues on that body part [1]. Life-threatening gastrointestinal bleeding due to diffuse cavernous hemangiomas has been reported in an estimated 1%–12.5% of KTS cases [2]. The most common site of involvement is the rectum or rectosigmoid colon [2]. However, involvement of esophagus, stomach, and small intestine has also been reported [2]. Radiological investigations and endoscopy complement each other in assessing the colorectal involvement in KTS and in identifying the specific bleeding site [3]. Gastrointestinal bleeding in KTS can be life threatening; thus, awareness of this rare condition can facilitate appropriate management.

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Fig. 1 Extensive varicose veins (unilateral) in left lower extremity of a 28-year-old Hispanic man passing bright red blood per rectum.

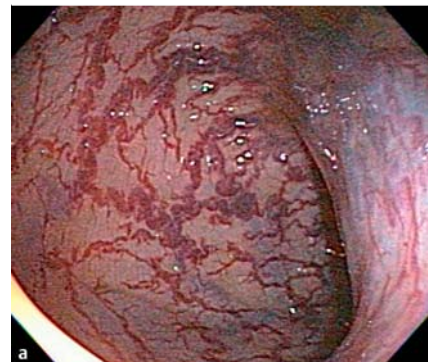


Fig. 2 Extensive varicosities with bluish discoloration in **a** rectum and **b** rectosigmoid colon.