

Hypersensitivity reaction to *Sporothrix schenckii*: erythema nodosum associated with sporotrichosis

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A 42-year-old female patient visited the dermatology clinic complaining of having had a wound in the face for 25 days. She reported that her cat had scratched her in the inner corner of her right eye. The scratch evolved to local edema and erythema and, a week later, to ulceration with infiltrated edges and a purulent exudate (Figure A). She also reported, simultaneous with ulceration emergence, the onset of lower limb edema associated with painful and erythematous nodules, which were more palpable than visible, up to the inguinal region (Figure B). The patient reported no other symptoms.

The patient brought her cat to the hospital on the day of consultation. The cat had ulceration in the inner corner of the left eye and a submandibular ulcer (Figure C). A diagnosis of sporotrichosis associated with erythema nodosum was reached and treatment with 400mg/day itraconazole (200mg/12h for 90 days) was indicated.

Samples were collected from the cat for direct mycological examination. A sample from the patient's ulceration was also collected for culture to confirm the diagnosis (humid, compact, white lesions and whitish colonies with a wrinkled surface in the darkened aerial mycelium). Microscopic examination of

the culture showed thin-walled hyphae with oval or triangular conidia at the top of the conidiophores. The cat was referred to Oswaldo Cruz Foundation [Fundação Oswaldo Cruz (FIOCRUZ)] for treatment. By December 2009, more than 2000 people and 3,200 cats had been treated for confirmed sporotrichosis at FIOCRUZ.

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