



PATIENT

Hugo Harland

SPECIES

Canine

BREED

Retriever X

SEX

Neutered Male

AGE

9 Years

WEIGHT

75 Pounds

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Dr. Celine Ward

HOSPITAL NAME

Kenora Vet Clinic

REFERRING VET

Dr. Celine Ward

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8/4/22

PRESENTING CLINICAL SIGNS

Presented Aug 2 – lethargic, inappetent, vomiting bile. Diarrhea. Approx 6lb weight loss since May, unintentional PE - tense abdominal palpation

Abnormal PE/Chem/CBC/UA Results: CBC wnl Chem - mild elevation AlkPhos. ALT too high to read despite multiple attempts and dilution., mild hypochloremia cPL normal Serum icteric on sample Patient started on cerenia and zentonil while awaiting abd u/s - ate small amounts since then but still ADR

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

The visualized areas of prostate and surrounding tissue appear normal. Unfortunately, the prostate is not fully visualized likely due to its intrapelvic location. Correlate with rectal exam findings.

The left kidney has a normal shape and size (7.33 cm). Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney has a normal shape and size (6.91 cm). Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

The left adrenal gland is normal in size measuring 0.68 cm at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

The right adrenal gland is normal in size measuring 0.69 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

Spleen

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

Liver

The liver is large in size, and normal in echogenicity with smooth peripheral margins. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed.

The gallbladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are primarily anechoic. Visualization of the bile duct is challenging, which typically means it is normal, but definitive identification was not made.



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Gastrointestinal

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The stomach was moderately distended with hard shadowing material/ingesta and some gas. The visible areas of gastric wall measured at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. Evaluation of the entirety of the stomach is difficult due to the hard shadowing material observed.

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The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. Jejunum wall measured 0.47 cm. Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

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The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

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Pancreas

The area of the pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

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Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

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ULTRASONOGRAPHIC FINDINGS

- Hard shadowing material visualized within the gastric lumen – correlate with feeding history and abdominal radiographs. If the patient was adequately fasted, consider the possibility of ingested foreign material, delayed gastric emptying, or an outflow tract obstruction (none observed).
- Large, heterogeneous, irregular liver – The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, nodular hyperplasia, inflammatory/immune-mediated disease, fibrosis, extramedullary hematopoiesis, toxic hepatopathy (e.g., copper), infiltrative neoplasia (less likely) or other hepatopathy.
- Decreased corticomedullary distinction in both kidneys – The bilateral renal findings are consistent with age-related change.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The liver is large, irregular and heterogeneous. These are non-specific findings. No focal hepatic lesions were observed. Today's scan supports a primary hepatopathy, as no severe gallbladder changes were observed, but the bile duct was difficult to visualize. Consider the following:

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- Consider close evaluation of history for possible toxic changes examine medications, diet, dietary indiscretion etc...
- Consider PCR on urine/serum for leptospirosis (if not on antibiotics)/serology if recent antibiotic history
- If not already done, consider pre and post prandial bile acids to evaluate liver function

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- If the ALP is significantly elevated relative to the ALT and symptoms consistent with cushings are present, consider adrenal function testing (ACTH stim)

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- Consider Fine needle aspirate if round cell neoplasia is on your differentia list (25 g needle, normal coags)

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If the bilirubin continues to rise in this individual, you might consider reevaluation/reimaging to take a second look at the gallbladder for progressive change.

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There is hard shadowing material visualized within the stomach. This could be ingesta, treats, etc. If this patient has been strictly fasted, this could represent ingested foreign material. Correlate with abdominal radiographs and clinical picture. If there is concern for ingested foreign material, continue the fast and consider reimaging (abdominal radiographs +/- ultrasound) in 12-24 hours.

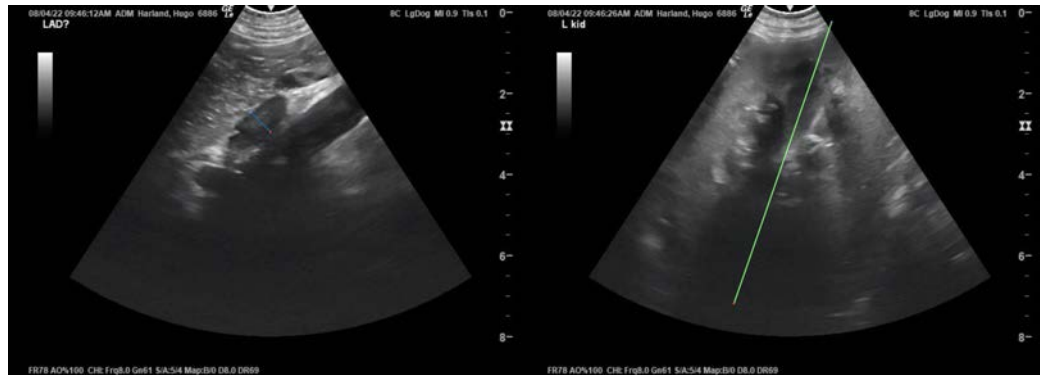
Consider three view thoracic radiographs to rule out concurrent thoracic disease/involvement.

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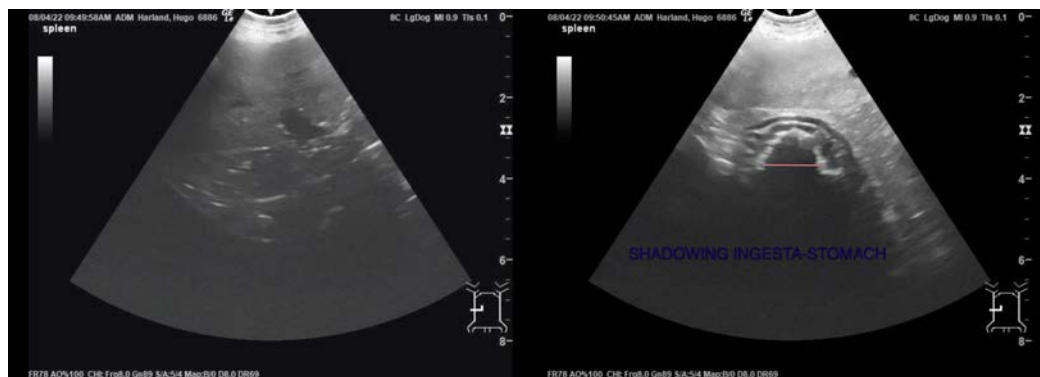
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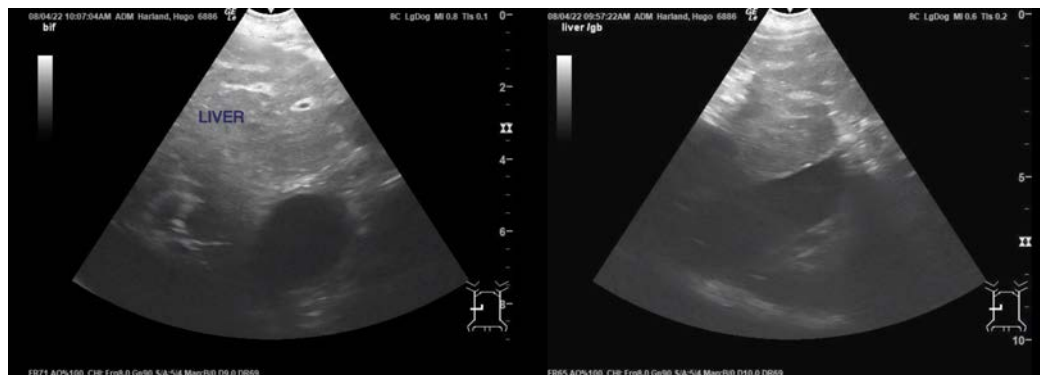
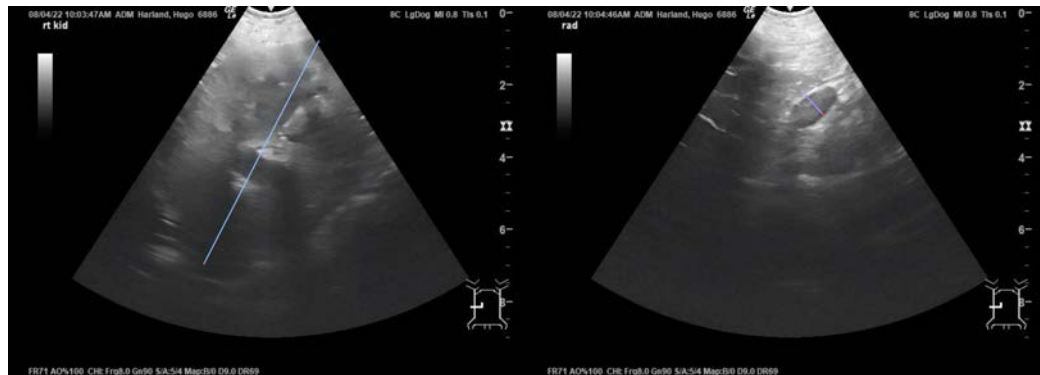
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

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