Case Report

Generalized Lichen Nitidustreated With Tacrolimus

Rajashekar T S, Rajendra Okade
Department of Dermatology,
Sri DevarajUrsMedical College, Kolar

ABSTRACT

Lichen nitidus is a rare chronic condition of unknown etiology, usually asymptomatic, characterized by the presence of multiple, tiny, discrete, shiny, flesh colored, flat papules 2-3 mm in diameter. Lichen nitidus classically involves the genitalia, upper extremities, chest and abdomen; in rare instances, it may become generalized. We report a case of generalized lichen nitidus treated with tacrolimus.

INTRODUCTION

Lichen nitidus is an uncommon chronic condition of unknown etiology, usually asymptomatic, characterized by the presence of multiple, tiny, discrete, shiny, flesh coloured, flat papules 2-3 mm in diameter. Lichen nitidus classically involves the genitalia, upper extremities, chest and abdomen; in rare instances, it may become generalized. Many rare clinical variants of lichen nitidus have been described, generalized form is one of them.\(^{[1,2,3]}\) We report a case of generalized lichen nitidus treated with tacrolimus.

CASE REPORT

A seven year old male child presented with non-pruritic, generalized cutaneous eruption of six months duration. Cutaneous examination revealed multiple, asymptomatic, discrete, 1-2 mm, skin-coloured, shiny, flat papules over chest, abdomen, back, nape of the neck and upper extremities (Fig-1). Multiple foci of koebnerization were seen over trunk (Fig-2). Oral mucosa, nails, palms and soles were spared. The child did not have any associated systemic complaints. The laboratory tests were normal. A skin biopsy was performed and was consistent with that of lichen nitidus showing granulomatous lymphohistiocytic infiltrate in an expanded dermal papilla with thinning of overlying epidermis and downward extension of the rete ridges at the lateral margin of the infiltrate, producing a typical "claw clutching a ball" picture (Fig-3). Initially patient was treated with topical mometasone cream for a period of 8 weeks with no clinical improvement and was hence considered for NBUVB therapy for which the patient was not compliant.

DISCUSSION

Multiple clinical variants of lichen nitidus have been described, including keratodermic, vesicular, hemorrhagic, purpuric,
perforating, palmoplantar and generalized forms. The disorder is most often localized and only a few cases of generalized lichen nitidus have been reported. Generalized lichen nitidus is a rare subtype of lichen nitidus characterized by multiple, skin-colored, shiny, dome-shaped papules occurring over the entire body. Lichen nitidus is usually asymptomatic and resolves without any sequelae, hence no treatment is required in most cases. However, the clinical course of generalized lichen nitidus is unpredictable with majority of patients experiencing spontaneous resolution several years after the onset of disease. Systemic and topical corticosteroids, dinitrochlorobenzene, diphenylcyclopropenone immunotherapy, astemizole, itraconazole, isoniazid, psoralens and ultraviolet A (PUVA) and narrow band ultraviolet B (NB-UVB) phototherapy have all been tried in its treatment, with PUVA, NB-UVB and astemizole being especially useful for generalized forms. Treatment of lichen nitidus with tacrolimus 0.1 percent and generalized variant with pimecrolimus cream have been reported. The topical calcineurin inhibitors tacrolimus and pimecrolimus have an effect on various cells of the cutaneous immune system.
system, specifically on T cells, by inhibiting the phosphatase calcineurin and preventing the transcription of proinflammatory cytokines.\textsuperscript{8}

We report a case of generalized lichen nitidus that improved but did not completely clear with application of tacrolimus 0.03% ointment for three months.

REFERENCES


Source of Support: Nil \hspace{1cm} Conflict of Interest: Nil