

Case study

KAPOSI'S SARCOMA OF TONSILS

Abstract

Introduction: -Kaposi's sarcoma is a common malignancy in HIV patients. The ENT manifestation of Kaposi's sarcoma is rare and constitutes a factor of poor prognosis. It is a mesenchymal proliferative process of cells of the blood and lymphatic systems, which is induced by viral growth factors, human herpes virus type 8 (HHV8). It is a common tumor in HIV immunocompromised patients.

Case presentation: -Tonsil localization is rare, reporting to us the case of a patient for Behcet's disease undergoing immunosuppressive treatment presenting with a tonsillar manifestation of Kaposi's sarcoma unrelated to HIV immunosuppressive treatment is associated with an increased risk of Kaposi's sarcoma management of these tumors is difficult insofar as immunosuppression must be continued in order to prevent the occurrence of rejection.

Clinical Discussion: - The KS incidence in the general population is 1 case per 100,000 inhabitants. Localization of Kaposi's sarcoma is rare in the, Only 4 cases are reported in the literature. Treatment for Kaposi's sarcomas is based on radiotherapy, chemotherapy, surgery and interferons. Surgery is the reference treatment in the case of a small tumour, in a single location, within the same organ, without lymph node involvement.

Conclusion: -Isolated Kaposi's sarcoma of the tonsil is very rare and can simulate benign or malignant lesions, in accordance with data from the literature. Symptoms vary according to the seat and volume of the lesion.

Keywords: TONSILAR LODGE, KAPOSI SARCOMA.

Introduction

This work has been reported in line with the scarce criteria [1]. Kaposi's sarcoma (KS) described at the end of the 19th century by a Hungarian dermatologist practicing in Vienna (Austria), Moritz Kaposi, was a rare condition; it experienced a resurgence with the advent of the HIV/AIDS infection pandemic. It is a malignant tumor of endothelial origin linked to infection with the human herpes virus 8 (HHV8) belonging to the Gammaherpesviridae family. It is the most common malignancy in human immunodeficiency virus (HIV) seropositive subjects [1]. It is a multifocal proliferative condition that can be subdivided into 4 clinical presentations: classic KS, endemic KS (African), iatrogenic KS (associated with immunosuppression/transplantation) and epidemic KS (HIV-related). The location of the Kaposi's sarcoma is rare in the oropharynx and cases affecting only the palatine tonsil are exceptional and generally found in HIV-infected patients [2]. We report the case of a 43-year-old woman with tonsillar Kaposi sarcoma not associated with HIV.

Presentation of case

A 43-year-old patient, with only pathological history of Behcet's disease, for which the patient has been followed in the internal medicine department for 8 years, treated with several courses of corticosteroid therapy and immunosuppressants, and who consulted for discomfort pharyngeal lateralized especially on the left, evolving for 3 years without improvement under medical treatment, she presented neither odynophagia nor reflex otalgia, the general state was preserved with stable weight. The clinical examination revealed a suspicious-looking ulcero-budding mass in the left tonsillar compartment; an magnetic resonance imaging of the tonsillar was requested, objectifying the presence of a wellcircumscribed, lobulated, budding mass limited to the left palatine tonsil, massively gaining contrast during injection times, adjacent muscles.

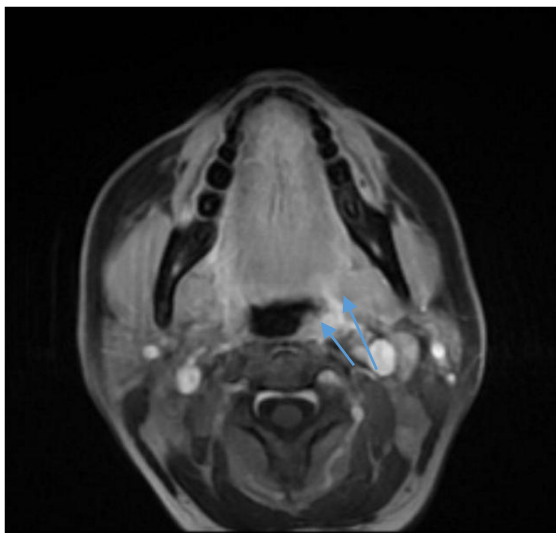


FIGURE 1: MRI in axial sections with sequences T2 turbo-spin-echo sequence with fat saturation. Showing a wellcircumscribed, lobulated budding mass, limited to the left palatine tonsil (arrow), massively gaining contrast during injection times, without invasion of the adjacent muscle structures.

A biopsy was performed under local anesthesia which could not characterize the atypical cells found on histological examination, another biopsy was performed under general anesthesia avoiding ulcerated areas with histological examination; a found a densely cellular subepithelial tumor consisting of spindle cells with numerous slit-like spaces containing erythrocytes; some ectatic vessels are present at the edge of the lesion (Figure 2A). Spindle-shaped tumor cells (400 × H&E) with mild cytological atypia form slit-shaped vascular spaces filled with erythrocytes; some tumor cells contain intracytoplasmic eosinophilic hyaline globules (arrow) characteristic of KS (Figure 2B), aspect compatible with an amygdala localization of isolated Kaposi's sarcoma, without other associated secondary localization after a meticulous ENT examination, and without associated satellite adenopathies, a locoregional and remote extension

assessment was carried out. The computed tomography examination of the facial bone did not show any tumoral infiltration of the surrounding soft structures or underlying bone lysis or condensation. The general extension assessment was negative. The blood test for anti-HIV 1 and anti-HIV 2 antibodies was negative. Tumor infiltration of surrounding soft structures or underlying bone lysis or condensation. The general extension assessment was negative. The blood test for anti-HIV 1 and anti-HIV 2 antibodies was negative. Tumor infiltration of surrounding soft structures or underlying bone lysis or condensation. The general extension assessment was negative and the tumor was classified as T2N0M0. The blood test for anti-HIV 1 and anti-HIV 2 antibodies was negative.

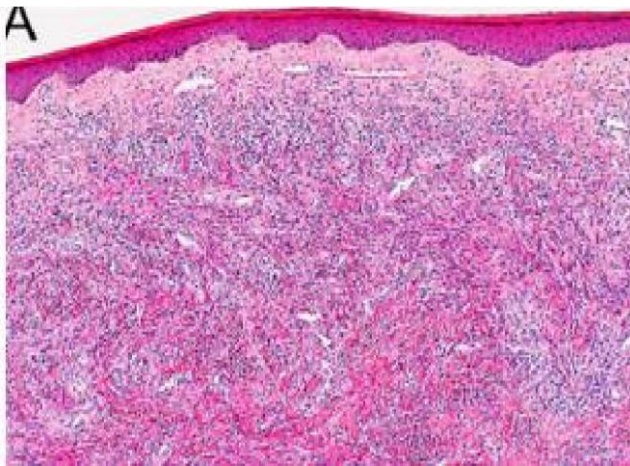


Figure 2A: Spindle cells with many slit-like spaces containing erythrocytes, with some ectatic vessels.

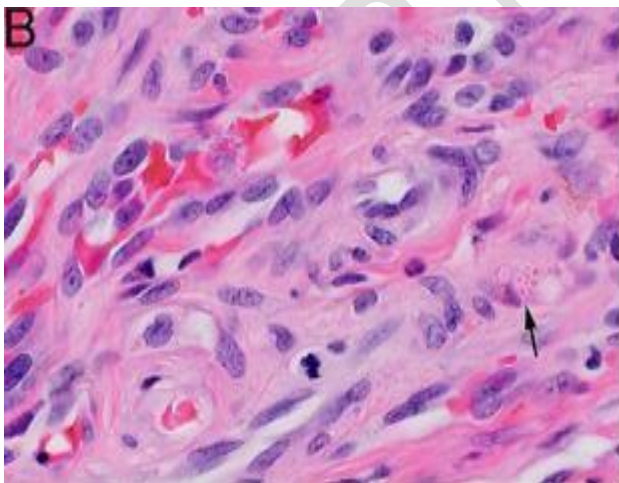


Figure 2B: Spindle cell proliferation (400 × H&E) with the presence of some tumor cells contain intracytoplasmic eosinophilic hyaline globules (arrow); characteristic of Kaposi syndrome.

As soon as the diagnosis has been known, a protocol for substitution of treatment with an immunosuppressant with little nephrotoxicity and which above all has an anti-tumor and anti-proliferative action. The patient was presented at the multidisciplinary oncology consultation meeting, and it was decided to perform a tonsillectomy with radiotherapy. The evolution was favorable with no signs of clinical or scannographic recurrence or the appearance of other tumor localizations. , the patient was considered in remission.

Discussion

Kaposi's sarcoma is a malignant tumor commonly associated with HIV infection. With an incidence estimated at 1/100,000 in the HIV - population, against 1/20 in the HIV+ population. Localization of Kaposi's sarcoma is rare in the oropharynx and cases only affecting the palatine tonsil are exceptional in HIV- patients. Only 4 cases are reported in the literature [15, 16]. In 2011, Ozbudak et al. reported the case of an HIV patient with micro-invasive carcinoma and Kaposi's sarcoma in the tonsillar associated with another location of Kaposi's sarcoma in the lower third of the esophagus [17]. In all reported cases, Herpes virus 8 was found in large quantities by immunostaining. This virus is also found in large quantities in certain types of lymphoma and rare tumors such as Castelman's disease. The presence of HHV8 can be detected by PCR or immunolabeling method [18]. Human herpes virus 8 (HHV8) was discovered. It belongs to the family Herpesviridae, the subfamily Gammaherpesvirinae and the genus Rhadinovirus. It is considered the causative agent of all forms of Kaposi's sarcoma: classic, endemic, iatrogenic and epidemic [8]. Indeed, HHV8 codes for different genes likely to lead to a deregulation of the cell cycle, stimulate angiogenesis and inhibit apoptosis potentially involved in the pathophysiology of KS [9]. SKPT may be due to reactivation of HHV8 in a patient already infected with the virus before starting immunosuppressive therapy. Reactivation of HHV8 appears to be the predominant mechanism in the development of SKPT. Several risk factors have been reported such as ethnic origin, HHV8 seroprevalence rate in the subject's geographic area of origin, sex, age, viral or bacterial co-infections (especially tuberculosis), and finally the type and degree of immunosuppression [10, 11, 12]. Thus, the incidence of SKPT is higher in countries or ethnic groups for which the seroprevalence of HHV8 is high. Extracutaneous lesions in KS have become more common since the advent of HIV (13-10). The ENT lesions of KD are classically located in the buccal, pharyngeal and laryngeal mucous membranes (4-11). They are rarely isolated (6, 7) and may however precede the characteristic skin lesion. The most common suggestive skin lesions are represented by plaques. They are associated with nodules in 40% of cases.

Faced with any unilateral hypertrophy of a palatine tonsil, the diagnoses to be considered are: squamous cell cancer, lymphoma, an infectious pathology, and hypertrophy in the context of a systemic disease [19].

It can also be observed in the case of bacillary angiomatosis but which is only diagnosed in HIV+ patients [20]. [19].

Treatment for Kaposi's sarcoma is based on radiotherapy, chemotherapy, surgery and interferons. Surgery is the reference treatment in the case of a small tumour, in a single location, within the same organ, without lymph node involvement. Chemotherapy can be administered locally (intra-tumor injection) or systemically. Drugs that can be injected locally are Bleomycin, Cisplatin, and Vinblastine. Different drugs like Vincristine, Vinblastine, Etoposide, Bleomycin, Docetaxel and Paclitaxel can be used systemically. These treatments are reserved for locally developed and/or multiple forms of Kaposi's sarcoma [1]. In our case, the patient underwent a tonsillectomy with several radiotherapy sessions (20 sessions) with a favorable evolution, in particular no signs of recurrence or extension or appearance of other secondary localization.

Conclusion

Kaposi's disease mainly affects HIV-positive subjects and exceptional cutaneous localization is frequent but ENT localizations are exceptional, diverse and non-specific, in accordance with data from the literature. Symptoms vary according to the seat and volume of the lesion.

HIGHLIGHTS

- describe and study the case of a rare location of Kaposi's sarcoma
- highlight the role of the MRI in the assessment of the extension and the histological study to make the diagnosis
- the management varies according to the size of the tumor and the staging assessment

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