Downhill Esophageal Variceal Bleeding Complicating a Superior Vena Cava Syndrome in Behcet’s Disease: Another Case Report of a Rare Situation
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Abstract: Superior vena cava (SVC) thrombosis, a possible complication of Behcet disease (BD), can lead to the development of venous collaterals in the upper esophagus known as downhill esophageal varices (DEV). It is a rare condition, and bleeding from this varices, although rarer, can be life threatening. Presently describe is a case of a 25-year-old male patient with five years history of vasculo Behçet, presenting a SVC syndrome with upper gastrointestinal bleeding (GIB) consequent to the UEV.

Keywords: Behcet’s disease, SVC syndrome, Down-hill esophageal varices, upper gastrointestinal bleeding.

INTRODUCTION
“Downhill” esophageal varices (DEV) are less common than the distal esophageal varices, also known as the uphill type (UEV), mostly seen in patients with portal hypertension. This is a little known condition, mostly described as a consequence of secondary obstruction or compression of the superior vena cava (SVC), bypassed via the azygus vein [1]. Bleeding from the DEV happens rarely, accounting for 0.1% of patients present with hematemesis [2]. This occlusion can be caused by compressive masses such as lung cancers, mediastinal and thyroid tumors or mediastinal lymphadenopathy [2, 3].

CASE REPORT
A 25 year old male patient was admitted to the hospital with sudden onset hematemesis with no abdominal pain of three days progression. He had a five years history of BD. The diagnosis was based on recurrent bilateral aphthosis and pseudofolliculitis. An internal jugular vein thrombosis was present at the time of the diagnosis. No other involvements (eyes, joints, nervous and cardio vascular system) were found. A combination of anticoagulant and immunosuppressive treatment (prednisolone relayed by cyclophosphamide) was initiated. There was no history of jaundice, hepatitis or familial liver disease. No past history of upper gastrointestinal bleeding was mentioned. He denied any NSAIDs use or alcohol intake. Physical examination found a pale non icteric patient, with normal vital signs. Rectal examination was positive for melena. No other abnormalities were noticed except for scares of scrotal ulcers and a chest collateral venous circulation (figure 1-2). Laboratory values on admission showed anemia (9.7 g/dL hemoglobin) with normal platelet count. The international rationalised ratio (INR) was 2.3. Anticoagulants were stopped and the patient received intravenous infusion of Somatostatine and Omeprazole. Upper gastrointestinal endoscopy, performed 9 hours after the bleeding, showed two grade II columns of proximal esophagus varices, with red color signs as stigmata of recent bleeding (figure 3). The distal part of the esophagus, the stomach and the duodenum had normal appearance and no peptic ulcer was found. Bleeding from these varices was the most likely diagnosis and variceal band ligation was performed. Four bands were deployed with excellent hemostasis. No portal hypertension due to chronic liver disease was found. Liver tests and abdominal doppler sonography were normal. Because of the underlying vasculitis, thrombosis of portal vein or hepatic veins was ruled out. To define the etiology of these varices, we performed a chest contrast –enhanced computed tomography scan. It showed a marked thrombosis of the SVC with cervicothoracic collateral circulation close to the esophagus (figure 4, 5). Anticoagulation therapy was differed; the patient remained stable and was discharged five days later without any complications or further bleeding. We managed to perform a second band ligation three weeks later. Our patient underwent a third endoscopy; varices were eradicated. Anticoagulation...
was initiated again and no bleeding occurred during the last 12 months.

DISCUSSION

The first description of DEV was made by Felson and Lessure in 1964 [4]. These varices are located in the proximal third of the esophagus as a direct consequence of the blood flow obstruction in SVC. The development of these various collateral pathways aims to bypass the SVC obstruction via the portal circulation while directing blood flow “downwards” [3-5]. Mostly seen in the upper part of the esophagus, their downward extension depends on the level and the rapidity of the obstruction and also on its duration [6-7]. We believe that the obstruction of the proximal SVC is likely to cause DEV extended to the entire length of the esophagus, at the opposite of distal obstructions above the azygous inflow, which are more likely to cause downhill varices limited to the upper esophagus [8].

DEV are related to various etiologies, with a major predominance of malignancy. It is well known now that lung cancers, mediastinal neoplasms as lymphomas, mediastinal metastases, intra thoracic goiter, thyroid carcinoma, thymoma and are common causes of DEV. Central venous catheterization and mediastinal fibrosis can also lead to this condition. Exceptionally, they can be seen in patients with systemic vasculitides as BD or hypercoagulability [4-8]. Some cases of DEV related to procedures such as pacemaker insertion or hemodialysis access have been reported [9].

To today, 80 cases of DEV have been reported in adult literature [4]. In our knowledge, thirteen cases of DEV complicating a SVC obstruction in BD have been reported, among them only five had variceal bleeding [1-3-10-11-12-13-14-15-16]. Indeed, bleeding from DEV is exceptional, accounting for less than 9% of all DEVs, and 0.1% of upper gastrointestinal bleeding [17]. Because of the rarity of the condition, there is no consensus on the treatment of DEV bleeding, as they tend to disappear with the etiological treatment. We managed to do an elastic band ligation since stigmata of recent bleeding were present on grade II varices, which seemed to be a safe and effective choice. Some authors tend to disapprove the ligation, since the weakness of the proximal esophageal posterior wall and overall lack of serosa can lead to perforation.

As said earlier, the main pillar of the treatment is to solve the condition causing the DEV, and therefore should be individualized. The management of the underlying medical condition was discussed with the
department of internal medicine in our case. As known, BD is a systemic vasculitis affecting mostly the arterial system, less frequently the venous one. It is characterized by recurrent oral and genital aphthosis and uveitis [16]. Vascularo-Beçht patients are at risk for multiple vessel-related complications including thrombosis, stenosis, occlusions, and aneurysms. The primary reason for clot for seems to be an inflammatory process in the vessel wall [18]. Venous thrombosis occurs in 25–35% of patients with BD while thrombosis of the SVC is seen in less than 2% of patients with BD [19, 20]. In our case, our patient was on prior anticoagulation therapy. Although the INR was in the optimal therapeutic range, we tend to believe that it might have facilitated variceal bleeding. The use of anticoagulant itself is controversial in BD thrombosis, knowing that it is adherent to the vessel and the risk of pulmonary embolism is negligent. The management of angio-Beçht is controversial, including mostly corticosteroids and immunosuppressive treatments. The combination of immunosuppressive and anticoagulation therapies does not do better than immunosuppression alone.

REFERENCES

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