Diagnostic Exercise
From The Davis-Thompson Foundation*

Case #: 108 Month: November Year: 2018

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Clinical History: A 4-year-old Brangus cow in poor body condition, weighing 363.5 kg, was submitted for postmortem examination. Several cows from the same herd comprised of 30 animals died within 3 weeks.

Necropsy Findings: Mucous membranes, muscles, and organs were pale. Peritoneal, thoracic and pericardial cavities were filled with yellowish fluid. Abundant fibrin was in the abdominal cavity and less was within the thoracic cavity (Figure 1A). The lungs were diffusely collapsed (atelectasis caused by the thoracic effusion) (Figure 1B). The liver was enlarged, with round margins and red to dark red irregular streaks on capsular & cut surfaces (Figures 2A-C). The bile ducts were prominent and surrounded by dense connective tissue (Figure 2D, arrows). Hundreds of 2.0 - 2.5 cm long, flat, leaf-shaped trematodes were present within these dilated and thickened bile ducts (Figure 2E). They were also numerous within the gall bladder lumen. The gall bladder, abomasal, and small and large intestinal mucosae were diffusely edematous.

Gross Images:

Figure 1
Follow-up Questions: Morphologic diagnosis(es), Histologic characteristics, and Cause.

*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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