Dyshidrosiform Palmoplantar Pemphigoid in a Young Man: Response to Dapsone

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Sir,

Dyshidrosiform pemphigoid (DP) is an unusual variant of localized pemphigoid presenting with a persistent vesiculobullous eruption localized to the soles or palms or both, similar to dyshidrosiform dermatitis. This condition is rarely reported in the literature, it generally occurs in the elderly and there are no reported cases in young people. We describe here a rare case of DP that developed in a young man and was limited only to the palms and soles.

CASE REPORT

A 20-year-old man presented with recurrent and itchy vesicles localized on both palms which has developed over the previous year. The first clinical diagnosis was dyshidrosis and he was treated with topical steroids combined with oral antihistamine for 8 weeks, with a transitory improvement. Treatment with oral prednisone, 25 mg daily for 16 weeks, did not improve his skin condition, and while he was treated vesicles occurred also on his soles. On examination the patient showed multiple tense vesiculobullae of various sizes, with a base of normal or erythematous skin on the palms and soles (Fig. 1). The remaining skin was spared and the mucous membranes were normal. Nikolsky’s sign was negative. Fungal culture of the lesions was negative and the blood chemistry tests detected marked eosinophilia 16.6% (1,250/µl). Biopsy specimens from the palms and the soles showed subepidermal vesicle containing erythrocytes and rare eosinophils with a dermal inflammatory infiltrate made of lymphocytes, histiocytes and eosinophils. Direct immunofluorescence was positive for continuous linear deposition of immunoglobulin IgG and C3 at the dermo-epidermal junction (Fig. 2). Indirect immunofluorescence disclosed anti-basement membrane antibodies IgG at a titre of 1:80. An enzyme-linked immunosorbent assay (ELISA) for circulating antibodies against bullous pemphigoid antigen BP180 was positive with a titre of 50.7 U/ml (normal value: <9 U/ml). On the basis of these patterns a diagnosis of dyshidrosiform palmo-plantar pemphigoid was made. Treatment with topical steroids and dapsone 50 mg daily produced a rapid improvement. After 4 months the dapsone was tapered (25 mg daily) with a complete clinical remission, and now 12 months later, the patient is still in good condition.

DISCUSSION

DP is an unusual form of localized pemphigoid that was first described by Levine et al. in 1979 (1). The pathogenesis of localized pemphigoid is unknown. Some authors have suggested that physical agents, such as thermal burns or radiotherapy, might initiate the development of localized bullous pemphigoid (2). The diagnosis of DP may be misleading for clinicians because clinical lesions are often indistinguishable from dyshidrosiform dermatitis and the correct diagnosis has to be confirmed by immunopathological findings that reveal the typical hallmarks of BP (3). To the best of our knowledge only 21 cases of DP have been described in the literature, mainly in elderly subjects (3–8), and this is the first reported case in a young man with DP localized only to the palms and soles.

Fig. 1. Multiple vesiculobullae on palms.
In the majority of reported cases, DP is initially located on the palms and plantar skin and later involves other parts of the body. In the case described here the condition improved quickly and after one year of follow-up there was no sign of diffuse cutaneous involvement.

Topical steroids are reported to be effective as monotherapy in this condition, but usually a combination with systemic corticosteroid or dapsone is necessary to keep the disease under control. In the case described here a short course of dapsone produced a rapid remission, while systemic corticosteroids were previously ineffective.

REFERENCES