

## WHICH IS YOUR DIAGNOSIS?

## Case for diagnosis

## Caso para diagnóstico

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## HISTORY OF THE DISEASE

Male patient, seven-years-old, with a history of discrete pruriginous skin lesions for 18 months. Lesions first appeared on his forearms and rapidly disseminated. The patient denied the use of previous medication, comorbidities or familial history of skin lesions. Physical examination revealed small, non-scaly, smooth and shiny skin-colored papules, with 1-2 mm of diameter, affecting nearly all his skin, sparing

only nails, palmoplantar regions, mucous membranes, and part of his hair scalp (Figures 1, 2).

Histopathological evaluation showed the presence of dense lymphohistiocytic dermal infiltrate, partially surrounded by interpapillary cones, atrophic superadjacent epidermis, and parakeratosis (Figures 3 and 4). Culture was negative for acid-fast bacilli (BAAR) and fungi.



FIGURE 1: Multiple papules in the dorsum (left) and anterior trunk (right)



FIGURE 2: Skin-colored, shiny, papular lesions with 1-2 mm of diameter

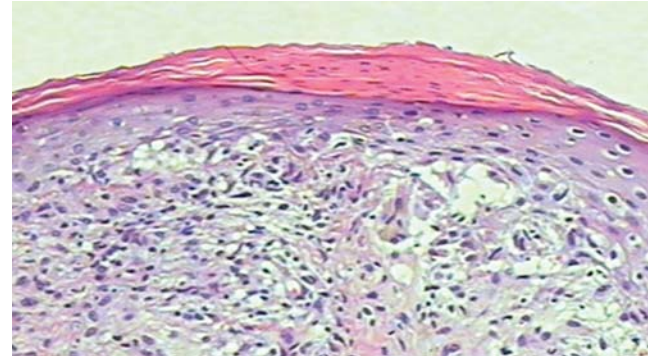


FIGURE 3: Parakeratosis, atrophic epidermis and lymphohistiocytic dermal infiltrate

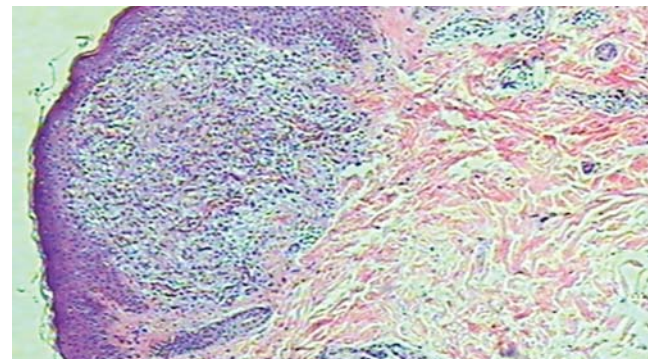


FIGURE 4: Round and sharply demarcated lymphohistiocytic dermal infiltrate, partially surrounded by interpapillary cones

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## COMMENTARIES

Described for the first time in 1901 by Pinkus<sup>1,2</sup> as a variant of lichen planus, and once treated as a tuberculosis lesion due to its granulomatous histopathologic aspect, lichen nitidus is a rare, chronic idiopathic dermatosis that affects mainly children and young adults. It is characterized by multiple circumscribed monomorphic papules, skin-colored and shiny, whose diameter varies between 1-2 mm and are often asymptomatic (some patients report pruritus). There is no predilection for sex or race and its clinical course is unpredictable. Most cases tend to spontaneously regress years after the onset of the disease. It is often localized, rarely disseminated, affects mostly the genital region, upper extremities, thorax and abdomen.<sup>1-10</sup> Occasionally, palmoplantar, oral and nail lesions (thickening, linear striations, pittings, and roughness) can be observed.<sup>5,7-10</sup> There are atypical forms of the disease, described as keratodermic, follicular, vesicular, hemorrhagic, petechiae or perforating;<sup>5,7-10</sup> Koebner's phenomenon can also be found.<sup>1,2,4,5,7</sup>

The histopathology of this dermatosis is fairly typical, described as a lymphohistiocytic dermal infiltrate, sharply demarcated and round, surrounded by hyperplastic dermal papillae (classically known as the "ball and clay" infiltrate), and parakeratosis with epidermal atrophy right above the infiltrate.<sup>1-5, 7-10</sup> Degenerative alterations of the basement layer, identical to those found in lichen planus lesions, may be

seen, but contrary to lichen planus, direct immunofluorescence on lichen nitidus does not usually reveal immunoglobulin or complement deposits.<sup>1-7</sup>

Although clinically and histologically distinct, lesions of lichen nitidus and lichen planus may coexist in the same patient (in about 30% of the cases of lichen nitidus), and the possibility that lichen nitidus is a clinical variant of lichen planus has never been completely dismissed.<sup>2,4,5,7-9</sup>

Differential diagnosis should be done especially when lichenoid-like or follicular lesions are present, with emphasis on lichen planus, lichen striatus and lichen spinulosus. The following also deserve special attention: keratosis pilaris, lichen amyloidosis, phrynoderma, follicular mucinosis, secondary amyloid syphilis, Darier's disease, pityriasis rubra pilaris, and psoriasis.<sup>2,3,5-7</sup>

Since lichen nitidus is a localized, asymptomatic disease that tends to remit, the objective of treatment in most cases is to alleviate the symptoms. The disseminated form of the disease has a more unpredictable clinical course, oftentimes longer. Currently, there is no consensus about the best treatment option.<sup>1-10</sup> In addition to antihistamines, topical and systemic corticosteroids, retinoids, cyclosporine, tuberculostatic drugs, itraconazole, dihydrochlorobenzene and ultraviolet A and B phototherapy are treatment alternatives found in the literature.<sup>1,2,4-10</sup> □

**Abstract:** Lichen nitidus is a rare dermatosis, characterized by round, skin-colored papules whose size varies between 1-2 mm and are generally asymptomatic. It does not have predilection for gender or race, affecting mainly children and young adults. Its clinical course is unpredictable, but most cases tend to spontaneously regress years after the onset of the disease. Lesions are often localized, but rare reports of disseminated disease exist.

**Keywords:** Lichen nitidus; Lichenoid eruptions; Lichens

**Resumo:** Líquen nítido é uma dermatose rara, caracterizada por pápulas arredondadas normocrômicas de diâmetro, variando entre 1-2 mm, e geralmente assintomáticas. Sem predileção por sexo ou raça, acomete, principalmente, crianças e adultos jovens, na maioria dos casos, possuindo curso clínico imprevisível e tendendo à regressão espontânea, anos após o início da doença. As lesões são em geral localizadas, mas raros relatos da doença cursando com lesões disseminadas existem.

**Palavras-chaves:** Erupções liquenoides; Líquen nítido; Líquens

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