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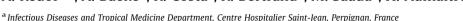
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Case illustrated

Cutaneous digital tuberculosis in immunocompetent host

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A 36-year-old man without any medical history presented with a 2 cm isolated well limited non-purulent papillomatous, ervthematous lesion on the 4th finger of the right hand evolving for 9 months (Fig. 1). He reported no trauma. The general physical examination and the hand X-ray were completely normal. The initial biopsy revealed epithelioid and giant cell granuloma without necrosis (Fig. 2) and with a negative AFB stain leading to a chronic acneiform dermatitis diagnosis. Treatment with topical corticosteroids were not effective. Second biopsy wasn't more contributive including specific bacterial and fungal culture. A third biopsy was performed looking for mycobacteria which was negative in direct examination and specific PCR but culture returned positive for multi-sensitive Mycobacterium tuberculosis after one month. The patient were totally asymptomatic for general tuberculosis symptoms. Nevertheless a chest scan was performed due to the diagnosis of cutaneous digital tuberculosis bringing to light a cavernous extensive pulmonary tuberculosis (Fig. 3). Sputa were positive on direct examination and culture for Mycobacterium tuberculosis. HIV serology and pursuit for primary immunodeficiency were negative. A classic quadritherapy was initiated with a rapid regression of the cutaneous lesion (Fig. 4). The case investigation permitted to identified 1 secondary pulmonary tuberculosis, 3 cases of latent tuberculosis, and 2 infants in the patient's entourage requiring treatment.

Tuberculosis remains a common disease affecting 10 million people a year and responsible for 1.6 million deaths in 2017 [1]. The cutaneous localization represent less than 1%, including in highly endemic regions [2]. They manifest themselves heterogeneously depending on the patient immunity, as in Hansen disease with pauci and multi bacillary forms. The diagnosis must be made in the presence of a chronic papillomatous skin lesion associated with granulomatous histology. We report here a rare form of cutaneous localization of tuberculosis [3]. This clinical case reminds us that the presentation of tuberculosis can be atypical and that its early diagnosis remains a major issue

CRediT authorship contribution statement

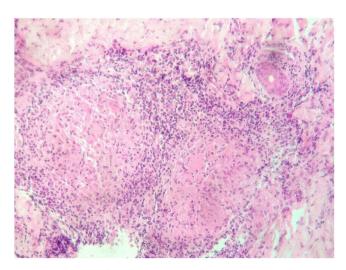
A. Redor: Conceptualization, Data curation, Funding acquisition, Investigation, Methodology, Project administration, Resources, Software, Supervision, Validation, Visualization, Writing - original draft, Writing - review & editing. **A. Baeke:** Writing - review & editing.

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Fig. 1. Cutaneous lesion at the diagnosis of tuberculosis.



 $\textbf{Fig. 2.} \ \ \textbf{Histopathology of the skin lesion with epithelioid and giant cell granuloma} \\ \ \ \textbf{without necrosis.}$



Fig. 3. Chest scan revealing extensive tuberculosis with multiple cavernous.



Fig. 4. Cutaneous lesion after 3 month of treatment.

References

[1] WHO. Global tuberculosis report. World Health Organization; 2018.

- [2] Puri N. A clinical and histopathological profile of patients with cutaneous tuberculosis. Indian J Dermatol 2011;56:550-2.
 [3] Tigoulet F, Fournier V, Caumes E. Clinical forms of the cutaneous tuberculosis. Bull Soc Pathol Exot 2003;96(5):362-7.