Diagnostic Exercise
From The Davis-Thompson Foundation*

Case #: 86 Month: November Year: 2017

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Clinical History: Received, from a backyard flock, a 10-month-old 1.3 kg rooster for necropsy. History of falling over, crop stasis, diarrhea, weight loss, weakness for approximately two weeks.

Necropsy Findings: The perivent feathers are soiled by feces and lime green urates (biliverdinuria – Figure 1). Severely reduced pectoral muscle mass (0.5/5) with a combination of inapparent adipose stores and serous atrophy. The liver is markedly enlarged, rounded, and deformed by multifocal to coalescing poorly defined pale tan friable nodules (Figure 2). Bilaterally, ureters contain white urates. Bilaterally, the kidneys are enlarged, slightly nodular, pale tan, and friable (Figure 3). Similar pale tan nodules thicken the proventriculus, enlarge the cecal tonsils, focally infiltrate the left testicle, enlarge the spleen, and focally enlarge the bursa of Fabricius.

Gross and microscopic images:
Figure 4 - Bursa of Fabricius. Hematoxylin and eosin (H&E). 2x objective.

Figure 5 - Bursa of Fabricius. H&E. 20x objective.
Follow-up questions: Morphologic diagnoses; differential diagnoses; immunohistochemical findings (given the probable 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).

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