Lichen planus pigmentosus

Ouiame El Jouari, Ghita Senhaji, Salim Gallouj, Hanane Baybay, Fatima Zahra Mernissi

Department of Dermatology, University Hospital Hassan II, Fez, Morocco

Corresponding author: Dr. Ouiame El Jouari, E-mail: eljouariouiame@gmail.com

Sir,

Lichen planus pigmentosus is considered a rare variant of lichen planus. It occurs in both sexes but shows a female preponderance. It is characterized by acquired dark brown to gray macular pigmentation located on sun-exposed areas. The dermoscopy and histology help to confirm the diagnosis. It is a disease which is basically recalcitrant to treatment and therapies attempted in this disorder are quite ineffective.

A 54-year-old dark-skinned postmenopausal woman presented with 3 years’ history of itchy pigmented lesion of the face and lower limbs. On examination, large pigmented cupboards of the face and neckline (Fig. 1), as well as, multiple well-defined dark brown plates of varying size located on the legs (Fig. 2), were observed. Examination of the mucous membranes, nails and scalp was normal. The pull test was negative. Dermoscopy examination objectified multiples rosettes, whitish scales, and brown perifollicular hyperpigmentation (Fig. 3). A skin biopsy was performed. The histological examination showed an atrophic epidermis with hypergranulosis, band-like lymphocytic infiltrate of the upper dermis with abundant colloid bodies, and marked pigmentary incontinence. These findings were suggestive of lichen plan pigmentosus (Fig. 4). The patient was treated by topical steroids, depigmenting cream, associated to hydroxychloroquine 400 mg/day and strict photoprotection. At follow-up visits, the pigmented lesions became lighter after 9 months and the decline is 12 months.

Lichen planus pigmentosus is considered a rare variant of lichen planus [1]. It is essentially a disease of the adult starting insidiously after the age of 30. It occurs in both sexes but shows a female preponderance. It has been reported to occur predominantly in people with darker skin [2]. Pathogenesis represented by an altered cellular immune response mediated by T lymphocytes, in which CD8+ T lymphocytes recognize and attack epidermal keratinocytes, causing intense pigmentary incontinence. It is characterized by acquired dark brown to gray macular pigmentation located on sun-exposed areas of the face, neck, and flexures, commonly found in dark-skinned patients [1]. The dermoscopy

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of lichen plan pigmentosus can reveal reduction of the follicular openings, follicular hyperkeratosis, keratotic plugs, perifollicular erythema, white dots, interfollicular vessels with single loops, arborizing vessels and pigment network. Blue-grey structures in an annular or speckled pattern can also be found [3]. Erythema dyschromicum perstans is considered as the principal differential diagnosis of lichen plan pigmentosus. Other differentials are fixed drug eruption, macular amyloidosis, urticaria-pigmentosa, tar melanosis, frictional melanosis, berloque dermatitis, pigmented cosmetic dermatitis (Reihl’s melanosis), postinflammatory hyperpigmentation, and idiopathic eruptive macular pigmentation and hyperpigmentation due to drugs and heavy metals [4]. Moreover, it may be associated with other disorders such as hepatitis C virus-induced liver disease, endocrinopathies, and autoimmune diseases as well as other variants of lichen planus and its sequelae [5]. Histopathology include perifollicular hyperkeratosis, atrophy with hydric or vacuolar degeneration of the basal layer of the epidermis and scarce lymphohistiocytic or lichenoid infiltrates along the dermis, with pigmentary incontinence and the presence of melanophages [6]. Lichen plan pigmentosus is a disease which is basically recalcitrant to treatment and therapies attempted in this disorder are quite ineffective [4]. The management includes the use of topical medications such as steroids, immunomodulators, keratolytics, hydroquinone with or without retinoic acid, azelaic acid, koyic acid, glycolic acid, vitamin A, aqueous solution of 10% dimethylsulfoxide, among others, with variable results. There are favorable recent reports of the use of Nd: YAG laser, intense pulsed light and dermabrasion [3].

Consent

The examination of the patient was conducted according to the Declaration of Helsinki principles.

REFERENCES