

# Review of: "Mycetoma in Animals a Review of Cases Reported From 1925-2022; Epidemiology and Management Strategies"

Gaia Vichi

Potential competing interests: No potential competing interests to declare.

## Comments to the author:

### General Overview:

Your work is an exhaustive review of the knowledge about animal cases of mycetoma.

However, many points generate some concerns (see the following comments that I listed according to the order of paragraphs in the text).

### Introduction:

In the sentence "At the other hand, the presence of mycetoma infections in animals distinguishes mycetoma as an occupation-independent disease and is therefore considered an implantation mycosis caused by species of dematiaceous fungi and actinomycetes that usually affects the skin at the subcutaneous levels,"

a)-the present: change to "the presence"

b)- and actinomycetes: maybe you intend actinomycetes, however these are not fungi but Gram-positive bacteria, so I suggest changing "caused by species of dematiaceous fungi and actinomycetes" to "caused by species of dematiaceous fungi (eumycetoma) and bacterial infections caused by Actinomycetes (actinomycetoma)"

c)- that usually affects the skin at the subcutaneous levels: these infections may involve the skin at variable depths and/or the subcutis

### Etiology of Mycetoma: Historical Aspects

-The melanized species: change to "the pigmented species"

- two different orders of ascomycetes: change to "two different Orders of the same Phylum Ascomycota"

-in much fewer numbers: change to “in much smaller number”

-The sentence “While in animals the most common agents were *Pseudallescheria boydii*, similar to human mycetoma in the United States and North America, which is commonly caused by *Pseudallescheria*, followed by *Curvularia geniculata*...” seems unclear. Please correct it to a more fluent British English, “In animal species, the most commonly involved species is *Pseudallescheria boydii*, reflecting the epidemiology of human cases of mycetoma in the United States and North America, commonly caused by *Pseudallescheria*, followed by *Curvularia geniculata*...”

- “All genera may be responsible for chronic, suppurative granulomas characterized by abscess formation and marked fibrosis that are frequently unresponsive to routine antimicrobial therapy”. This is not correct: *Dermatophilus congolensis* causes exudative dermatitis in animal species.

-“It is important to differentiate actinomycetoma from actinomycosis, and nocardiosis” please remove the comma

- “Nocardiosis is an acute, chronic, suppurative or granulomatous infectious disease. It is Gram-positive, acid-fast, but does not stain with H and E”. There are many errors in this sentence, please correct:

a)- “acute, chronic, suppurative or granulomatous” with “acute suppurative or chronic pyogranulomatous”

b)- but does not stain with H and E: please change H and E to Hematoxylin and eosin stain

c)-“non-capsulated, non-motile, non-sporulated, aerobic actinomycete, which consist of thin, delicate, slender, beaded filamentous hyphae of 1µm or less in diameter” Please define the subject of this sentence (*Nocardia* bacteria are...)

- Cattle and dogs are more affected than other species of animals. Bovine mastitis is the most common clinical presentation of nocardiosis among domestic animals” please adjust the second sentence to “However, bovine mastitis is...”

- “The disease in canine”: please correct to “the disease in dogs”

## Transmission

- “Mycetoma causative agents generally follow an environmental transmission route”: remove the verb “are”

- At the other hand, the presence of mycetoma infections in animals distinguishes mycetoma as an occupation-independent disease: correct “the present” to “the presence”

## Descriptions of Selected Case Reports of Mycetoma in Animals: Canine Mycetoma

-“The affected animal was a 5-year-old pointer from Florida”: please remove the comma

-Why do you interrupt the “canine mycetoma paragraph” with “pseudomycetoma paragraph”? You can discuss pseudomycetoma after the “mycetoma paragraph”

## Mycetoma in Horses

- “Johnson et al. in 1975 described a case of a 13-year-old crossbred gelding from east-central Alberta (Canada) which was presented to the clinic at the Western College of Veterinary Medicine in June 1973 with a retrobulbar swelling causing severe exophthalmos of the left eye”. Please correct “aretrobulbar” to a retrobulbar

- “A 2-year-old Jersey heifer was presented to Veterinary Clinics, Faculty of Veterinary Sciences and Animal Husbandry, Shere-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar, with a history of cutaneous dermatomycosis. Mycological screening of skin scrapings led to isolation and identification of *Curvularia* spp.” This animal is not a horse, it’s a bovine!!! Remove it from the paragraph of equine cases

**Mycetoma in Cattle**- correct it to “Mycetoma in bovines”

### **Antifungal in Animals With Mycetoma Infections**

Please indicate the animal species for any cited therapeutic approach.

Please try to emphasize the importance of culture tests before choosing the antimicrobial to use, crucial for reducing the risk of antimicrobial resistance with inappropriate protocols.

### **In conclusion**

Please create a separate paragraph: Conclusions.

**IMPORTANT AND FINAL CONSIDERATIONS:** Please check the entire text to correct it in appropriate British English and check all the references....In many cases, the first name and not the last name of the authors is reported in the text. Check also the correct references format according to the author guidelines provided by Qeios.