

Diagnostic Exercise

From The Davis-Thompson Foundation*

Question Sheet

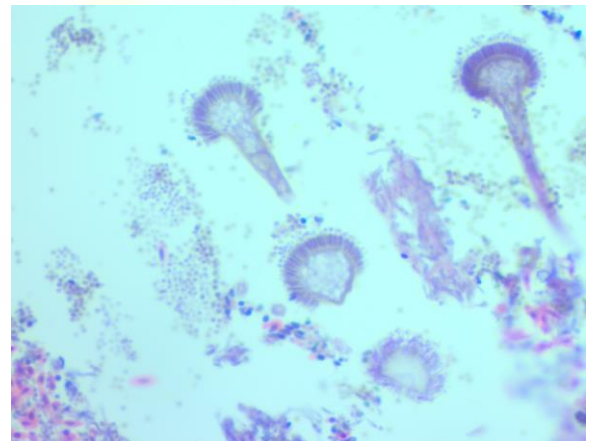
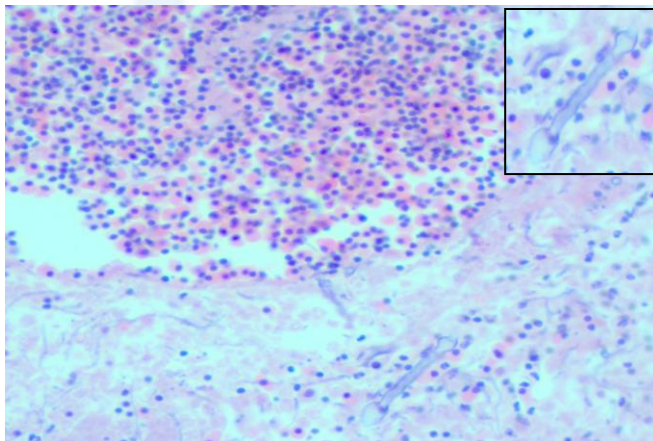
Case #: **168** Month: **July** Year: **2021**

Contributors: Tapan Kumbhani, BVSc Postgraduate Student and Bhavesh Trangadia¹, MVSc, PhD. Department of Veterinary Pathology, College of Veterinary Science and Animal Husbandry, Junagadh Agricultural University, Junagadh, Gujarat, India. drbjt77@gmail.com

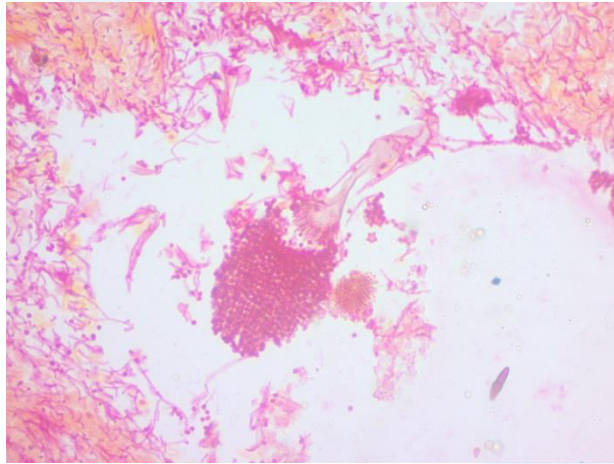
Clinical History: Three barn owls died with the history of respiratory distress. Tissue pieces of lung, liver and kidney were received in 10% buffered formalin at the Department for histopathological diagnosis.

Necropsy Findings: Grossly, liver and kidney were apparently normal. However, nodules and white plaques were observed in lungs.

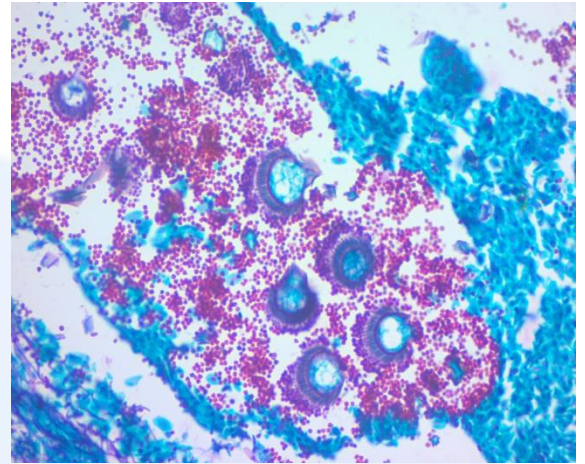
Microscopic Images:



Lung: Infiltration of lymphoplasmacytic cells with fungal hyphae (H&E x 100)



Lung: Fruiting bodies (conidiophores) attached to sterigmata (H&E x 400)



Lung: Hemispherical fruiting bodies with conidiophores (Gridley's x 400)

Lung: Numerous conidia blocking the airways (PAS x 400)

Follow-up questions:

- *Morphological diagnosis?*
- *Etiologic diagnosis?*
- *Etiology?*

*The Diagnostic Exercises are an initiative of the Latin Comparative Pathology Group (LCPG), the Latin American subdivision of The Davis-Thompson Foundation. These exercises are contributed by members and non-members from any country of residence. - Consider submitting an exercise! - A final document containing this material with answers and a brief discussion will be posted on the CL Davis website (http://www.cldavis.org/diagnostic_exercises.html).

Associate Editor for this Diagnostic Exercise: Ingeborg Langohr

Editor-in-chief: Claudio Barros