Two Cases of Lichen Planus Pigmentosus-inversus Arising from Long-standing Lichen Planus-inversus

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Lichen planus pigmentosus-inversus (LPP-inversus) is an extremely rare variant of lichen planus (LP), and only a few cases have been reported. Its course is characterized by exacerbations and remissions, and it is known to be more chronic than classical LP is. We report two cases of LPP-inversus and offer the suggestion that LPP-inversus may originate from LP of flexural areas. (Ann Dermatol (Seoul) 20(4) 254∼256, 2008)

Key Words: Lichen planus-inversus, Lichen planus pigmentosus-inversus

INTRODUCTION

Lichen planus pigmentosus-inversus (LPP-inversus) is an extremely rare variant of lichen planus (LP), and only a few cases have been reported1,2. We have already seen one patient with LPP-inversus, and that case has been published3. Recently, we saw two more cases of LPP-inversus. We report the details of those cases and offer suggestions concerning their possible origin.

CASE REPORT

The first patient was a 49-year-old woman who presented complaining of violaceous reticulated patches and scattered rice grain-sized macules localized to the left inguinal area for several months (Fig. 1A). She had no subjective symptoms, such as pruritus or pain. She had not come into contact with any chemicals, animals, or plants, nor had she been using any medications that could prompt an allergic response. Her medical and family history were non-contributory. A skin biopsy from a violaceous patch revealed irregular acanthosis, vacuolar alteration of the basal layer, and marked band-like dermal lymphocytic infiltration with pigment incontinence (Fig. 1B). These histological features suggested the presence of classic LP. Thereafter, the lesions slowly flattened and changed color to brown. Although we could not examine the flattened lesions histologically, we hypothesized that lesions of classic LP located only in intertriginous areas may have changed into LPP sometime later.

The second patient was a 25-year-old woman who complained of multiple brownish macules scattered on both axillae for one year (Fig. 2A). Recently, a solitary pigmented atrophic patch was also found on the left inner thigh (Fig. 2B). She was not symptomatic. The size of the lesions increased gradually. There were also some tiny papules around the lesions in the axilla. According to the patient, some of the papules had flattened into macular components. A skin biopsy was performed on the axillary and inner thigh lesions. The papular lesions in the axilla showed histological features consistent with classic LP (Fig. 2C). Thinning of the epidermis and pigmenitary incontinence were prominent features of the thigh lesions. These features found in the thigh lesions were consistent with LPP.

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Fig. 1. (A) Violaceous annular patches and scattered rice-grain-sized macules are seen in the left inguinal region. (B) Mild hydroptic degeneration of the basal keratinocytes and marked, band-like dermal lymphocytic infiltration with pigment incontinence are seen on histopathological examination (H&E, ×200).

Fig. 2. Several brownish-to-purplish papules and macules are located in the axillae (A) and in the right inner thigh (B). Histopathological examination of the papular lesions in the axilla shows dense, band-like, predominantly lymphocytic infiltrates in the papillary dermis and vacuolar alteration of the basal layer with some necrotic keratinocytes (C) (H&E, ×200).

**DISCUSSION**

LPP, a disease of unknown etiology, manifests as hyperpigmented, dark brown, occasionally pruritic macules and/or papules. The course of the disease is characterized by exacerbations and remissions. It is known to be more chronic than classical LP is.

With regard to the coexistence of classic LP in a number of LPP patients and the histopathological resemblance between these two disorders, many authors have suggested that LPP is a variant of LP.

However, classical LP shows a predilection for the wrist, thigh, ankle, and the dorsum of the hand, and to the best of our knowledge, there have been no reports of classical LP being confined to intertriginous areas. The two current cases and the case detailed in our previous report confirm classic LP lesions confined to skin folds, which developed LPP features over time through epidermal flattening.

Although verification of similar cases is needed in order to confirm our hypotheses, we suggest that LPP-inversus may originate from LP of flexural
Furthermore, classic LP can be located in the flexural area only, so we suggest that a new term, 'LP-inversus', be used to designate such an entity.

REFERENCES


