Chromoblastomycosis: Response to Combination Therapy With Cryotherapy and Terbinafine

Cromomicosis. Respuesta al tratamiento combinado con crioterapia y terbinafina

To the Editor:

Chromomycosis or chromoblastomycosis is a chronic deep skin mycosis that affects the skin and subcutaneous tissue and is caused by fungi from the Dematiaceae family, which are imperfect fungi that produce pigments similar to melanin. Several species are known to cause chromoblastomycosis; all have low virulence and produce similar clinical manifestations. The most common species is Fonsecaea pedrosoi, followed by Phialophora verrucosa and Cladophialophora carrionii.1,2 Soil and plant debris are natural reservoirs for these fungi, and the common mode of transmission is traumatic inoculation whereby contaminated organic matter enters the skin through a wound.3 There is no established treatment for chromoblastomycosis but various treatment options have been attempted given the refractory nature of the condition. The choice of treatment is generally guided by clinical, mycologic, and histopathologic criteria. We describe a case of imported chromoblastomycosis, a disease rarely seen in Spain, that had been present for many years and was resolved with combination therapy.

The patient was a 50-year-old construction worker from Brazil who had been living in Catalonia, Spain for a year. He had a history of hypertension and presented with mildly pruritic and occasionally painful lesions on the arm and elbow that had been present for 20 years. The lesions had grown progressively and centrifugally and had never completely healed. The patient recalled having been injured with a nail before the lesions appeared. He had attempted treatment with several topical antifungal drugs, with no improvement. He was not on any regular medication.

Physical examination revealed indurated, erythematous, contiguous plaques with warty, crusted areas; adjacent to these plaques was a larger whitish area with a scar-like appearance (Fig. 1). The regional lymph nodes were not palpable.

Laboratory tests, including a complete blood count with white blood cell count, basic biochemical tests, liver function tests, and coagulation tests, showed no abnormalities. The erythrocyte sedimentation rate was normal. Histology showed pseudoepipitheliomatous epidermal hyperplasia and an intense inflammatory granulomatous reaction throughout the dermis with epithelioid cells, giant multinucleated cells, plasma cells, neutrophils, and occasional microabscesses. The dermis and microabscesses contained small (5-15 μm) pigmented spores with a thick wall and in some cases central septation (Fig. 2). Periodic-acid Schiff and methenamine silver stains were positive.

Bacterial and fungal cultures of biopsy specimens yielded several colonies of Stenotrophomonas maltophilia and F. pedrosoi, respectively. The mycobacterial culture was negative.

Based on the above results, we established a definitive diagnosis of cutaneous chromoblastomycosis. Topical antibiotics were administered to treat the secondary bacterial infection and the lesions were treated by curettage. The patient was also prescribed terbinafine (500 mg/12 h) and 1 month later underwent the first of 2 cryotherapy sessions.
Moreover, In pharmacologic terms, depending on whether the disease is common, serious, or rare, different treatments can be considered. Treatment of recurrent cases may require a higher dosage and longer follow-up period.

Medlar and colleagues reported a case of chromoblastomycosis treated with cryotherapy and surgery, which resulted in complete resolution of the lesion.

Chromoblastomycosis is difficult to treat because of differences in antifungal sensitivity patterns and responses among the species isolated and also because of the refractory nature of the condition, particularly in more serious clinical forms. The different treatment modalities available have not been compared in clinical settings. Recurrence is common, hence the recommendation for long-term treatments, lasting between 3 and 18 months, depending on the study. Possible complications include secondary bacterial infection with lymphadenitis and, less frequently, the development of squamous carcinoma in lesions that have been present for a very long time.

In our patient, 2 cycles of cryotherapy combined with oral terbinafine for 6 months achieved cure and caused minimal local adverse effects (hyperpigmentation and mild residual fibrosis). Recent publications confirm that combined therapies offer better results in patients with chronic chromoblastomycosis that is not amenable to surgical treatment.

References


**Lichenoid Graft-vs-Host Disease With Exclusively Cutaneous Involvement After Liver Transplant**

Enfermedad injerto contra huésped liquenoide tras trasplante hepático con afectación exclusivamente cutánea

To the Editor:

While graft-vs-host disease (GVHD) is a common complication in bone marrow transplantation, it is rare in liver transplantation, with an estimated incidence of around 1% or 2%. Since GVHD was first described in a liver-transplant recipient in 1988, approximately 80 cases have been reported and the vast majority of these have been acute cases. We present a case of chronic lichenoid GVHD in a liver-transplant recipient that presented with exclusively cutaneous involvement and mixed chimerism observed in skin but not peripheral blood samples.

The patient, a 70-year-old man, had undergone a cadaveric liver transplant for cirrhosis due to hepatitis C virus infection. The crossmatch results were negative. The HLA of the donor was *A*1 *A*68 *B*39 *B*39 DRB1*17 DRB1 *17 while that of the recipient was *A*1 *A*1 *B*35 *B*78 DRB1*13 DRB1*13. The patient was started on immunosuppressive treatment with tacrolimus and prednisone and was also prescribed ranitidine for gastric protection. On day 16 posttransplant, he developed an asymptomatic centrifugal maculopapular rash. The blood test results were normal and serology for cytomegalovirus, Epstein-Barr virus, and parvovirus B19 were negative for acute infection. A drug-induced reaction was therefore suspected and the skin biopsy findings were consistent with this hypothesis. Ranitidine was identified as the most probable cause and withdrawn; prednisone was continued.

![Figure 1](image-url)

**Figure 1** A, Erythematous violaceous lichenoid plaques covering the patient's legs. B, Detail of lichenoid plaques with a necrotic component on the dorsal aspect of the foot. C, Whitish papules arranged in a cobblestone pattern on the oral mucosa.

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