RELATO DE CASO.-

SPONTANEOUS REGIONAL HEALING OF EXTENSIVE SKIN LESIONS IN DIFFUSE CUTANEOUS LEISHMANIASIS (DCL)

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The authors report a case of diffuse cutaneous leishmaniasis, with longstanding evolution and presenting with diffuse infiltrated lesions rich in amastigotes in the absence of mucosal involvement. In situ characterization with monoclonal antibodies revealed Leishmania amazonensis. Large regional lesions have presented spontaneous healing without specific therapy. Considering that DCL presents with a defect in the cellular immune response, this fact demonstrate that this patient may develop a regional cellular immune response enough to destroy the parasites and to produce clearing of some lesions.

Key-words: Diffuse cutaneous leishmaniasis. Spontaneous regional healing lesions. Leishmania amazonensis infection.

Diffuse cutaneous leishmaniasis (DCL) is a polar form of cutaneous leishmaniasis that in the New World is caused by Leishmania mexicana and Leishmania amazonensis. The disease is characterized by presence of disseminated nodules on the body or infiltrated plaques with only superficial and slight involvement; negative in vivo and in vitro tests for evaluation of cellular mediated immunity (CMI); a long life presence of a great quantity of parasites in lesions; high levels of specific antibodies; unresponsiveness to the usual anti-leishmanial therapy5 6. Spontaneous healing of small lesions has been referred in DCL13 4. Here we report a case of DCL presenting with extensive regional scars and atrophic skin representing spontaneous healing of some lesions.

CASE REPORT

RNMG, 7 year old male, from the state of Maranhão, admitted at the hospital in 1983 with three year history of infiltrated lesions throughout the body, that began as an infiltrated plaque in the anterior aspect of the left leg (Figure 1A), diffuse infiltration of the ears (Figure 2A) and nose, several nodules in the upper limbs. No other abnormalities were observed on physical examination. Intradermal skin testing with leishmania antigen was negative. A biopsy of the infiltrated plaque on the leg revealed epidermal atrophy. Unna's band and a heavy infiltration of vacuolated macrophages full of amastigotes. The patient was discharged before using the specific treatment by request of the family. He remained without medical care until 1991, when he was re-admitted. As this time he presented with a complete healing of the ear lesions (Figure 2B). In the anterior aspect of the left leg, in the same area of the previous lesion an extensive hypochromic scar was observed (Figura 1B). The lesions of the upper limbs remained and new others appeared on the face, right elbow, and left toe, associated with a diffuse infiltration of the upper lip. An in situ characterization using monoclonal antibodies against L. amazonensis yielded positive results. The specific blastogenesis and skin tests for leishmaniasis were negative. Serology by indirect fluorescent antibody test was positive (titer 1:2.048).
DISCUSSION

DCL is considered as an anergic form of leishmaniasis, because the tests that evaluate the CMI are always negative and the parasites proliferate undeniably. Although, Bittencourt and Freitas\(^1\), 1983 had shown that limphoplasmacytic infiltration may be present with variable frequency or absent in classical DCL. They related such differences to the stage of lesion development, and lesion aspect are
not necessarily the same in all lesions of the same patient. This is also evidenced by the spontaneously healing of some regional lesions while others persist.

Spontaneous involution of small lesions has been referred in DCL \(^1\) \(^3\) \(^4\); but in the present case lesions were extensive and disappeared leaving scars and atrophic skin. Bittencourt et al\(^2\) have shown through histological and ultrastructural studies evidence that there is a focal and limited CMI response in DCL, insufficient to control the infection but able to promote the spontaneous regression of same regional lesions. The observation of the present case indicate that cell mediated mechanisms may operate even in extensive areas of the skin in DCL.

RESUMO

Os autores relatam um caso de leishmaniose cutânea difusa, com longa evolução e presença de lesões infiltradas difusas ricas em amastigotas havendo ausência de envolvimento mucoso. A caracterização in situ com anticorpos monoclonais revelou Leishmania amazonensis. Durante a evolução de sua doença, extensas lesões regionais apresentaram cicatrização espontânea. Considerando que a LCD apresenta-se com um déficit na resposta imune celular, este fato demonstra que o paciente pode ter desenvolvido uma resposta imune celular regional capaz de destruir os parasitas e produzir cicatrização de algumas lesões.


REFERENCES