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Concurrent phaeohyphomycosis in canine superficial pyoderma associated with *Pseudomonas aeruginosa*

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Background: Skin affections in canines are common and their successful treatment usually depends upon the pathogens involved. Delayed or no response to traditional treatment indicates the involvement of unusual etiology or the multidrug resistance.

Objective: To describe the diagnosis and therapeutic management of a rare case of phaeohyphomycosis with concurrent superficial pyoderma in a Doberman pinscher dog.

Methods and results: A 12-month old Doberman pinscher male dog with complete alopecia of lower jaw and neck region and hair loss in moth-eaten pattern on the chest and legs. Diagnosis was based on clinical examination and microscopy and culture of skin lesions followed by PCR and sequencing confirmation. Treatment consisted of a combination of systemic antifungal and antibacterial therapy selected on the basis of *in-vitro* antimicrobial susceptibility test along with the tropical therapy including skin soother spray containing tea tree oil, aloe vera and vitamin E and bathing with shampoo containing ketoconazole and chlorhexidine leading to complete recovery.

Conclusion: At a 12-month follow-up, the dog remains well, no hair loss occurred and there has been no recurrence of the cutaneous lesions. To the authors' knowledge, there are no previous reports describing concurrent *A. alternata* and *P. aeruginosa* cutaneous infection in a dog. Further studies and documentation on opportunistic fungi are needed to better understand the risk factors associated with pathogenesis and optimal treatment of these uncommon infections.

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