CASE DESCRIPTION

We present a case of a 53-year-old man, admitted to the Emergency Department (ED) for a one-week history of dyspnea and non-productive cough. He had a history of Parkinson’s disease and recent diagnosis of HIV-1 infection (subtype B) and syphilis. He reported unprotected heterosexual relationships with several partners. After evaluation at ED he was hospitalized due to new onset normochromic normocytic anemia (hemoglobin: 7.8 g/dl), acute kidney injury (serum creatinine of 1.27 mg/dL and urea of 73 mg/dL) and respiratory failure, assuming probable opportunistic pulmonary infection. Upon admission, immunovirological staging was performed: CD4 + T cell count of 124/µL (21%), HIV-1 viral load of 368,000 copies/mL and HLA-B5701 negative. The diagnosis of pneumonia due to parainfluenza virus 1 and 3 was made and non-invasive ventilatory support was provided. During hospitalization he presented with multiple infectious complications. Introduction of ART with lamivudine, abacavir and dolutegravir was only possible after clinical stabilization and opportunistic infection were excluded.

Meanwhile, the main active problem was persistent pancytopenia (with minimum hemoglobin values of 5.8 g/dL) requiring transfusion support. The laboratorial study was notable for ferropenia (29 mg/dL) and oligoclonal peak gamma protein electrophoresis, but with negative urine or serum immunofixation. There was no identification of lytic or blast lesion on the X-ray of the skull and axial skeleton. Abdominal-pelvic CT scan showed hepatosplenomegaly, ganglia without intra-abdominal pathological volumetric criteria. In bone biopsy, myelogram with moderate plasmacytosis and sterile myeloculture were observed. These findings supported the diagnostic impression of a hyperreactive bone marrow in the context of HIV infection, rather than the hypothesis of lymphoproliferative disease.

In the meantime he presented melena. An upper digestive endoscopy was performed showing compatible petechial lesions resulting from pancytopenia. Total colonoscopy identified sigmoid polyp, histology of tubular adenoma with low-grade dysplasia. In capsule enteroscopy we observed from the distal duodenum, hyperemic macules, some with an eroded center and hypertrophic-looking edges extending from the distal duodenum to the ileon. Lesions are very numerous up to the proximal / middle jejunum, decreasing in frequency distally, being scarce in the ileon.

ABSTRACT

Gastrointestinal bleeding related to Kaposi’s Sarcoma is rare in AIDS patients; the etiology of anemia is usually multifactorial. We describe the case of a HIV infected, 53 year old patient with refractory anemia requiring frequent transfusion support. He was a patient with multiple complications and recent introduction of drugs that could justify myelosuppression and anemia. Due to inconclusive endoscopic examinations, the appearance of melena was the clue of the investigation, which concluded in the diagnosis of duodenal Kaposi’s Sarcoma.

Keywords: Anemia; Sarcoma de Kaposi; VIH-SIDA; Hemorragia digestive alta.

Palabras clave: Anemia; Kaposi’s sarcoma; HIV-AIDS; Upper gastrointestinal bleeding.

Correspondencia: anacfrferreira@gmail.com

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Fig. 1 (panel A and panel B) - Videocentroscopy: Hyperemic macules, some with an eroded center and hypertrophic-looking edges extending from the distal duodenum to the ileon. Lesions are very numerous up to the proximal / middle jejunum, decreasing in frequency distally, being scarce in the ileon.
Fig. 2 (panel A and panel B) - Upper Digestive Endoscopy: Hyperemic macules located in the duodenum, with variable dimensions (3 to 8mm), some eroded and with hypertrophic edges.

**DISCUSSION**

Upper gastrointestinal bleeding (UGB) is a common entity with an estimated annual incidence of 40 to 150 cases per 100,000 individuals1. KS is an extremely rare cause of UGB2. Despite decades of research, its etiopathogenesis remains unclear and is found in association with the HHV-8 infection2-6. Clinically, it is manifested by nodular vascular lesions that affect the skin surface, mucous membranes and/or viscera5. Visceral involvement is common in AIDS-related KS but is often asymptomatic. The clinical data regarding the visceral presentation of KS is limited to case reports and series, mostly with concomitant skin lesions5. In our literature review there was no documented Gastrointestinal SK presentation with merely duodenum involvement.

Gastrointestinal SK (GISK) diagnosis depends on endoscopic examinations, however the findings may be nonspecific and biopsies should be obtained. The presence of HHV-8 is required and immunohistochemical testing is recommended for all lesions with spindle cell morphology. The therapeutic approach depends on the KS variant and is individualized to the patient’s profile and the extent of the disease. Among patients with visceral involvement, the combination of ART with systemic chemotherapy showed favorable results, with reduced associated morbidity and mortality rates. Liposomal doxorubicin is the chemotherapeutic agent of choice6.

Some specialists support the use of endoscopic examinations in selected patients, with the main objectives of early detection and institution of survival improvement therapy. Recent retrospective studies suggest that low CD4 + T lymphocyte counts (less than 100 cells / µL), men who have sex with men, and the presence of cutaneous KS are predictive factors for GIKS2,5,9.

We highlight a case of a heterosexual man presenting with symptomatic anemia and without the clue of typical skin lesion. Persistent investigation enabled us to report this unusual localization of gastrointestinal SK. Therefore, it is important to maintain a broad differential diagnosis for anemia in HIV-infected individuals and to remember that atypical presentations are possible.

**REFERENCES**


