Case Report

Isolated Palpebral Tuberculosis


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1. Abstract
Tuberculosis is highly prevalent in Madagascar and virtually all the patients were infected in the course of their childhood. Cutaneous tuberculosis is a rare condition which accounts for 1% to 2% of all cases of tuberculosis. Worldwide eyelid tuberculosis is underreported in Madagascar. We report a case of 13-year-old male patient presenting a prolapsed granuloma and papillomatous lesion in external part of the right upper eyelid conjunctiva. Histopathological findings show Malpighian epithelium ulceration. The chorion was the site of granulomatous inflammatory infiltrate, epithelioid with giant cells in hematoxylin and eosin stain. There were no granulomas, caseous necrosis. The diagnosis of follicular tuberculosis is posed. An excellent response was seen with
antitubercular therapy with complete eyelid wound healing. In the face of chronic lesion of eyelid, including granuloma, ulcer as well as a swelling even a lesion mimicking a chalazion, histology is crucial to detect tuberculosis.

1. Introduction
Tuberculosis remains a public health problem in Madagascar [1]. Tuberculosis is highly prevalent in Madagascar and most patients are infected in the course of their childhood [2]. Worldwide, cutaneous TB comprises 1% to 2% of all cases of TB [3]. Cutaneous tuberculosis is a rare condition which accounts for between 0.5 and 2% of all Extrapulmonary Tuberculosis EPTB cases in developed countries [4]. Whereas eyelid tuberculosis is uncommon in Madagascar and underreported. For a period of 36 months retrospective study conducted in Fianarantsoa, 448(60.7%) cases of extrapulmonary were detected, there was no case of palpebral localisation[5]. Here in we report a case of 13-year-old male patient presenting an isolated palpebral tuberculosis.

2. Observation
A 13-year-old immunocompetent male patient presented to the hospital with chief complaints of tumefaction over left eyelid for 5 months. The patient did not complain about There was no pain nor vision loss. There was no record of tuberculosis. He was vaccinated completely. There was record of complete exeresis of the tumor located at the same place without anatomopathological finding, associated with application of corticosteroid ointment 45 days before his admission. Despite the treatment, there was a recurrence of the lesion. Ophthalmological examination revealed a red prolapsed granuloma and papillomatous lesion of dimensions 9mm x 4mm in external part of the right upper eyelid conjunctiva on eversion (Figure 1.A, 1.B).

![Figure 1A: Tuberculosis of palpebral conjunctiva](image-url)
There were no regional lymph nodes on palpation. Chest X ray finding was apparently normal. The patient sustained a complete exercises of the lesion and the operative piece was submitted for histopathology. As a result, Malpighian epithelium was ulcerated. The chorion was the site of granulomatous inflammatory infiltrat, Epithelioid with giant cells in stain, hematoxylin, and eosin stain. Granulomas, and caseous necrosis were absent (Figure 2.A, 2.B). A diagnosis of follicular tuberculosis was made.
An excellent response was seen with antitubercular therapy with complete eyelid wound healing (Figure 3)

3. Discussion
Tuberculosis is highly prevalent in Madagascar and most patients were infected in course of childhood [1]. Eyelid localization appeared to be underreported. We presented a case of 13-year-old male patient suffering from a chronic recidivating granulomatous and papillomatous lesion of the conjunctiva of right upper eyelid. The histopathology unveiled the diagnoses of follicular Tuberculosis. Several manifestations of eyelid tuberculosis have been reported. Taneja et al reported a case of 6-year-old patient presenting a chronic swelling over left eyelid for 4 months with a record of antibiotherapy that did not improve the lesion. The histopathology confirms the diagnosis. Chest X ray showed an anomaly [6]. Besides, Mittal et al observed a 17-year-old patient presenting with a
prolapsed granuloma of the lower lid of about 3 weeks’ duration mimicking a chalazion. Histopathology was not fulfilled. Inspite of, antibiotics, the wound healing was delayed. The histopathology confirmed the diagnosis of cutaneous tuberculosis at the end [7]. Our case did not present any symptome nor clinical manifestation like regional nodes and pulmonary lesion.

Although uncommon, tuberculosis also has skin manifestations, and the diagnosis is difficult to make [8]. In the face of chronic lesion of eyelid, including granuloma, ulcer as well as a swelling even a lesion mimicking a chalazion, histology is indispensable to detect tuberculosis. Malagasy ophthalmologist should be aware of the existence of this rare localization of TB, especially among children, because most people are infected in the course of their childhood in Madagascar.

4. Conclusion
In conclusion, although the incidence of cutaneous TB is rare. Through our case presentation, each ophthalmologist should be aware of the presence of eyelid tuberculosis even though it is underreported in Madagascar. In the face of suspect lesion including the chalaza, a routine histopathologic finding is of paramount importance. A research should be conducted in Madagascar to evaluate the incidence palpebral tuberculosis.

References: