Vulval Lichen Sclerosus Associated with Vitiligo

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1. INTRODUCTION

Lichen sclerosus (LS) is an autoimmune, chronic inflammatory dermatosis with predilection for localized involvement of anogenital skin. Several lines of evidence support the hypothesis of an autoimmune basis for LS like a frequent association with autoimmune disorders. (1) We describe a 71 year-old patient with genital LS associated with vitiligo.

2. CASE REPORT

A 71-year-old woman presented to us with a 2 years history of genital pruritus. She had family history of vitiligo and thyroid disease, and personal history of vitiligo diagnosed 10 years ago. On physical examination the patient had depigmented macules on her left axillae, on her neck Fig 1) and on the pubic area consistent with vitiligo. Examination of the genital region revealed vitiligo patches on the pubis and scleroatrophic lesions on the vulva and perianal area (Fig 2). Histopathological study of a skin biopsy showed hyperkeratosis with parakeratosis, focal vacuolization of the basal layer and a dermal lichenoid infiltrate that was compatible with lichen sclerosus. Laboratory test including thyroid-stimulating hormone and autoantibodies were negative. She has been treated with pimecrolimus cream applied 2-3 times per week.

![Fig1. Vitiligo on the neck](image1)

![Fig2. Depigmented macules on the pubic area consistent with vitiligo and scleroatrophic lesions on the vulva and perianal area](image2)
3. DISCUSSION

The pathogenesis of LSA is thought to be a combination of environment and genetic factors. LS has a clear female preponderance and has two peak ages of presentation, in the prepuberal girls and boys and postmenopausal women and adult men (1). Association of LS with autoimmune diseases, especially thyroid disease, alopecia areata, morphea and pernicious anaemia, have been found (2, 3). In women, lichen sclerosus was significantly more often associated autoimmune thyroid disease, antithyroid-antibodies and elevated autoantibodies as compared to men. (2)

Vitiligo, a chronic systemic disease that mainly affects melanocytes from epidermis basal layer leading to achromatic or hypochromic patches, and LS have been reported to be highly associated with autoimmune diseases and can co-occur (4). However Attili et al (5) reviewed 266 vitiligo cases and did not find association with LS. They suggest that association of vitiligo and LS may have been documented due to the clinical misdiagnosis of vitiligoid LS lesions as vitiligo. Several mechanisms of hypopigmentation in LSA have been proposed as decreased melanin production, block in transfer of melanosomes to keratinocytes and melanocyte loss. Melanocyte loss, as consequence of a lichenoid dermatitis triggering an autoimmune reaction to melanocytes, has been proposed as pathogenic connection of documented association of LS with vitiligo.

The risk of malignancy in LS is small but if it occurs it tends to develop rapidly. Squamous cell carcinoma, and less commonly melanoma, basal cell carcinoma has been reported predominantly in patients with vulval LS (1)

In conclusion, patients with LS, especially women with LS, should be screened for other autoimmune diseases. Vitiligo must be differentiated from vitiligoid LS. Long-term follow-up is appropriate for patients with vulval LS.

REFERENCES