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Jorge Lobo's disease*

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Abstract: Jorge Lobo's Disease is a rare, chronic granulomatous cutaneous mycosis, which is typical of tropical and subtropical regions. It is caused by the traumatic implantation of the fungus *Lacazia loboi* into the skin and subcutaneous tissue. The disease was first described in 1931 by Jorge Lobo, in Recife (PE), Brazil. It is common in Central and South America, and predominates in the Amazon region. We report a case of Jorge Lobo's Disease, which had been initially referred as being paracoccidioidomycosis. We emphasize clinical and diagnostic features of the disease.

Keywords: Blastomycosis; Lacazia; Lobomycosis

A 47-year-old male patient, who had been living in Macapa (AP) for 10 years presented with a lesion of four years' duration in the right malar region. Physical examination revealed a keloidiform node (Figure 1). Histopathological examination evidenced a granulomatous inflammation with fungal proliferation in the dermis, which was suggestive of *Lacazia loboi* compatible with Jorge Lobo's disease (Figures 2, 3 and 4).

Jorge Lobo's Disease is a rare, chronic granulomatous cutaneous infection caused by the traumatic implantation of the fungus *Lacazia loboi* into the skin and subcutaneous tissue. The disease was first described in 1931 by the dermatologist Jorge Lobo, in Recife (PE), Brazil.¹ It is common in Central and South America, and predominates in the Amazon region.^{2,3} There are about 550 cases reported in the literature. Of these, 322 occurred in Brazil. About 90% of cases have occurred in forest workers.^{4,5}



FIGURE 1: Keloidiform nodes in the malar region of the patient's face

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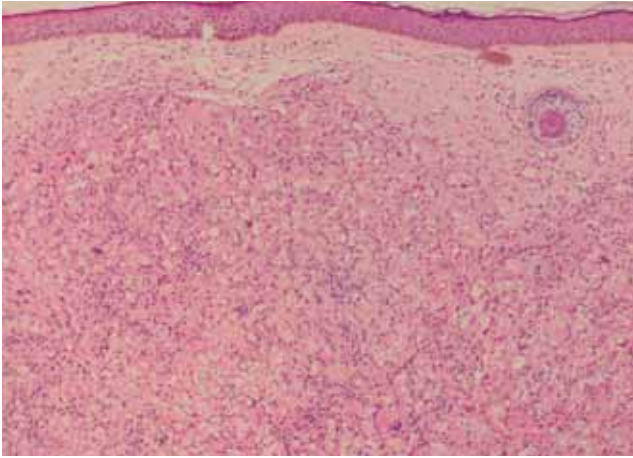


FIGURE 2: Presence of granulomatous inflammation with intense and diffuse proliferation of fungi in the papillary dermis and superficial reticular dermis, engulfed or not by histiocytes, suggesting Jorge Lobo's disease - HE 100x

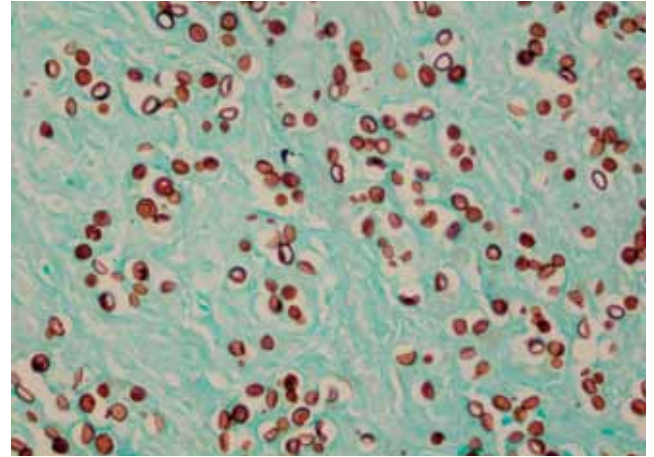


FIGURE 4: Grocott's method to show the distribution of fungi in the dermis - 400x

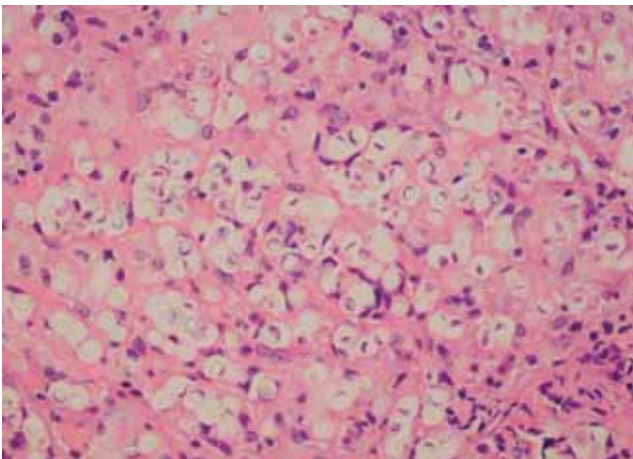


FIGURE 3: Fungi and granulomatous infiltrate in detail - HE 400x

Langerhans'-type cells and foreign body cells filled with fungi. Fungus examination shows globoid structures with thick, double-contour walls, which reproduce by simple budding. They are usually rosary-shaped or dumbbell-shaped.^{7,8,9}

Surgery is the usual conduct of choice for isolated lesions. Some studies have described the use of cryotherapy. There are no effective drugs for disseminated forms of the disease. □

Clinically, it is characterized by a large polymorphism of cutaneous lesions. Keloidiform nodes usually predominate. It primarily affects exposed areas of the skin, tending to spare mucous membranes. Local symptoms are bloating, itching and pain on palpation. It may affect the lymph nodes, but not internal organs.^{6,7}

The diagnosis is made based on anatomicopathological evidence and presence of the fungus in the skin lesion; culture is negative. Pathology shows nodular and diffuse granulomatous inflammatory infiltrate in the dermis, consisting of macrophages and numerous multinucleated

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