Erythema Dyschromicum Perstans: A Case Report

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Abstract

Erythema dyschromicum perstans (EDP) or Ashy dermatosis is an uncommon pigmentary disorders which characterized with asymptomatic gray symmetric confluent macules over the body. It usually starts between first to three decades of the life and has a slow onset. This ailment can affect the palms, soles, scalp, nails and mucous membranes. Despite the definition of some etiological factors, the exact etiology of EDP is not clear. In this paper, we present a 24 years old patient with EDP.

Introduction

Ashy dermatosis is an uncommon dermatosis which has unknown etiology [1,2]. There is no accord on the description of EDP and some different terms like EDP, ashy dermatosis, lichen planus pigmentosus and idiopathic eruptive macular pigmentation have being used interchangeably in the literature for this dermatosis [3].

Case Report

A 24 year old woman with type III phototype complexion presented with numerous asymptomatic slate-grey macules on her trunk and back with a 6 year history. Firstly, the lesions had started right side of trunk and new lesions seemed increasingly to involve other areas of trunk and back (Figure 1). There were no identifiable triggers or associated family history. She had no known family history of skin or autoimmune disease either. At the physical examination we noticed brown-grey coloured pigmented macules and patches on the trunk and back. Some of the lesions appeared on her back were encircled by an erythematous halo and had a little elevated borders. The lesions were scaly and also she had mild pruritus on the lesional areas. Histopathological findings of biopsy specimen from trunk showed mild hyperkeratosis, melanocytic hyperplasia at the basement membrane and perivascular lymphocytic infiltrate with melanophages in dermis (Figure 2). Pityriasis rosea was ruled out by reason of spongiosis absence. The patient was diagnosed as EDP with clinical and histopathological findings. Routine laboratory tests including glucose, liver enzymes, thyroid hormones, complete blood count, were normal and Antinuclear antibody (ANA) test was negative. She was treated with narrowband ultraviolet B therapy three times a week for 12 weeks. Topical mometasone furoate and emollients were also added to the therapy. After this 12 weeks period, a betterment of the erythematous violaceous component of lesions was noticed.

Discussion

Erythema Dyschromicum Perstans (EDP) or Ashy dermatosis is an uncommon acquired and chronic dermatosis, characterized by asymptomatic and progressive hyperpigmented oval, polycyclic macules of various size on the trunk, face and extremities. These brown-grey macules sometimes show erythematous borders [4,5]. Although the etiology of EDP is unclear there are some probable genetic factors related by genes located in the major histocompatibility complex region [6]. There are also some predisposing triggers that have been proposed, such as drugs (antibiotics, benzodiazepines, pesticides), endocrinopathies or HIV and hepatitis like infectious conditions.

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conditions [7-9]. In this case there wasn’t any triggers neither medical history nor laboratory findings [10]. The differential diagnosis includes pigmented lichen planus, idiopathic eruptive macular pigmentation, postinflammatory hyperpigmentation and Addison disease. Pigmented lichen planus is the main considered differential diagnosis of EDP. Lesions are usually characterized by bright violaceous-purple, flat, solid papules and often crossed by whitish lines (called as Wickham striae). Lichen planus often involves mucous membranes by some different types and is related with mild pruritus, neither symptoms were present in our patient. Idiopathic eruptive macular pigmentation would be another differential condition, however it presents typically with asymptomatic brownish nonconfluent lesions that involve the face, trunk and proximal extremities in children and adolescents [11]. We excluded postinflammatory hyperpigmentation and Addison disease as a result of examination findings and the anamnesis. Treatment of EDP include topical and systemic steroids, hydroquinone, dapsone, retinoids, griseofulvin, ascorbic acid, chloroquine, estrogens, progesterone, chemical peels, phototherapy, laser therapy, keratolytics, clofazimine and nbUVB phototherapy [10,12].

In fact, nbUVB phototherapy decreases peripheral NK cell activity, lymphocyte proliferation, cytokine production as IL-2, IFN-g and IL-10 [13,14]. NbUVB phototherapy stimulates pigment production and hides the dermal pigmentation [13,14]. In our case we used nbUVB phototherapy 3 times a weekly.

References