Myxoid DFSP expresses apolipoprotein D and presents with a storiform pattern and characteristic subcutaneous infiltration. Diagnosis is confirmed by detection of the chromosomal translocation t(17;22). The differential diagnosis should include benign myxoid lesions with spindle-shaped cells (myxoid neurofibroma, superficial angiomyxoma, mucous cyst), malignant myxoid lesions with spindle-shaped cells (myxoid DFSPM, acral myxoinflammatory fibroblastic sarcoma, low-grade fibroxoid sarcoma, myxofibrosarcoma), and other acral neoplasms such as sclerosing perineurioma, periungual fibroma, digital fibrokeratoma, and cellular digital fibroma. This last entity is composed of spindle-shaped CD34-immunoreactive cells and can be distinguished from SAF as it is less myxoid and more cellular, although several authors have postulated that they are the same entity.\(^\text{1,11}\)

The treatment of choice for SAF is surgical resection with tumor-free margins.\(^\text{1,11}\) Because SAF can recur, patients should be closely monitored after surgery, particularly when, like our patient, they have involved resection margins.\(^\text{1,3}\)

In conclusion, dermatologists and dermatopathologists should include SAF in the differential diagnosis of fibrohistiocytic tumors of distal extremities. Early diagnosis and complete resection are key to preventing recurrence.

References


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Mycobacterium Chelona Infection in a Patient Being Treated With Adalimumab*\(^\text{1}\)

Infección por Mycobacterium Chelona en un paciente en tratamiento con adalimumab

To the Editor:

Mycobacterium chelonae is an atypical or nontuberculous mycobacteria belonging to the Runyon group of nonpigmented, rapidly growing mycobacteria. Infection with M chelonae takes the form of either infection of the soft tissue and bones as a result of direct inoculation (the clinical spectrum varies from localized skin abscesses to frank osteomyelitis) or a disseminated infection, usually found in the context of immunodepression. Fever, night sweats, and weight loss are the most common symptoms, and the skin lesions present as diffuse subcutaneous nodules and abscesses.\(^\text{1}\)

Adalimumab is a fully human anti-tumor necrosis factor (TNF) \(\alpha\) monoclonal antibody. TNF-\(\alpha\) plays a very important role in the regulation of immune responses against intracellular pathogens. Consequently, many of the adverse effects that could potentially lead to high morbidity and mortality in patients on anti-TNF therapy are due to lowered resistance to infection. TNF increases the phagocytic capacity of macrophages while promoting the destruction of intracellular pathogens, granuloma formation, and the sequestration of mycobacteria, thereby preventing their spread.\(^\text{2}\)

We report the case of a 76-year-old woman with a history of type 1 diabetes mellitus, hypertension, hypercholesterolemia, and seropositive rheumatoid arthritis diagnosed 20 years earlier. She had been treated with corticosteroids and methotrexate from 1992 to 2000, corticosteroids and azathioprine from 2000 to 2003, and corticosteroids and methotrexate from 2004 to 2010. She was then treated with adalimumab from 2010 to 2011 for rheumatoid arthritis. While she was on adalimumab therapy, she developed cutaneous nodule-like lesions on her hands and feet. She was treated with adalimumab for the cutaneous lesions. She continued to have cutaneous lesions, and further workup revealed the presence of a mycobacterial infection. She was treated with anti-TNF therapy, and the lesions healed.

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adalimumab from 2003 to 2009. Treatment with adalimumab had been suspended from October to December 2008 due to cytomegalovirus infection and reintroduced in January 2009.

In September 2009, she was admitted to the internal medicine department in our hospital for the assessment of an episode of hypoglycemia. When her medical history was being taken, the patient reported inflammation of the right foot, which had started a month earlier, a fistula orifice on the heel, and febrile episodes 3 to 4 times a week in the preceding months. Physical examination on admission revealed firm erythematous-violaceous plaques and nodules localized mainly on the limbs (Fig. 1), and dermatologic evaluation was therefore requested.

The most notable findings from the workup carried out were an erythrocyte sedimentation rate of 100, a rheumatoid factor of 53.5, and evidence of osteomyelitis of the first metatarsal and the calcaneus of the right foot on the scintigraphic bone scan. The other results of the blood count, biochemistry, coagulation studies, serology, and a thoracoabdominal computed tomography (CT) were normal.

Two skin biopsies were obtained, one for dermatopathology and one for microbiological analysis. Histology revealed an inflammatory mycobacterial granuloma (Fig. 2), and Ziehl staining showed Ziehl-positive bacilli distributed in groups between the inflammatory cells (Fig. 3). The other sample was smear microscopy-positive for mycobacterium and culture-positive for *M chelonae*.

On the basis of these results, a diagnosis of disseminated *M chelonae* infection was established. Treatment with intravenous imipenem 0.5 g/6 h and oral clarithromycin 500 mg/day was initiated and continued for the month the patient remained in the hospital. After discharge, treatment was continued with a regimen of oral levofloxacin 500 mg/24 hours and clarithromycin 500 mg/24 hours for a further 6 months. Fifteen days after the start of antibiotic treatment, lavage and curettage of the lesion on the right foot was performed. The bone was observed to have a granulomatous appearance, and microscopically there was evidence of chronic granulomatous osteomyelitis though staining for acid-alcohol-fast bacilli, smear microscopy, and culture were all negative.

Although the most common mycobacterial infections in patients on anti-TNF therapy are caused by *Mycobacterium tuberculosis*, atypical mycobacterial infections are increasingly being reported. This trend may be due to the fact that such patients are actively screened for *M tuberculosis* because of the reports of infection in the literature. Also relevant is the fact that the vast majority of the cases of tuberculosis reported have occurred within 3 months of starting anti-TNF therapy, a finding that suggests reactivation of latent infection, something that has not been demonstrated in the case of other mycobacterial infections.

Winthrop et al. reviewed the U.S. Food and Drug Administration MedWatch database for cases of nontuberculous mycobacterial infections in patients receiving anti-TNF therapy. They reported that the population affected had a mean age of 62 years and was predominantly female (66.65%). The underlying pathology was rheumatoid arthritis in the majority of these patients (73.70%).

Since 2002, several cases of nontuberculous or atypical mycobacterial infection have been reported in patients receiving anti-TNF therapy.

On reviewing the literature, we found the following 3 cases relating specifically to *M chelonae*: 1 reported in 2006 by Sicot et al. in a patient treated with infliximab; another
in 2008 in which Diaz et al\(^9\) described a patient treated with adalimumab for rheumatoid arthritis whose lesions developed 2 months after the start of biologic treatment; and the third reported by Adenis-Lamarre et al\(^10\) in 2009 in a patient with rheumatoid arthritis receiving adalimumab who developed skin lesions and was subsequently diagnosed with \textit{M. chelonae} infection.

Our case differs from those described above in the duration of treatment of the patient with adalimumab (6 years) because in the other cases reported, the infection developed within a few months of the start of treatment. We are also of the opinion that our patient’s osteomyelitis may also have been caused by the \textit{M. chelonae} infection, although this hypothesis could not be confirmed by histology or microbiology because the patient had already been receiving appropriate antibiotic therapy for 15 days when samples were obtained.

In conclusion, anti-TNF therapy has been associated with opportunistic infections and patients receiving such therapy should be considered to be immunosuppressed. The risk level for infection due to nontuberculous mycobacteria in these patients is not yet known. However, the frequent presence of additional risk factors, such as concomitant treatment with other immunosuppressants (corticosteroids, methotrexate) and the underlying disease itself, make it difficult to estimate the specific weight of these new drugs in the process.

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**Intense Pulsed Light Therapy for Lupus Pernio\(^\circ\)**

**Tratamiento de lupus pernio con luz pulsada intensa**

To the Editor:

Sarcoidosis is a multisystem granulomatous disease of unknown etiology that affects the skin in more than 25% of patients. Lupus pernio is the most characteristic skin feature and presents as infiltrated violaceous plaques that tend to have a symmetric distribution, mainly affecting acral areas: nose, cheeks, ears, lips, and forehead.\(^1\) Multiple treatment options are currently available, but there are refractory cases in which alternative treatments are needed.

We report the case of a 54-year-old woman with no past history of interest, diagnosed 9 years previously with cutaneous sarcoidosis based on the presence of papular, erythematous–violaceous plaques on the elbows, knees, and dorsum of the nose, with necrotizing granulomas on skin biopsy. There were no clinical manifestations in other areas and the results of additional studies were normal except for slightly elevated levels of angiotensin-convertiing enzyme. During the first 5 years she was treated with topical and intralesional corticosteroids and chloroquine leading to acceptable control of the lesions on the elbows and knees but with persistence of lesions on the nose.

Given recurrent outbreaks, in addition to local treatment with corticosteroids she subsequently received systemic treatments with hydroxychloroquine, methotrexate, and allopurinol, leading to transient and unsatisfactory results.

After the last outbreak, which mainly affected the dorsum of the nose in the form of an erythematous–violaceous plaque (Fig. 1), we decided to begin treatment with an intense pulsed light system (Photoderm-Vasculight) that provides polychromatic light in the range of 515–1200 nm.

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