Zoonotic Sporotrichosis Epidemic Affects Children in Brazil

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Introduction

Sporotrichosis, caused by the dimorphic fungus Sporothrix schenckii and was first described by Benjamin Schenck in 1898. It is the most common subcutaneous mycosis in Latin America. The infection is usually acquired by inoculation of the fungus through the skin. Zoonotic transmission of sporotrichosis seems to be rare worldwide. However, since 1998, an increasing number of cases have been reported in humans in Rio de Janeiro, Brazil; the vast majority of these cases have been associated with contact with cats affected by the same condition. Itraconazole is the drug of choice for treatment.

Case Report

A 6-year-old boy presented with erythematous-crusted lesion on the trunk region, which had been present for 2 months (►Fig. 1A, B). He gave a history of contact with a sick domestic cat (►Fig. 1C). An incisional biopsy of the lesion was performed, and histopathologic examination revealed pseudo-carcinomatous hyperplasia and occasional multinucleated giant cells. Growth of S. schenckii was obtained from culture of the tissue (►Fig. 2A–D). After confirmation of the diagnosis of sporotrichosis treatment with itraconazole 100 mg/d was commenced, with healing after 3 months. The patient was regularly followed up after cessation of treatment, and no signs of recurrence were elicited.

Discussion

The outbreak of cat-related sporotrichosis in Rio de Janeiro, Brazil, appears to have begun in around 1998. Although several cases have been reported in the literature,1,2 the problem is not widely known about internationally. The rise in tourism in Brazil, particularly in association with major international sporting events, makes it important that health care practitioners in other countries are aware of this outbreak.

The presentation of sporotrichosis varies according to the virulence of the strain and host immune status.3 There is little direct evidence how the infectious agent became disseminated throughout the Rio de Janeiro municipality and its

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Abstract
Sporotrichosis is caused by the dimorphic fungus Sporothrix schenckii and was first described by Benjamin Schenck in 1898. It is the most common subcutaneous mycosis in Latin America. The infection is usually acquired by inoculation of the fungus through the skin. Zoonotic transmission of sporotrichosis seems to be rare worldwide. However, since 1998, an increasing number of cases have been reported in humans in Rio de Janeiro, Brazil; the vast majority of these cases have been associated with contact with cats affected by the same condition. Itraconazole is the drug of choice for treatment.

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outskirts, but it is beyond reasonable doubt that the close interaction with cats represents a key route of transmission of the fungus to humans. However, felines have very close contact with contaminated soil and organic matter that constitute reservoirs of \textit{S. schenckii}. The gold standard for sporotrichosis diagnosis is culture, and the drug of choice for treatment is oral itraconazole. Dermatologists and pediatrics must be aware of the possibility of cat-related sporotrichosis presenting in humans to avoid diagnostic pitfalls.

Conflict of Interest
None.

Role of Funding Source
None.

References