Fibrosing Cutaneous Sarcoidosis®

Panoríasis sarcoidea fibrosante

To the Editor:

Subcutaneous sarcoidosis accounts for between 1.4% and 6% of skin lesions attributable to sarcoidosis, making it the least common subtype of specific lesion of this disease. It mainly affects white women in the fifth and sixth decades of life.1 The lesions are typically firm, round or fusiform nodules with a diameter of between 0.5 and 2 cm; they are mainly found in varying numbers on the upper limbs and are usually bilateral and asymmetric.1 Diagnosis requires histologic evidence of noncaseating granulomas in the subcutaneous tissue, without microorganisms.1

We report the case of a 78-year-old woman with intrinsic asthma diagnosed 3 years earlier who developed subcutaneous sarcoidosis with marked fibroplasia. The patient had consulted for a mass that had appeared on her left forearm a year earlier, a similar mass on her right forearm, which had appeared a month later, and a third mass, which had appeared on her right elbow 3 months before consultation. Both she and her family commented that the size of the lesions had remained stable and that they were slightly tender. The only systemic symptom she reported was occasional joint pain in her upper limbs. Physical examination revealed 2 hard nodules, one on the left forearm and one in the right cubital region, measuring 2.5 and 5 cm respectively. They were not fixed to the deeper layers and there were no visible epidermal changes. A third, similar lesion, with a stony-hard consistency and also not adherent to the deeper layers, was observed on the right forearm (Fig. 1, A and B). Biopsy of the nodule on the right elbow showed a central area of sclerotic tissue with numerous sarcoid granulomas visible in the subcutaneous tissue (Figs. 2 and 3). Also visible was a discrete lymphocytic infiltrate. There were no foci of necrosis. An ultrasound scan of the right forearm showed a well-circumscribed, nonencapsulated, oval mass measuring 4.3 × 1.2 cm, with no muscle or bone involvement; the mass was slightly hyperechogenic and contained hypoechoic areas that gave it a mottled appearance. The chest scan showed hilar enlargement, which was confirmed on high-resolution computed tomography, which also revealed a reticulonodu-
calcinos, rheumatoid nodules, metastases, tuberculosis, cellulitis, and even breast cancer.¹

While few studies have analyzed the histologic features of subcutaneous sarcoidosis, it has been suggested that it is a predominantly lobular panniculitis.³,⁴ It is therefore important to differentiate it from other forms of granulomatous lobular panniculitis such as Q fever.³ Additionally, because of its granulomatous nature, subcutaneous sarcoidosis needs to be differentiated from certain forms of granulomatous septal panniculitis (which are occasionally induced by drugs⁶-⁷ or trauma)⁸ as well as from erythema nodosum. Although this last entity is classified as a predominantly septal panniculitis, when it involves epithelioid granulomas, histology findings can resemble those seen in what has been described by some authors as granulomatous and fibrosing predominantly lobular panniculitis.⁸ Fibroplasia in subcutaneous sarcoidosis, while not mentioned in most text books, is a characteristic finding and should be expected as it tends to occur extensively in pulmonary sarcoidosis.⁹ There are several factors that distinguish subcutaneous sarcoidosis from erythema nodosum with epithelioid granulomas, the main differential diagnosis: it is predominantly lobular rather than septal, it has a larger granulomatous than fibroplastic component, the fibroplasia tends to be limited to the perigranulomatous area, there is no evidence of Miescher’s radial granulomas, and eosinophils and neutrophils are rarely seen in the inflammatory infiltrate.

It is not yet known whether the extent of fibroplasia is related to the duration of the lesions or to the intensity of the lymphocytic infiltrate,⁹ but a histologic finding of fibrosing granulomatous panniculitis may be considered to be highly specific for subcutaneous sarcoidosis.¹⁰

References

Crusted Pustular Lesions After Cryotherapy

Lesiones costrosas y pustulosas después de aplicar crioterapia

To the Editor:

We describe the case of an 84-year-old woman who consulted our dermatology department with facial actinic keratosis that had been treated with cryotherapy on several occasions. Her medical history included a gastric adenocarcinoma treated with gastrectomy over 30 years earlier.

She presented with persistent crusted pustular lesions that had appeared on her forehead (Fig. 1) 3 months earlier, following the application of liquid nitrogen. Biopsy showed multiple pustules with acute inflammation and a large number of septate hyphae measuring approximately 2 μm in diameter with dichotomous acute-angle branching (45°) (Figs. 2 and 3). Culture of one of the lesions was positive for *Aspergillus niger* and *Klebsiella oxytoca*.

A full laboratory workup showed iron-deficiency anemia but all the other results were within normal limits. There was no evidence of masses or infiltrates on the chest radiograph.

We established a diagnosis of primary cutaneous aspergillosis following cryotherapy in an immunocompetent patient. Based on the antibiogram, we initiated treatment with oral ciprofloxacin (500 mg/12 h) for 2 weeks and oral itraconazole (100 mg/12 h) for 6 weeks. At follow-up, the lesions had resolved and the culture findings were negative.

*Aspergillus* species are filamentous fungi found in humid environments or in decaying organic matter. They are among the most common fungi as they can tolerate a wide range of temperatures and produce large numbers of spores, which are easily dispersed by air. They form part of the normal outdoor flora but they also tend to enter hospital buildings through windows and ventilation systems. They can cause allergic hypersensitivity and may act as opportunistic pathogens causing local or disseminated infection.

Primary cutaneous aspergillosis is a chronic skin infection that does not appear to affect other organs. It is very uncommon as it is caused by the direct inoculation of the fungus into injured skin. It tends to affect preterm neonates and immunocompromised patients and is much rarer in immunocompetent individuals. The lesions, which are usually located at the site of inoculation, are nonspecific and include erythematous macules, pustules, plaques, and nodules that can become necrotic. The differential

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**Figure 1** Crusted pustular lesions on the forehead after cryotherapy.

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