KERIONLIKE LESION OF THE SCALP DUE TO *ACREMONIUM KILIENSE* IN A NONCOMPROMISED BOY

Jorge O. LOPES (1), Lauro C. KOLLING (1) & Walter NEUMAIER (2)

SUMMARY

We report a case of kerionlike lesion of the scalp due to *Acremonium kiliense* in a boy without underlying disease. Diagnosis was established by direct examination and cultures from pus and scrapings.

KEYWORDS: Kerionlike lesion; Acremonium kiliense; Noncompromised boy.

INTRODUCTION

Kerion is a severe form of dermatophytosis with deep, suppurant, inflammatory lesions. The infection is rare and is generally caused by the zoophilic dermatophytes *Trichophyton mentagrophytes* var *mentagrophytes* and *T. verrucosum*. These fungi are usually acquired from animals and the disease seen mostly in rural areas. We report an uncommon case of kerionlike lesion of the scalp due to *Acremonium kiliense*, in a boy without underlying disease.

CASE REPORT

A 4-year-old boy, born and living in the rural area of Mata, Rio Grande do Sul (RS), Brazil, came to Mycology Department of the Santa Maria University with a three months history of a marked inflammatory lesion of the scalp, measuring eight centimeters in diameter, with swelling and hair dislodgement, despite antifungal therapy with antibiotics. The patient was a nourished hygienic boy, without history of underlying disease. The patient's father related that about three months previously, the lesion started by papules, involving simultaneously several adjacent areas, jointed later in a massive acute inflammatory infiltrate, with plaques studded with pustules. Pus and scrapings collected from the lesion and mounted in 10% potassium hydroxide solution, revealed rare hyaline, septate, to 4 μm in diameter, branching hyphae. No arthroconidia formation was observed. Hair was not infected. Cultures from the pus on Mycobiotic agar (Difco) incubated at 25°C, revealed slow growing downy, white colonies. Hyphae were hyaline, septate, 2 to 4 μm in diameter, with typical *Acremonium* conidiophores bearing nonseptate, straight conidia, characteristic of *A. kiliense* (Fig. 1). The fungus was the unique microorganism isolated from the rest of scrapings on several occasions.

The patient was treated with topical econazole solution and systemic griseofulvin. Surgical intervention was not performed. After one month of treatment the patient returned to the Mycology Department presenting improvement of the lesion, remaining several crusts and alopecia (Fig. 2). Treatment continued to be administered and three months later only a desquamation persisted, with resolution of the alopecia (Fig 3).

DISCUSSION

Fungi of the genus *Acremonium* are abundant in soil and have been recovered from many cases of mycetoma, onychomycosis and keratitis. Only in a few

(1) Departamento de Microbiologia e Parasitologia, Universidade Federal de Santa Maria, RS, Brasil.
(2) Módico Dermatologista, Santa Maria, RS, Brasil.

Correspondence to: Jorge O. Lopes, Departamento de Microbiologia e Parasitologia, Universidade Federal de Santa Maria, 97119-970 Santa Maria, RS, Brasil.
cases \textit{Acremonium} has been related to deep human infections of traumatic origin or in the compromised host, as pneumonia\textsuperscript{17}, arthritis\textsuperscript{21,34}, midline granuloma\textsuperscript{3}, meningitis\textsuperscript{8,17}, endocarditis\textsuperscript{8,12}, cerebritis\textsuperscript{27}, osteomyelitis\textsuperscript{2} and peritonitis\textsuperscript{13}. Two cases of mixed \textit{Acremonium} and \textit{Staphylococcus aureus} infection of hemodialysis fistulae were reported\textsuperscript{16}. Onycholysis and subcutaneous nodules involving both forearms due to
A. falciforme, were reported in a renal transplant recipient. Subcutaneous abscess was reported in a cardiac transplant recipient. Dermatomyositis includes a variety of diseases in which skin, nails and hair are involved. Only a few skin fungi have been related with human dermatomyositis, and the disease elicited by these fungi is similar to dermatomyositis. Cutaneous infection due to A. falciforme was reported by TEDESCO-MARCHESI et al. in an apparently immunocompetent girl. The lesions appeared as chronic infiltrated scaly erythematous plaques. LONDERO & RAMOS reported a case of A. falciforme infection located on intertriginous areas of the foot simulating tinea pedis. A literature review of dermatomyositis has revealed no references as to observation of kerionlike lesion due to Acremonium.

RESUMO

Lesão tipo quérrio do couro cabeludo causada por Acremonium kiliani em menino não imunocomprometido.

Relatamos um caso de lesão tipo quérrio do couro cabeludo causada por Acremonium kiliani, em menino sem doença de base. O diagnóstico foi feito pelo exame direto e cultivo dos pés e cristas.

ACKNOWLEDGEMENTS

Our sincere appreciation is expressed to Dr. Carlos da Silva Lanz (Laboratório de Micologia Médica, Faculdade de Medicina da USP) for culture identification.

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Received for publication em 04/01/1995
Aceito para publicação em 26/01/1995