Diagnostic Exercise

From The Davis-Thompson Foundation*

Case #: 145 Month: May Year: 2020

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Clinical History: This Ross broiler cockerel was one of six birds found deceased on day 28 of a research trial, and was part of an experimental heat-stress group. The research study was investigating the growth, immune and antioxidant responses of heat stress-exposed broilers fed variously supplemented diets. Clinical observations included lethargy, respiratory distress, and dark skin, with an overall 2% mortality rate.

Gross Images:

Figures 1 and 2

Necropsy Findings: Diffusely the skin and muscles were dark red, with congestion of peripheral vessels. The coelomic cavity was 80% distended and filled with 225 ml of clear yellow gelatinous fluid (Figure 1 and 2). The pericardium contained 4 ml of clear yellow fluid and the right
ventricular wall and atrium were dilated. The right ventricular wall was 2 mm and the left ventricular wall was 2.5 mm thick (Figure 3). The lungs were diffusely dark red with pink steady froth oozing out (Figure 4). The liver had rounded edges and there was a 10 x 15 x 10 mm subcapsular cyst filled with clear yellow fluid within the visceral surface of the right liver lobe (Figure 5).

Follow-up Questions: Gross morphologic diagnoses. Name the disease.
*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](http://www.cldavis.org/diagnostic_exercises.html)).

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