

Scleredema associated with Sjögren's syndrome*

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Abstract: Scleredema adultorum of Buschke is a rare disorder characterized by diffuse swelling and non-pitting induration of the skin usually involving the face, neck, arms and upper trunk. It has been associated with previous infectious diseases, diabetes, paraproteinemia and, more rarely, malignant neoplasms or autoimmune disorders. We report the case of a 30-year-old man who presented with a 2-year history of scleredema. Further investigation led to the diagnosis of primary Sjögren's syndrome. The association between scleredema and autoimmune disorders has been rarely seen. To our knowledge, there are no other reports describing the association between primary Sjögren's syndrome and scleredema adultorum of Buschke.

Keywords: Autoimmune diseases; Mucinoses; Scleredema adultorum

INTRODUCTION

Scleredema adultorum (SA) of Buschke is a rare disorder characterized by diffuse swelling and non-pitting induration of the skin usually involving the face, neck, arms and upper trunk.¹ Traditionally, it is classified into three types: type 1 is usually preceded by a febrile infectious episode; type 2 is associated with paraproteinemia and type 3 is associated with diabetes mellitus.² Very rare cases have been associated with malignant neoplasms or autoimmune disorders.^{3,4}

CASE REPORT

A 30-year-old man has presented with a 2-year history of progressive, diffuse, painless and non-pruritic cutaneous induration of the arms and shoulders with some functional limitation of the upper limbs. He had no medical history and no other complaints in the first consultation. On physical examination, we observed a discrete erythema and a non-pitting induration of the skin of arms, shoulders and superior dorsum (Figure 1). Differential diagnosis included

scleredema, scleromyxedema and scleroderma. A cutaneous biopsy was performed (Figure 2) and showed thickened collagen fibers separated by clear spaces filled with mucin (Figures 3 and 4). The diagnosis of SA of Buschke was assumed based on clinical and histopathological features. In subsequent consultations, we observed that the skin induration had slightly increased. Moreover, the patient experienced symmetric migratory polyarthralgias mainly involving the knees and shoulders. He had also been experiencing dry eye sensation for 5 months. He denied xerostomia, fever, fatigue, weight loss or others symptoms. Laboratory analysis revealed discrete thrombocytopenia (119 000) with otherwise normal hemoglobin, leukocytes and erythrocyte sedimentation rates and C-reactive protein values. Fasting glycemia and total serum protein were normal, as well as protein electrophoresis, urinalysis, and renal, hepatic and thyroid function. A strong positivity to anti-SSA antibodies and a positive ANA (1/1280) were immunologically detected. Anti-DNAds, anti-SSB, rheumatoid factor, ACE, An-

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FIGURE 1: Clinical appearance of the right arm.
Cutaneous induration was evident only on palpation

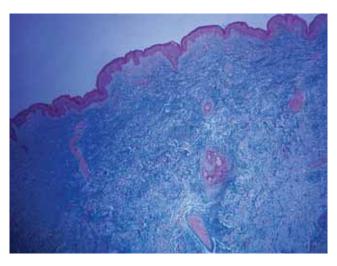
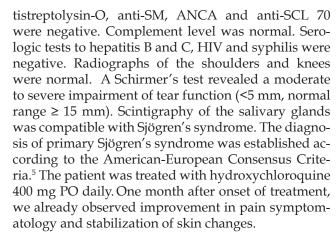


Figure 4: Thickened collagen fibers separated by mucin (alcian blue 40x)



FIGURE 2: A jelly material was identified in the skin biopsy



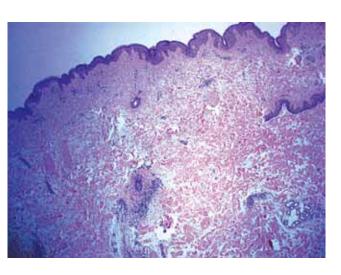


FIGURE 3: Thickened collagen fibers separated by clear spaces on the dermis (hematoxylin and eosin 40x)

DISCUSSION

SA is a rare disorder of unknown etiology which was first described by Buschke in 1900.¹ It may resolve spontaneously within 2 years or have a progressive and persistent course with potential fatal outcome.¹,² The association between autoimmune disorders and SA has been rarely seen. To our knowledge, only one report associates SA with Sjögren's syndrome, namely that of a patient with secondary Sjögren's syndrome (with concomitant rheumatoid arthritis).⁴ Our patient could possibly be the first case of SA associated with primary Sjögren's syndrome. Therefore, in addition to diabetes and dysproteinemia, this case highlights the importance of investigating other associations, specifically autoimmune disorders, ensuring its proper management and treatment. □

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