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papules which evolve into annular and serpiginous plaques that have slightly raised borders. The centre of the plaque may show hypopigmentation or atrophic changes or both. These are found most commonly over the sun-exposed areas but can be seen over sun-protected areas as well. The other clinical variants include a pure papular form with absence of centrifugal annular lesions and those with reticular, brown to livid, partly atrophic skin lesions.^[1,2] The etiopathogenesis of this condition is not clear. It is thought that ultraviolet radiation, heat or other unknown factors transform the antigenicity of the elastic fibers thus inducing a cellular immune response.^[3] The condition usually follows a chronic course, although cases of spontaneous remission have been described. The treatment remains a challenge and several therapeutic modalities have been tried. These include topical, intralesional and systemic steroids, clofazimine, cryotherapy, dapsone, cyclosporine A, methotrexate, psoralen plus ultraviolet A therapy, narrowband ultraviolet B therapy, retinoids, fumaric acid esters, antimalarials, topical calcineurin inhibitors and tranilast alone or in combination with pimecrolimus.^[1-5] We report a case of annular elastolytic giant cell granuloma successfully treated with topical pimecrolimus.

A 63-year-old man with complained of two gradually increasing mildly itchy, annular plaques over the right parietal and occipital scalp for 4 months. The lesion over the parietal scalp appeared first and measured 11 cm in diameter while the other appeared a month later and was 4 cm wide. On examination, these annular plaques had slightly raised, brownish, serpiginous borders and a hypopigmented atrophic center [Figure 1a and b]. There were no other skin or mucosal lesions. Skin biopsy revealed a non-palisading granulomatous infiltrate in the upper dermis with many multinucleated giant cells and signs of elastophagocytosis [Figure 2a and b]. Van Gieson special staining revealed loss of elastic fibers in the areas of granulomatous infiltrate [Figure 2c]. On the basis of clinical and histopathological data, a diagnosis of annular elastolytic giant cell granuloma was made. The patient was treated with pimecrolimus 1% cream twice daily. The lesions resolved with residual atrophy after 3 weeks after which we stopped therapy [Figure 1c and d]. There was no recurrence at follow up two months later.

The treatment of annular elastolytic giant cell granuloma is empirical as there is no standard therapy for this chronic disorder. Limited areas of involvement are treated topically, usually with corticosteroids. However

Annular elastolytic giant cell granuloma treated with topical pimecrolimus

Sir,

Annular elastolytic giant cell granuloma is a rare granulomatous skin disease characterized by loss of elastic fibers along with elastophagocytosis by multinucleated giant cells. It clinically presents as small

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Figure 1: Sharply demarcated annular plaques with slightly raised, brownish, serpiginous borders and hypopigmented, atrophic center localized over the, (a) occipital and, (b) right parietal areas of the scalp at the first visit and, (c and d) after 3 weeks of therapy with topical pimecrolimus



Figure 2: (a) Non palisading granulomatous infiltrate composed predominantly of multinucleated giant cells located in upper reticular dermis (H and E, ×40), (b) magnified view of multinucleated giant cells with signs of elastophagocytosis (H and E, ×200), (c) loss of elastic fibers in the areas of granulomatous infiltrates (Van Gieson staining, ×40)

prolonged treatment with topical steroids is not always effective and leads to cutaneous atrophy, a finding often already present in this condition.^[1] Other topical therapies include the calcineurin inhibitors tacrolimus and pimecrolimus.^[1,3] However, the efficacy of pimecrolimus has been demonstrated only in association with oral tranilast, an anti-allergic drug which may directly affect the activity of cells of the monocyte macrophage line.^[3] The mechanism by which calcineurin inhibitors work in this condition is not clear. Several hypotheses have been proposed which include reduction in the number of lesional CD4+ T-cells, decreased production of cytokines such as interleukin-4, interleukin-13, macrophage colony stimulating factor and γ -interferon, and inhibition of the cellular immune reaction inducing granulomas around elastic fibers.^[1,3]

Although we cannot exclude a spontaneous regression of disease, the significant clinical improvement observed in our case shortly after starting topical pimecrolimus suggests the efficacy of this drug and indicates its possible use as monotherapy. Further studies and reports are needed to confirm these assumptions.

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