Is It a Fungal Infection?

What are the clinical signs?

Blastomycosis^{4,5}

Lung pathology in 65-85% cases; cough, tachypnea, lesions

Lymph nodes in 30-50% cases

Eyes in 20-50% cases; lesions, endophthalmitis

Skin in 30-50% cases; lesions; most involved nasal planum, face, nail beds

Bone in 30% cases; lameness, lesions CNS infections in 3-6% cases



Histoplasmosis^{6,7}

Dogs

Lung involvement in 50% cases; chronic cough, dyspnea Gastrointestinal in 78% cases; inappetence; bloody or mucousy diarrhea



Cats Weight loss, lethargy, dehydration Lung involvement in 39% cases; tachypnea, dyspnea Eyes in 24% cases Organ enlargement in 33% cases

Aspergillosis⁹

Sinonasal disease- hallmark sign is depigmentation on nose Destruction of turbinate bones and mucosa Purulent discharge Facial discomfort, open mouth breathing Ulceration Inappetence, lethargy



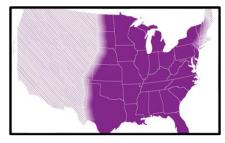
Cryptococcosis⁸

Most common in cats Respiratory- sneezing, discharge, swelling Sores resembling fight wounds Eye abnormalities, blindness

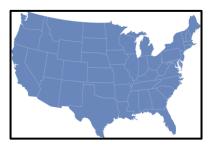


Where is it endemic?

Blastomyces & Histoplasma¹



Cryptococcus^{2,3} & Aspergillus³



References

¹More information about the estimated areas with blastomycosis. coccidioidomycosis (Valley fever), and histoplasmosis in the United States, CDC, Last reviewed Jan 8, 2021, ²Fig 2. Summers et al. 2021. PMID 33425680 3https://tolsura.com/infections-overview/ 2022 ⁴Schwartz, I.S. (2018). Blastomycosis in Mammals. In: Seyedmousavi, S., de Hoog, G., Guillot, J., Verweij, P. (eds) Emerging and Epizootic Fungal Infections in Animals. Springer, Cham. 5Gaunt MC and Taylor SM. Canine blastomycosis: a review and update on diagnosis and treatment. 2009. DVM360. 6Gingerich K and Guptill L. Canine and feline histoplasmosis: a review of a widespread fungus. 2008. DVM360. 7Ewald MM, Rankin AJ, Meekins JM, and McCool ES. Disseminated histoplasmosis with ocular adnexal involvement in seven cats. 2020. Vet Opthalmol 23(5): 905-912. ⁸Gordon J. 2011. Systemic fungal diseases (Proceedings). DVM360. ⁹Cook A. 2010. When to consider aspergillosis in dogs. DVM360.