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<u>Attrition</u>
not detected.
<u>Sex as a biological variable</u>
not detected.
<u>Subject Demographics</u>
Age: not detected.
Weight: not detected.
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not detected.
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Cutaneous tuberculosis an unusual localization:

A case report

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Abstract:

⁹ Tuberculosis is a major public health concern. Morocco is a tuberculosis endemic country; nearly 30000 cases are recorded each year, pulmonary tuberculosis represents 57%, extrapulmonary tuberculosis 43%.

Cutaneous localization is exceptional; it represents 0.5 to 2% of cases of tuberculosis. It is very difficult to diagnose, given the variability of clinical presentation, and is based on combining clinical, radiological and biological arguments.

In this study we report a rare case of cutaneous tuberculosis occurring in a patient with history of pulmonary and cutaneous sarcoidosis, with personal history of pulmonary tuberculosis treated in 2017, presenting for a month a mass on the left thigh in the form of an abscess. The patient benefited from drainage of the skin abscess, the research of Koch's bacillus (BK) by conventional and molecular methods was positive. The diagnosis of cutaneous tuberculosis was posed, and the patient was placed on anti-bacillary.

Direct examination remains a very simple and rapid tool, it allows the search for Acid-Fast Bacilli (AFB) in the sample, its sensitivity is variable, it does not exceed 20% for extra-pulmonary samples, and the detection threshold is order of 10⁴ AFB of pathological product.

Polymerase chain reaction (PCR) using the GeneXpert MTB/RIF method offers an early diagnosis that identifies *Mycobacterium tuberculosis* DNA and the main mutations that confer rifampicin resistance to the bacteria.

⁴ Cutaneous tuberculosis is a rare entity, the polymorphism of the anatomico-clinical presentation and the multiplicity of differential diagnoses make the diagnosis difficult.

32 The present case encourages us to think about it when faced with abscessed and
33 recurrent skin lesions, especially in an endemic country like ours.

34 **Key words:** Cutaneous tuberculosis, Polymerase chain reaction, Morocco.

35 **¹Data summary:**

36 No data were reused or generated in this study.

37 **Introduction:**

38 Tuberculosis is a major public health problem. According to the World Health
39 Organization (WHO), Morocco is a tuberculosis endemic country; nearly 30000 cases are
40 recorded each year, of which pulmonary tuberculosis represents half.

41 Cutaneous localization is rare, it represents 0.5 to 2% of tuberculosis and it occupies the
42 5th place in extra-pulmonary localization [1]. Its diagnosis is very difficult given the
43 variability of the clinical presentation.

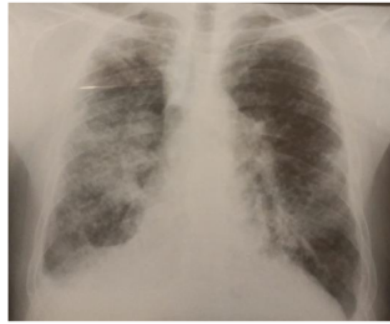
44 ¹¹In this study we report a rare case of cutaneous tuberculosis occurring in a patient with
45 history of pulmonary and cutaneous sarcoidosis.

46 **¹⁷Case report:**

47 A 42-year-old patient, living in Morocco, vaccinated at birth with Bacillus Calmette-
48 Guerin (BCG) vaccine, with a history of pulmonary sarcoidosis type III since 2007 and
49 cutaneous sarcoidosis since 2020 confirmed by a skin biopsy, under corticosteroid treatment,
50 with personal history of pulmonary tuberculosis treated in 2017, presenting for a month a
51 mass on the left thigh in the form of an abscess which led the patient to consult.

52 On clinical examination, the patient was haemodynamically stable, had neither fever
53 nor chills, and he noted the presence of chronic dry cough and dyspnea on exertion, the
54 biological assessment was unremarkable and human immunodeficiency virus (HIV) serology
55 was negative.

56 X-ray of the chest revealed the presence of nodules predominantly of the middle lobe
57 which is compatible with an old pulmonary sarcoidosis (Fig. 1).

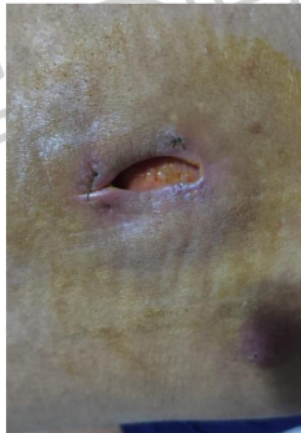


58

59 Fig.1. The result of chest X-ray revealed the presence of nodules predominantly of the middle
60 lobe.

61 The pulmonary tuberculosis was rejected in the face of the negativity of the research of
62 Koch's bacillus (BK) by conventional and molecular methods.

63 ⁸ The patient benefited from drainage of the skin abscess (Fig. 2), and the evacuated pus
64 was sent as quickly as possible to the bacteriology laboratory.

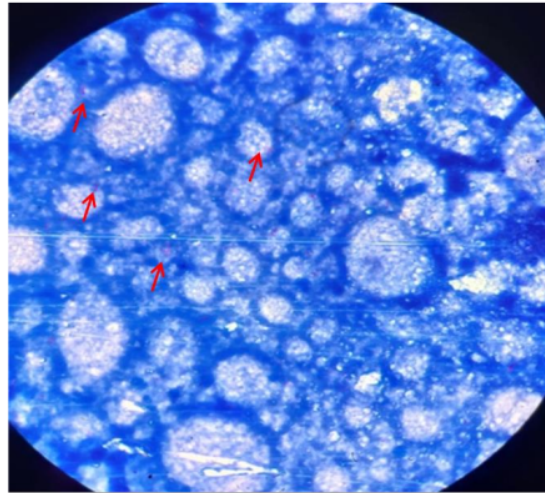


65

66 Fig. 2. After drainage: fistulized gumma on left thigh.

67 The cytobacteriological analysis of the pus showed on direct examination a significant
68 cellular reaction made up of numerous polymorphonuclear neutrophils with an absence of
69 bacterial flora.

70 Pus seeding was cultured on Columbia blood agar, on Polyvitex chocolate agar and
71 incubated ² aerobically at 37°C for 18-24 hours. As well as Schaedler agar and Columbia blood
72 agar supplemented with nalidixic acid-colistin incubated anaerobically at 37°C for 48 hours.
73 All cultures were sterile, myco-bacteriological analysis of pus on direct examination after
74 Ziehl Nelsen's staining found 1 to 10 Acid-Fast Bacilli (AFB) per field (Fig. 3).



75

76 Fig. 3. Direct examination of pus by Ziehl Nelseen's staining shows the presence of AFB
77 (Magnification 1000x).

78 A molecular study using GenExpert MTB/RIF method (Cepheid Sunnyvale, CA, United
79 States) allow the detection of the *Mycobacterium tuberculosis* complex, without resistance to
80 Rifampicin.

81 The culture on solid medium (Löwenstein Jensen (LJ)) was positive after 3 weeks. The
82 diagnosis of cutaneous tuberculosis was posed, and the patient was placed on anti-bacillary
83 quadruple therapy: Isoniazid, Rifampicin, Ethambutol and pyrazinamide for two months then
84 dual therapy for 6 months, the treatment was successful, resulting in important clinical and
85 biological evolution (Fig. 4).



86

87

Fig. 4. Lesion evolution after treatment.

88

Discussion:

89 Pulmonary tuberculosis represents 57% and extra-pulmonary tuberculosis represents
90 43% [1]. Cutaneous tuberculosis is a rare location, most often described in patients with
91 disseminated tuberculosis, particularly during infection with the human immunodeficiency
92 virus (HIV). It represents less than 2% of extra-pulmonary tuberculosis, and it occupies 5th
93 place after pleuro-pulmonary, lymph node, urogenital and digestive disorders, women are the
94 most affected by cutaneous tuberculosis with a sex ratio (0.89), the average age is 40.3 years,
95 a personal history of tuberculosis was noted in 16% of cases [2]. The reported case matches
96 these statistics, it is an immunocompromised man, aged 42 and with a history of pulmonary
97 tuberculosis.

98 The cutaneous presentations of tuberculosis are very polymorphic, their clinical
99 diversity depends on the physio pathological mechanism of contamination, and the most
100 dominant clinical aspects are scrofuloderma and gumma, according to data from the
101 Moroccan literature [2, 3].

102 The transmission of cutaneous tuberculosis can be acquired by haematogenous or
103 lymphatic spread from a pulmonary source or by direct inoculation. Exogenous infection
104 occurs by direct inoculation of bacillus into the skin of predisposed individuals (tuberculous
105 chancre, warty tuberculosis) [4]. Endogenous infection is secondary to a pre-existing primary
106 focus and can result from contiguous spread (orifacial tuberculosis, scrofuloderma),
107 haematogenous (cutaneous miliary tuberculosis, tuberculous gumma and lupus vulgaris) or
108 lymphatic (lupus vulgaris) dissemination [5]. According to Beyt's classification, tuberculous
109 gumma is classified in haematogenous tuberculosis generally occurring in
110 immunocompromised patients, the most common site of gumma is the limbs, particularly the
111 thighs and buttocks. They present as painless nodules forming cold abscesses [6, 7], which is
112 the case of our patient.

113 The subject's receptivity is essentially a function of their cellular immunity and the
114 infectious quantum [8].

115 The diagnosis is difficult and is based on a combination of clinical, radiological and
116 biological arguments. Biological diagnosis is difficult due to the paucibacillary nature of
117 extrapulmonary samples on one hand, on the other hand, the difficulty of access to the site of
118 infection [9]. Direct examination remains a very simple and rapid tool, it allows the search for
119 AFB in the sample, its sensitivity is variable, it does not exceed 20% for extra-pulmonary
120 samples, and the detection threshold is order of 10^4 AFB of pathological product [10].

121 However, mycobacterial culture remains the reference method, especially in paucibacillary
122 forms negative on direct examination; it makes it possible to determine the presence of
123 mycobacteria and their sensitivity. The growing medium of choice is Löwenstein Jensen, with
124 a growth time of 3 to 8 weeks. The sensitivity of the culture is greatly increased for lung
125 samples ranging from 80 to 85%, on the other hand it is variable for other pathological
126 products (30% for osteoarticular samples) and its specificity is of the order of 98.5% [11]. In
127 the case of our patient, direct examination of pus after Ziehl Nelsen's staining was positive,
128 and culture on Lowenstein Jensen medium was positive after 3 weeks of incubation, with
129 isolation of the *Mycobacterium tuberculosis* complex.

130 PCR using the GeneXpert MTB/RIF method offers an early diagnosis that identifies
131 *Mycobacterium tuberculosis* DNA and the main mutations that confer rifampicin resistance to
132 the bacteria [12, 13]. A study showed that the use of the GeneXpert method as a diagnostic
133 tool has a specificity of 98.7% and a sensitivity of 83.1% compared to culture [14], with a
134 high positive predictive value for the detection of resistance to rifampicin (98%) [15], the
135 reduction in sensitivity is explained by the presence of polymerase inhibitors in the samples to
136 be tested (biological fluids and biopsies) [16, 17]. This case illustrates the advantage of the
137 GeneExpert MTB/RIF method for having a rapid diagnosis.

138 The treatment of cutaneous tuberculosis is similar to pulmonary tuberculosis; it is based
139 on quadruple anti-tuberculosis therapy for 8 weeks then dual therapy for 16 weeks [18].

140 **Conclusion:**

141 Cutaneous tuberculosis is a rare entity, the polymorphism of the anatomico-clinical
142 pictures and the multiplicity of differential diagnoses make the diagnosis difficult. The present
143 case encourages us to think about it when faced with abscessed and recurrent skin lesions,
144 especially in an endemic country like ours.

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148 **Author contributions:**

149 Z.F. contributed to the initial drafting of the manuscript, while B.E, B.Y, M.A and C.M.
150 revised it. EL.M. provided final approval for the version to be published.

151 **Conflicts of interest:**

152 The authors declare that there are no conflicts of interest.

153

154 **Consent for publication:**

155 **Written informed consent was obtained from the patient to publish this report in accordance**
156 **with the journal's patient consent policy.**

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