A 71-year-old woman presented with a pruritic macular rash on her chest that progressed to involve the limbs, face, and scalp. In addition, the rash was associated with progressive proximal muscle weakness that was symmetrically distributed, dysphagia, and fatigue over the past 6 months. A skin examination revealed Gottron’s and shawl signs. She underwent a skin biopsy that revealed perivascular lymphocytic infiltration and interface dermatitis. This was consistent with the diagnostic findings of dermatomyositis (DM). Moreover, electromyography was consistent with a myopathic pattern, and the muscle biopsy revealed a well-defined perifascicular distribution of muscle fiber injury with sparse collections of inflammatory cells predominantly surrounding the perimysial vessels and muscle fibers. These characteristics were diagnostic of DM (1).

Routine and serological tests revealed that both erythrocyte sedimentation rate and C-reactive protein levels were elevated. The patient was reluctant to undergo prednisone or intravenous immunoglobulin therapy, and she was administered methotrexate instead. She exhibited a good response to treatment.

Age- and risk-appropriate screening was performed, which was negative for malignancy. Interestingly, a mammogram revealed bilateral, unusual, coarse, heterogeneous, branched, and sheet-like calcifications, which were regionally distributed at the top and spanned toward the center at a posterior depth. The left side was affected to a greater extent than the right (Figure 1a, b).

Figure 1. a, b. Mediolateral oblique view (a) and craniocaudal view (b) of the mammography showing unusual, sheet-like dystrophic calcifications in the subcutaneous tissues, which are regionally distributed at the top and toward the center at a posterior depth. The left side was affected to a greater extent than the right.
Dermatomyositis is a heterogeneous disease of the connective tissue characterized by an inflammatory process involving the skin, skeletal muscles, and various connective tissues (4). Soft tissue calcifications termed "calcinosis" are common in approximately 10%-40% of patients with juvenile DM but are unusual in patients with adult-onset DM (5). Risk factors attributed to the development of calcinosis include young age and delayed diagnosis or therapy. Interestingly, the incidence of calcinosis was inversely proportional to creatinine phosphokinase levels (6). In summary, given the associated risk between DM and malignancy, physicians should be aware that this finding can occur within 4 months or up to 12 years from the onset of disease.

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