CASE REPORT

SPONTANEOUS RESOLUTION OF ZOONOTIC SPOROTRICHOSIS DURING PREGNANCY

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SUMMARY

Sporotrichosis is the most common deep mycosis in Latin America. The zoonotic transmission from cats has been demonstrated over the last few decades in many countries. A forty year-old veterinarian examined a cat with multiple ulcerations, which mycological examination isolated *Sporothrix schenckii*. During the examination, she was bitten in the right index finger by the animal. Two weeks later, an inflammatory lesion appeared, which became ulcerated and was followed by ascendant lymphangitis. The diagnoses of lymphocutaneous sporotrichosis and of a six weeks pregnancy were established. The lesions were not treated and by the 28th week the ulceration healed and the abscesses showed involution. This case illustrates that non-life-threatening forms of sporotrichosis during pregnancy could be treated with systemic antifungals after delivery.

KEYWORDS: Sporotrichosis; Pregnancy; Spontaneous resolution

INTRODUCTION

Sporotrichosis has a worldwide distribution and has been especially noticed in tropical and temperate zones. The causative agent can be found in decaying vegetation, soil, moss, wood and may infect a large diversity of animals, including cats. The usual mode of transmission is the traumatic cutaneous inoculation of the organism followed by lymphatic spread.

Sporotrichosis is the most common subcutaneous mycosis in Latin America and Brazil. The zoonotic potential of cats has been demonstrated over the last few decades in Brazil, Mexico and the United States, recognizing the importance of this mode of transmission and alerting people who works with these animals. Treatment consists of the administration of systemic antifungal or iodides and on very rare occasions has a spontaneous cure been related. In this case the disease in a pregnant woman had resolution without intervention.

CASE REPORT

A forty year-old veterinarian examined a cat with multiple ulcerations (Fig. 1) which mycological examination isolated *Sporothrix schenckii*. During the examination, she was bitten in the right index finger by the animal. Two weeks later, an inflammatory lesion appeared in the same finger, which became ulcerated (Fig. 2a) and was followed by ascendant lymphangitis in the right arm (Fig. 2c). *S. schenckii* was identified again by the mycological examination. As well as the diagnosis of lymphocutaneous Sporotrichosis, a six weeks pregnancy was also diagnosed.

Since there is not a safe systemic antifungal treatment for sporotrichosis during the first trimester of pregnancy and a low risk of dissemination to the fetus, no medicamentous treatment was prescribed. Interestingly by the 28th week the ulceration healed (Fig. 2b) and the abscesses showed involution with residual erythema in the following weeks (Fig. 2d). She had an uncomplicated cesarean delivery and the child was born healthy.

DISCUSSION

Few cases of spontaneous resolution of sporotrichosis have been reported. Most of them were localized cutaneous disease, without
Esporotricose é a micose profunda mais comum na América Latina. Sua transmissão zoonótica a partir de gatos foi documentada nos últimos anos em vários países. Médica veterinária foi mordida por um gato, que apresentava múltiplas ulcerações, das quais foi isolado *Sporothrix schenckii*. Duas semanas depois surgiu lesão inflamatória e após uma ulceração no dedo mordido, seguida de linfangite ascendente. Esporotricose linfocutânea e de gravidez foram então diagnosticados. A lesão não foi tratada e na 28ª semana de gravidez apresentou ulceração. Esse caso demonstra a possibilidade de spontânea resolução sem qualquer tratamento.

**RESUMO**

Regressão espontânea de esporotricose zoonótica durante a gestação

Esporotricose é uma micose profunda muito comum na América Latina. Sua transmissão zoonótica, a partir de gatos, é recentemente documentada nos últimos anos em vários países. Médica veterinária foi mordida por um gato que apresentava múltiplas ulcerações, das quais foi isolado *Sporothrix schenckii*. Duas semanas depois surgiu lesão inflamatória, e depois de algumas semanas de observação, a lesão cicatrizou e os abcessos sofreram involução. Esse caso demonstra que formas menos graves de esporotricose poderiam ser tratadas com anti-fúngicos sistêmicos após o parto.