



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

## ACTINOMYCETOMA IN A ENDEMIC REGION OF MEXICO: A REPRESENTATIVE CASE REPORT BY NEOCARDIA BRASILIENSIS

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**INTRODUCTION:** Mycetoma, also known as "mature foot", is a granulomatous type infection of the dermis and subcutaneous tissue that can extend even to the bone. It is produced by fungi (eumycetoma) or actinomycetes (actinomycetoma), the latter is due to *Neocardia brasiliensis* in 70% of cases in Mexico, therefore, it is very important in our country, both for its frequency and its severity in some cases.

**CLINICAL CASE:** A case of a 37-year-old male patient, originally from Tizapán el Alto, Jalisco ;farmer, who denies important pathological antecedents, refers to the fact that he began with suffering at 18 years of age, while he was fishing in the river got cut with a branch, causing him a wound, which never healed, furthermore, began over time to increase in size accompanied by pain. Currently, he presents a single polymorphic localized dermatosis affecting the left lower limb predominantly in the knee and popliteal area constituted by multiple papules of approximately 4 mm with fistulas and purulent drainage with pain on deep palpation, in addition to multiple scars apparently from previous lesions. In the present he denies treatment although mentions that received his first treatment 7 years ago with rifampicin + trimethoprim / sulfamethoxazole 1 tablet c / 12 hrs for 2 months  
**Laboratory:** Direct test from smears skin lesions was performed and analyzed under microscope, finding *Nocardia* white grains

**Skin biopsy:** histological image corresponds to a suppurative granulomatous process consistent with subcutaneous mycosis.

**Radiography:** AP and Lateral left knee showed no bone involvement.

**DISCUSSION AND CONCLUSIONS:** Actinomycetoma infection treatment is a long term treatment to achieved high rates of curation ; It is very important to educate the patients about the treatment, because there can be very serious complications. And in the other hand this type of infectious still a big problem in Mexico.

