Lichen planus of the Eyelids

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Key Words
Lichen planus
Eyelids
Differential diagnosis

Abstract
Ocular involvement of lichen planus (Lp) is a rare event. Only 10 cases with Lp of the eyelids have been reported in the literature. Ocular Lp may also affect mucosal surfaces of the eye and lead to cicatrizng conjunctivitis. Lp of the eyelids may appear as isolated lesions and in those cases diagnosis is very difficult. Lp should be considered in the differential diagnosis of all erythematous and papular eruptions of the eyelids together with lupus erythematosus, psoriasis vulgaris or contact dermatitis.

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Ocular involvement of lichen planus (Lp) is a rare event. In their series of 307 patients, Altman and Perry [1] documented only 2 cases with eyelid lesions. Vogel and James [2] found but 9 cases with Lp of the eyelids in their extensive review of the literature and they added a further patient. Ocular Lp may also affect mucosal surfaces of the eye and lead to cicatrizing
conjunctivitis responsive to topical cyclosporine eyedrops [3]. Lp of the eyelids may appear as isolated lesions and in those cases diagnosis is very difficult. Sometimes the isolated lesions are followed by a typical rash of Lp in other parts of the body as observed in our case.

Fig. 1. Typical Lp on the eyelids.

Case Report

An otherwise healthy 47-year-old patient had a 2-month history of isolated redness and slight desquamation on both eyelids. Thereafter, a generalized pruritic rash appeared with its main localization on the trunk and arms. Physical examination revealed numerous violaceous and angulated flat-topped papules distributed on the shoulders, arms, axillae and back. The oral mucosa and the genital area were unaffected. On both upper eyelids scaly papules with whitish striae were present (fig. 1). No conjunctival lesion was apparent. A biopsy specimen of an axillary lesion revealed the typical features of Lp. Complete blood count and chemistry panel including liver parameters were all normal. The patient was treated with oral etretinate, 25 mg daily, and the lesions on the eyelids disappeared completely within 6 weeks. The remainder of the Lp lesions showed marked improvement, but some active lesions were still visible.

Discussion

Lp is a relatively common papulosquamous disorder [4]. Predilection sites are the flexor surfaces, the trunk and oral or genital mucosa. However, Lp of the eyelids is a rare event (table 1). Altman and Perry [1] documented only 2 cases with eyelid lesions out of 307 patients. Vogel and James [2] found 9 cases with Lp of the eyelids in their review of the literature and they added a further patient.

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Table 1. Well-documented cases of Lp on the eyelids

Authors
Age, years
Sex
Localization of lesions

<table>
<thead>
<tr>
<th>Age</th>
<th>Sex</th>
<th>Localization of lesions</th>
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</thead>
<tbody>
<tr>
<td>m</td>
<td>f</td>
<td>initially restricted to eyelids, later also on penis</td>
</tr>
<tr>
<td>m</td>
<td>f</td>
<td>restricted to eyelids</td>
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<tr>
<td>f</td>
<td>f</td>
<td>restricted to eyelids</td>
</tr>
<tr>
<td>f</td>
<td>f</td>
<td>eyelids, neck, shoulder</td>
</tr>
<tr>
<td>m</td>
<td>f</td>
<td>right thigh, right eyelid, later on left eyelid</td>
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wrists, trunk, ankles, buccal mucosa, conjunctiva
right eyelid, conjunctiva
eyelids, left hand, later disseminated lesions including oral mucosa
initially isolated on eyelids, later trunk, arms and oral mucosa

Ocular Lp may affect the mucosa of the eye and lead to cicatrizing conjunctivitis [3]. Lp of the eyelids may occur as isolated lesions and in those cases diagnosis is very difficult. Sometimes the isolated lesions are followed by a typical rash of Lp in other parts of the body. A historical review reveals that in 1937 Touraine and Renault [7] described a 32-year-old female with Lp of the eyelids. Luhr [6] reported a male patient with Lp involving the conjunctiva and eyelid. In the newer literature a case of a woman with ocular Lp was observed by Camisa and Meisler [8] and an additional male patient was reported by Vogel and James [2]. The largest series of patients with Lp of the eyelids was documented by Michelson and Laymon [5]. These authors reported on 5 patients with Lp of the eyelids. Interestingly, all their patients were women. In their series they described three types of lesions on the eyelids: (1) typical lilac papules with whitish striae and association with similar lesions in other parts of the body, (2) annular papules often associated with similar lesions on the remainder of the body and (3) isolated Lp on the eyelids with features of erythema ab igne.

Lp should be considered in the differential diagnosis of all erythematous and papular eruptions of the eyelids together with lupus erythematosus, psoriasis vulgaris or contact dermatitis.

References