Tinea capitis in 2 immunocompetent elderly patients

Keywords: tinea capitis, trychophyton tonsurans, elderly, folliculitis, corticosteroids

Introduction

Tinea capitis is classically considered as a childhood disease, however in recent years has been an increase in the involvement of adults. The prevalence of tinea capitis in adults is around 10% in southern of Spain.1,2 The population have been epidemiological that had conditioned the emergence of etiological agents in fluctuating form.3 We review the frequency of Trichophyton tonsurans in our hospital center and present 2 immunocompetent elderly patients with tinea capitis in whom this agent is isolated.

Objective

Determine the prevalence of tinea capitis due to Trichophyton tonsurans in the elderly population of the University Hospital of La Princesa, Madrid.

Materials and methods

A retrospective study was performed since 2009 to 2016. It were reviewed all the positive fungal samples of skin lesions and annexes sent to microbiology.

Results

In total, 424 positive samples for fungi with skin lesions and adnexa were collected. From these only 6 presented a culture of Trichophyton tonsurans, which corresponds to 1.4% of the total positive cultures. In 3 of the 6 cases had tinea capitis and 2 from the 3 patients were older than 65 years.

The first case is an 87-year-old woman, without immunosuppressive factors and without risk environment, who started 18 months before with pruritic lesions on the scalp, alopecia, erythema, thick adherent scales, pustules and follicular black dots (Figure 1A) (Figure 1B). Fungal culture was positive for Trichophyton tonsurans. Serologies (VHB, VHC, and VIH) were negative and a complete blood count test and biochemistry analysis was normal. Histopathology showed a follicular involvement by a dermatophyte with an endothrix pattern (Figure 2A). Terbinafine 250mg/day was prescribed for 16 weeks. A persistence of residual slight erythema was observed. Control cultures and KOH were negatives.

The second case is a 90-year-old woman, without immunosuppressive factors and without a risk environment, which began 6 months before with progressive pruritus on the scalp, with diffuse erythema, follicular hyperkeratosis, pustules and diffuse black dots. Numerous annular and circinate erythematous and squamous plaques were observed in the dorsal neck and scapular region (Figures 3A–3C). Fungal culture was positive for Trichophyton tonsurans. Serologies (VHB, VHC, and VIH) were negative and a complete blood count test and biochemistry analysis was normal. Histopathology showed a follicular involvement by a dermatophyte with an endothrix pattern (Figure 2B). Itraconazole 200mg/day for 8 weeks and eberconazole 1% topical was prescribed with progressive disappearance of the lesions.

Discussion

In recent years Trichophyton tonsurans is becoming increasingly isolated, linked to immigration from Africa, among other factors.2,3 Related to our local epidemiology, it was observed that in the period 2009–2016 there was a low prevalence of Trichophyton tonsurans, which could be explained by the limited foreign population that is treated in our hospital. Tinea capitis in adults predominate in postmenopausal women, prone by the use of topical corticosteroids.4

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Desquamative lesions, alopecia and black dots have traditionally been related to infection by Trichophyton tonsurans. Exceptionally cases have been reported where the predominance of inflammatory lesions are seen as in the first case.

It is important to exclude fungal infections in cases that simulate seborrheic dermatitis, folliculitis or impetigo with torpid evolution, because produce a delate in the diagnosis, as in our patient who being delayed a year and a half after the start of the clinic. Mostly it is important to perform cultures prior to treatments, to make the right diagnosis, identify the correct etiological agent and know adequately the local epidemiology of tinea capitis of each center.

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None.

Conflicts of interest

This manuscript has not been published elsewhere and is not under consideration by another journal. All authors have approved the manuscript and agree with submission to the Journal of Dermatology & Cosmetology. The authors have no conflicts of interest to declare.

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