



WOUND HEALING

## LOCALIZED SCLERODERMA AFTER BURN: CASE REPORT

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**Background:** Scleroderma is a chronic skin disease, characterized by progressive fibrosis of the conjunctive tissue, of possible immunological etiology. It is a spectral disease, didactically divided in systemic form and localized form. Its development is very variable and slow. Its etiopathogen remains partially known: an initial stimuli, associated to genetic predisposition and histocompatibility antigen, would cause changes in the vascular endothelium of the small vessels. Literature describes countless external factors, such as infections, chemical products exposures, trauma and burns as associated to etiopathogenesis of the disease.

**Observation:** The present report provides a presentation of an atypical case of localized scleroderma associated with findings of previous extensive burn with fire, in a 63-year-old female patient, menopausal and obese, with brownish lesions in the right lower limb for approximately 4 years. Patient referred previous history of burn with fire involving lower left limb during childhood. She denied systemic manifestations. The search for autoantibodies was negative. On physical examination, she presented painless hyperchromic scleroatrophic plaques in the lower right limb. A pathologic examination was performed, confirming the diagnosis of scleroderma. Patient was then treated with topical corticosteroids evolving with important clinical improvement.

**Key Message:** Scleroderma is a disease of uncertain etiology, associated with the accumulation of extracellular matrix, endothelial lesion, immune cell changes and changes in collagen and mucopolysaccharides. In several cases episodes of previous trauma are observed. Given the rarity of similar cases published, we present the case of scleroderma localized after burn.

**Keywords:** Localized scleroderma; Burn; Wound healing.

