



EMAS clinical guide: Vulvar lichen sclerosus in peri and postmenopausal women

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ABSTRACT

Introduction: Vulvar lichen sclerosus (LS) is a chronic inflammatory disease which affects genital labial, perineal and perianal areas, producing significant discomfort and psychological distress. However there may be diagnostic delay because of late presentation and lack of recognition of symptoms.

Aims: The purpose of this clinical guide is to provide advice on early recognition and treatment.

Material and methods: Literature review and consensus of expert opinion.

Results and conclusions: The etiology of LS in peri and postmenopausal women is unknown, although autoimmune, genetic and infectious factors have been implicated. Definitive diagnosis of non-malignant disorders depends on the histology of biopsied tissue. LS associated with cellular atypia should be classified as intraepithelial neoplasia. Topical corticosteroids are the most effective treatment, although prolonged treatment may be associated with dermal atrophy. Topical calcineurin inhibitors, such as tacrolimus or pimecrolimus, may be a safe and effective alternative treatment without risk of corticosteroid-related vulvar atrophy since they do not affect collagen synthesis. LS recurrences are frequent, and can lead to significant physical discomfort and emotional distress that affect mood and sexual relationships. Anatomical changes may require surgical management.

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1. Introduction

Lichen sclerosus (LS) is a chronic progressive, non-neoplastic, epithelial atrophic disease with a marked inflammation that manifests as patchy, thinner than normal white fibrous skin. It affects more women than men, and may be found in different sites, although the most common is in the external genitalia (85–95% of cases) [1–3]. Vulvar LS has also been called lichen albus, hypoplastic dystrophy, and vulvar kraurosis. The predominant symptoms are pruritus and pain, although many women have a long asymptomatic period. Women with LS have an increased risk of squamous

cell carcinoma, and human papillomavirus infection or radiotherapy may be involved in carcinogenesis.

Vulvar LS can occur at any age but tends to have two peaks of onset: prepubertal girls and peri- or postmenopausal women [3]. Some scientific organizations have issued consensus guidelines about vulvar skin disorders and/or LS management [4–6]. The purpose of this clinical guide is to provide advice on early recognition and treatment in peri- and postmenopausal women.

2. Prevalence

While LS is a common condition, its prevalence is uncertain [3,7,8]: calculated incidences range between 1:300 and 1:1000 new patients referred to a general hospital. In general gynecological practice the rate of histologically proven LS is about 1.7% [7,9], and 54% are postmenopausal (mean age 52.6 years) and 39%

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are asymptomatic [7]. The prevalence of LS is probably underestimated since a third of cases are asymptomatic [7]. There can also be delays in seeking medical advice and a range of specialists consulted who may be unfamiliar with the condition. Common misdiagnoses includes *Candida albicans* vulvitis and postmenopausal atrophy and leading to delays of in diagnosis of up to 5 years [10].

3. Etiology

The etiology of LS remains unknown, but several mechanisms have been studied and suggest a multifactorial origin, including a genetic, auto-immune, and infectious background. Genetic predisposition to LS has been shown in family and twin studies [11,12]. Sherman et al. studied 1052 women with LS (80% histologically confirmed) using family clustering, and reported that 126 (12%) women had a positive family history of the condition [13].

There is a strong association between LS and autoimmune disease [14,15] in adults. LS-associated immune system disorders include scleroderma, Hashimoto thyroiditis, rheumatoid arthritis, psoriasis, and alopecia areata [9,14,16]. In a series of 211 patients with confirmed LS, 29.9% had thyroid disease and this was not age-dependent and higher than that reported in the general population [17].

Genital LS may coexist with morphea or local scleroderma and with systemic sclerosis. In a series of 472 patients with local scleroderma LS was more frequent as indicated by an odds ratio of 18.1 [16]. A possible association between LS and psoriasis has also been reported [9,18]. Thus, the prevalence of psoriasis in LS women (7.5%) is higher than in the general population. Oral lichen planus (LP) and vulvar LS may coexist. However, prevalence of oral LP in women with vulvar lichen sclerosis (0.6%) is similar to that reported for oral LP in the general population (1–2%) [19].

Women with LS may have other bladder, bowel and pain comorbidities. Thus in a series of 308 women with LS seen at a vulvar clinic, self-reported conditions were overactive bladder 15.3%, stress urinary incontinence 27.9%, constipation 32.5%, irritable bowel syndrome 19.5%, thyroid dysfunction 33.1%, fibromyalgia 9.1%, temporomandibular joint disorder 13.0% and vulvar pain 83.1% [20].

Infection, such as with *Borrelia burgdorferi* (BB), has been implicated but the evidence is contradictory [21,22]. The Koebner phenomenon, which is described as the occurrence of lesions at sites of injured or traumatized skin, is a well-known manifestation of LS. Thus repeated trauma and irritation to the area may actually be precipitating factors to the expression of this disease [23].

4. Clinical characteristics

Careful history taking and clinical examination are important [23]. Vulvar LS most commonly presents with progressive pruritus, dyspareunia, dysuria, or genital bleeding. It usually affects the ano-vulvar epithelium, although in 20% of patients other areas are involved such as the upper trunk, axillae, buttocks and lateral thigh. It does not affect the vagina and cervix. Initially the vulva is itchy, sore, bright and red. Hemorrhagic bullae may be also present in the genital area, which can be confused with other vulvar ulcerative disease.

After several years, the vulva becomes ivory with atrophic changes leading to loss of labia minora, burying of the clitoris, obstruction of urinary outflow, reduction of the vaginal introitus and fourchette adhesions. Chronic scratching secondary to pruritus can result in subepithelial hemorrhaging. Perianal involvement can create the classic “figure of eight” shape. Constipation and painful defecation may be a feature. LS can have a negative effect on sexual function, including dyspareunia, apareunia and difficulty to reach

orgasm. Assessment should also include investigation for autoimmune disease.

5. Histopathological diagnosis

Although LS can be diagnosed on clinical examination, histological confirmation should be sought. Biopsy should be performed of hyperkeratotic areas, erosions that do not improve with treatment or sites with altered pigmentation.

Differential diagnosis could include LP, vitiligo, immunobullous disorders such as cicatricial pemphigoid, and vulvar intraepithelial neoplasia (VIN). Squamous cell hyperplasia (SCH), which increases the risk of vulvar malignancy, may be present in acanthotic areas. Patients with lichen sclerosis have an increased risk of developing squamous cell carcinoma. Women with LS associated vulvar cancer are significantly older than women with LS alone, and SCH is independently associated with vulvar carcinoma. The duration of symptoms and loss of vulvar architecture are indicators of cancer risk [4].

6. Treatment

As there is no cure for LS, the endpoints of treatments are symptoms relief and improvement of anatomical changes. Treatments may be pharmacological or surgical, but there are few randomized trials [24,25]. Ultra-potent topical corticosteroid creams such as clobetasol propionate are the treatment of choice [5,24], with topical calcineurin inhibitors second line [6,26]. Once LS is controlled, maintenance treatment is based on the use of corticosteroids or moisturizers [27,28]. Psychosexual counseling should be discussed and offered as LS can affect sexual function [5]. Vaginal dilators may be helpful. It is generally advised to avoid bubble baths, scented soap, detergents, perfumes, etc. as these may irritate the vulva but the evidence base for this is scant.

6.1. Local corticosteroids

Clobetasol propionate cream (0.05%) significantly reduces symptoms and improves skin characteristics compared with placebo [24]. A recommended regimen for a newly diagnosed case is clobetasol propionate 0.05% ointment applied once daily, at night, for 4 weeks, then on alternate nights for 4 weeks, and then twice weekly for a further 4 weeks, before review. About 60% of patients experience complete remission of their symptoms. Others will continue to have flares and remissions; they are advised to use clobetasol propionate 0.05% as required [5].

The less potent steroid mometasone furoate (0.1% cream) is also effective [5,29]. Triamcinolone ointment has also been reported to reduce LS symptoms in a small study [30]. Intralesional injection of triamcinolone acetonide has been proposed as an alternative treatment to topical treatment of LS, but again the studies are small [31].

Pruritic LS has also been treated with topical corticosteroids or combined corticosteroid and monthly anesthetic/corticosteroid subdermal injection. In this 5-year study, time to recurrence was longer with the combined treatment, although women were less satisfied with the injections [32].

The side effects of topical corticosteroids include irritation, burning, dryness, hypopigmentation, and dermal atrophy.

6.2. Calcineurin inhibitors

Calcineurin inhibitors (CIs) are immunomodulators that block the release of inflammatory cytokines from T lymphocytes. Topical tacrolimus and pimecrolimus have been reported to be associated

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