

Diagnostic Exercise

From The Davis-Thompson Foundation*

Case #: **163** Month: **April** Year: **2021**

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Clinical History: A 1.5-year-old, intact male red kangaroo (*Macropus rufus*) was found dead in its pen and submitted for postmortem examination to the Louisiana Animal Disease Diagnostic Laboratory (LADDL).

Necropsy Findings: The thoracic cavity was filled with small amount (approximately 50 ml) of red-tinged fluid. Bilaterally, approximately 90% of the pulmonary parenchyma was dark red to purple and firm and failed to collapse, with some rib impressions on the dorsal surface. The pericardial sac contained approximately 10 ml of red-tinged fluid and the epicardium along the coronary groove had multifocal, short, white streaks.

Gross and Microscopic Images:

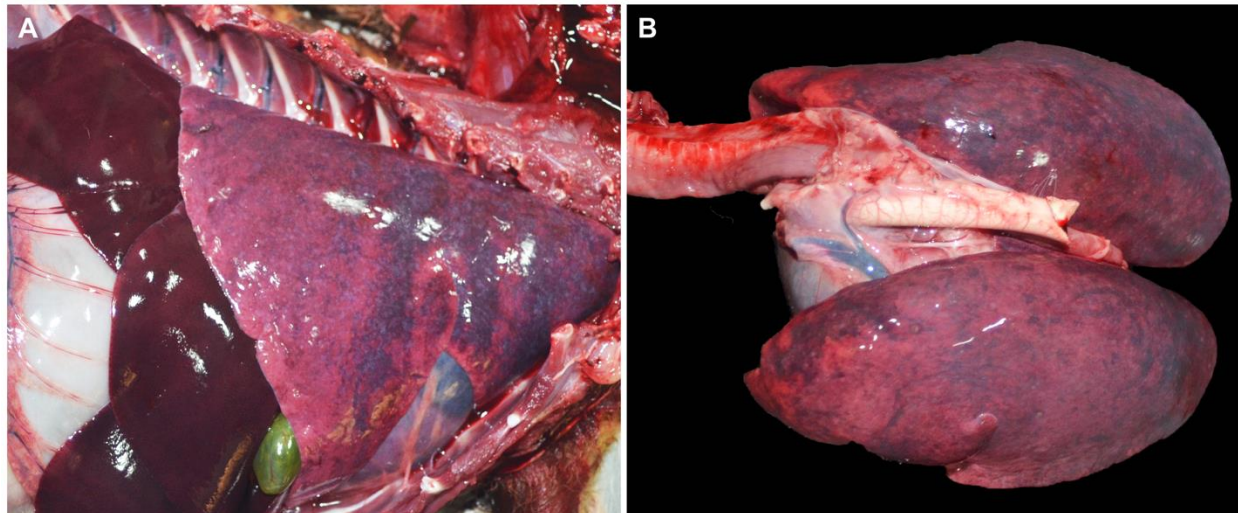


Figure 1: (A) Lateral view of the open thoracic cavity. (B) Lungs, dorsal view after being removed from the thorax.

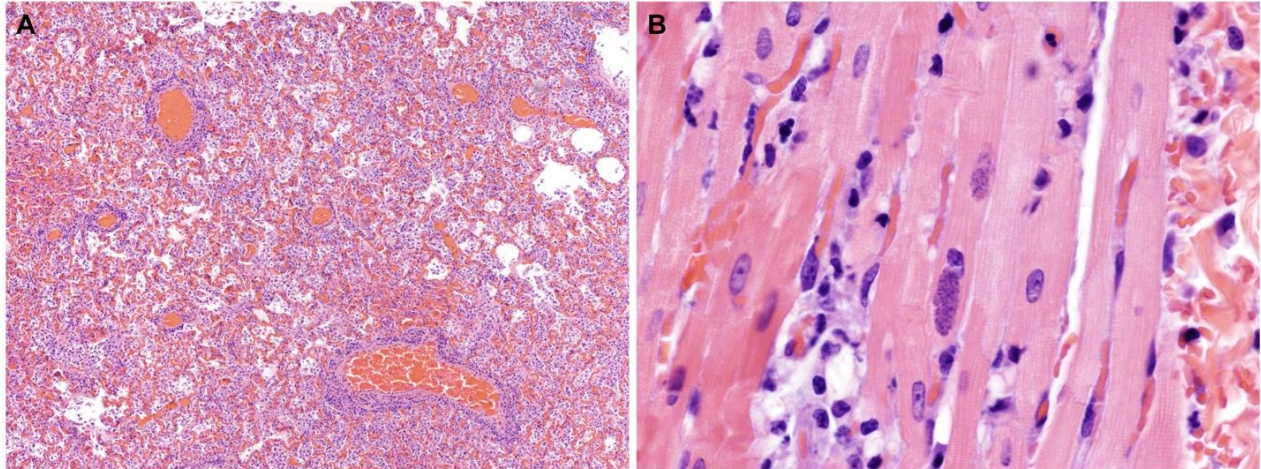


Figure 2: (A) Lung. H&E, 50X. (B) Myocardium. H&E, 400X.

Follow-up questions:

- *Histologic description*
- *Morphologic diagnoses*
- *Associated lesions/other organs affected*
- *Possible causes*

*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).

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