



# DIAGNOSTIC EXERCISE

## From The Davis-Thompson Foundation\*

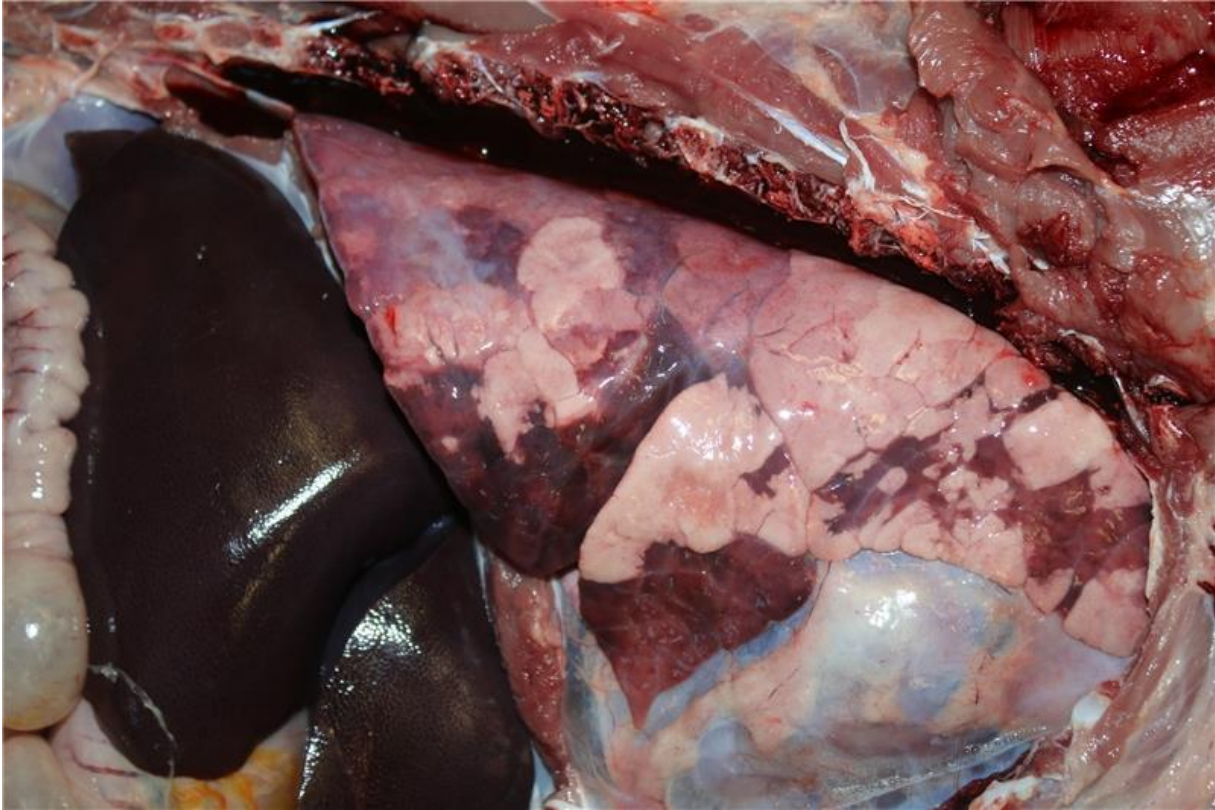
Case #: **224**; Month: **November**; Year: **2023**  
*Question sheet*

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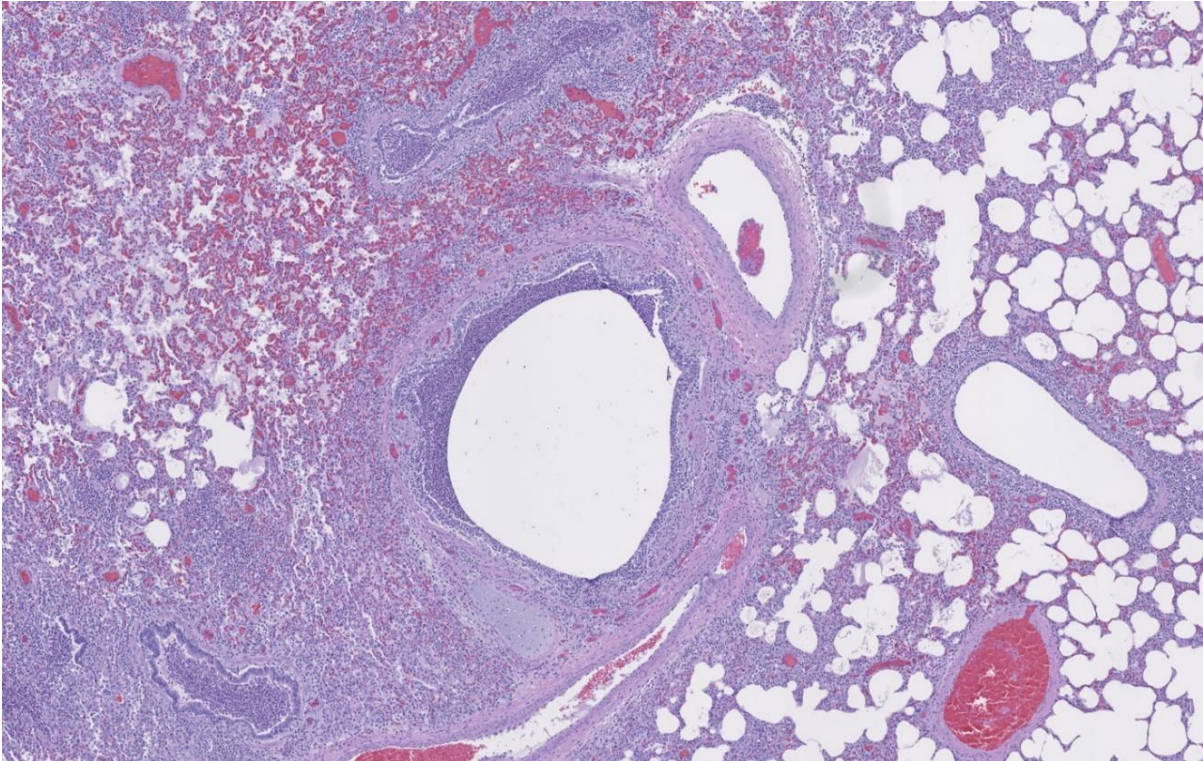
**Clinical History:** A 26.2 kg (57.8 lb), 3-month-old male mixed breed show pig had increased respiratory effort one-week after purchase. The clinical signs progressed to abdominal breathing, lethargy and lateral recumbency. The pig was kept in isolation from the herd. On clinical presentation, the pig was pyrexic with continued increased respiratory effort despite medical management. Thoracic radiographs showed bilateral lung consolidation.

**Gross Findings:** The pig was in good body condition. All lung lobes contained multifocal, dark red, firm areas (consolidation), resembling a checkerboard pattern (Fig. 1). The affected percentage of each lung lobe were as follows: 30% cranial portion of the left cranial, 50% caudal portion of the left cranial, 20% left caudal, 70% right caudal, 30% right cranial, 50% right middle, and 40% accessory. The remainder of the lungs were diffusely wet, heavy, and failed to collapse (edema). The lumen of the trachea and mainstem bronchi contained mucus admixed with hemorrhage and foam. The tracheobronchial and inguinal lymph nodes were mildly to moderately enlarged and homogeneously pale tan on cut surface (reactive lymphadenopathy).

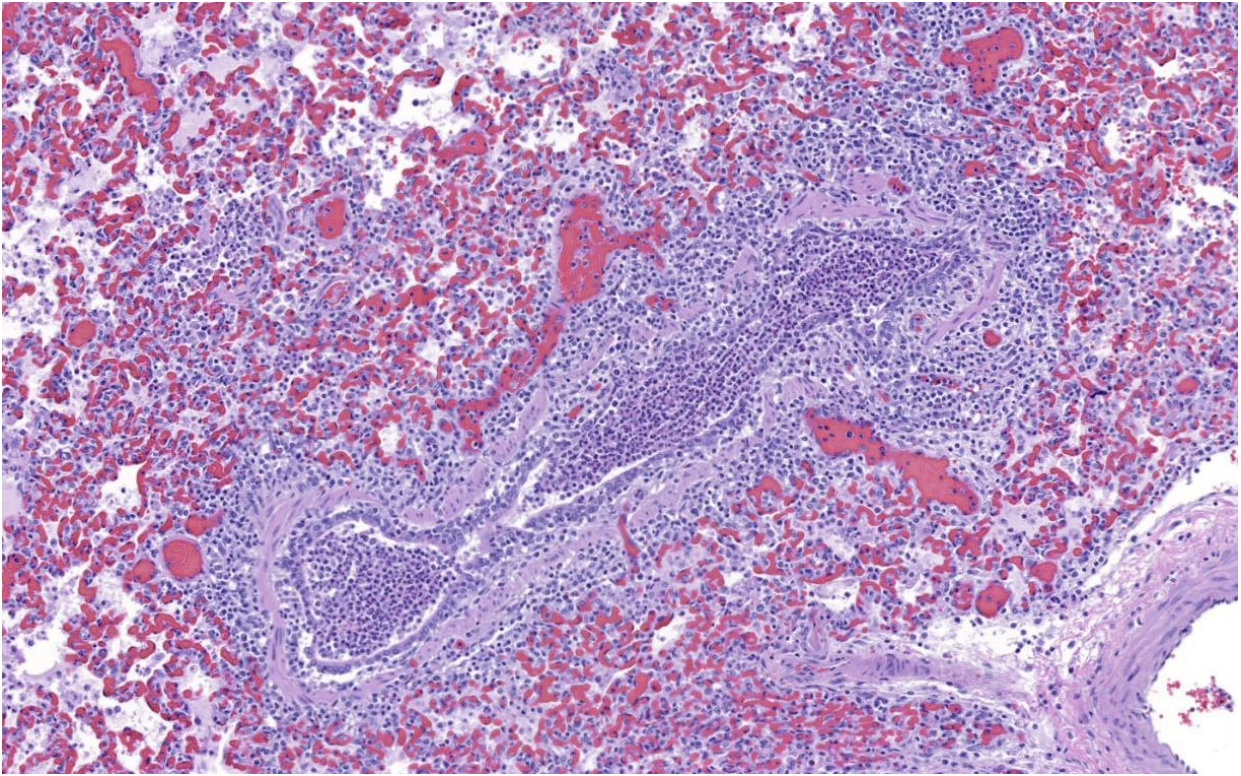
**Gross and Histological Images:**



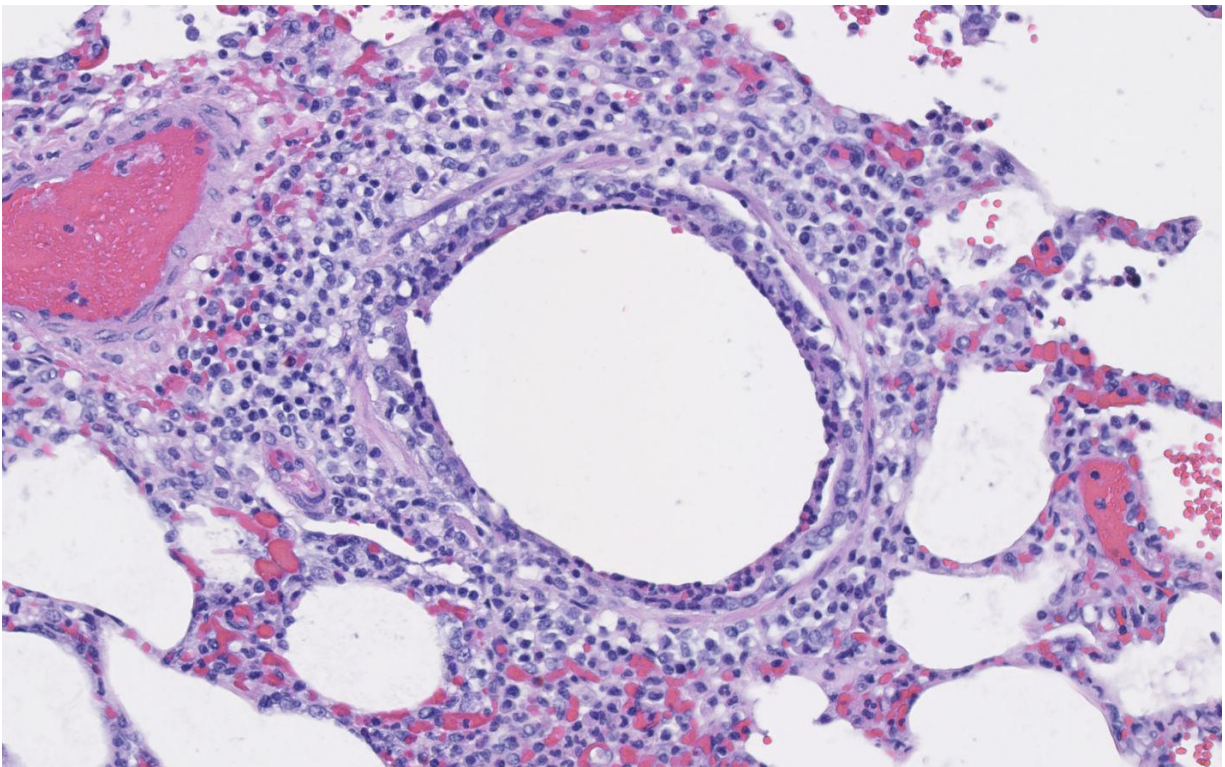
**Figure 1.**



**Figure 2: H&E**



**Figure 3: H&E**



**Figure 4: H&E**

**Follow-up questions:**

- Histological description?
- Morphologic diagnosis?
- Ancillary testing?
- Differential diagnoses?

\*The Diagnostic Exercises are an initiative of the Latin Comparative Pathology Group (LCPG), the Latin American subdivision of The Davis-Thompson Foundation (DTF). 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 DTF website (<https://davisthompsonfoundation.org/diagnostic-exercise/>).

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