



**PATIENT PRESENTING CLINICAL SIGNS**

Harper Novotny History: Chronic loose stool, no improvement with diet change. Medication: Metronidazole 70mg BID

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Feline

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Primarily anechoic urine was present in the lumen. Mild nondependent particulate sediment was present, which may indicate mild cellular debris/protein, crystalline debris, lipid or mucus without evidence of calculus formation. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.

**BREED**

DSH

**SEX**

Spayed Female

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 3.5 cm in length. The right kidney measured 4.0 cm in length.

**AGE**

2021

**Adrenal Glands**

**WEIGHT**

10.9 Pounds

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.35 cm.

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.40 cm.

**INTERPRETED BY**

R. McKenzie Daniel,  
 DVM, DABVP  
 (Canine and Feline)

**Spleen**

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
 ARDMS/RVT

**Liver**

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion.

**HOSPITAL NAME**

Maple Hills VH

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**REFERRING VET**

Dr. Eckman

**Gastrointestinal**

The stomach presented intact wall layering with a normal wall layer ratio. Minor retained anechoic pyloric fluid was noted without evidence of retained gastric ingesta or foreign material. The gastric body wall measured 0.25 cm.

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**PATIENT** Harper Novotny  
The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. No overt pathology at the level of the ileocolic junction. The small intestinal wall measured 0.25 cm.

**SPECIES**  
The colon exhibited sonographically wall layering. The colon contained semi-formed to soft fecal matter consistent with patient history.

Feline  
**Pancreas**

**BREED**  
The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

DSH

**Free Abdomen**

**SEX**

Spayed Female  
Intermittent to multiple, mildly prominent to enlarged mesenteric lymph nodes were present primarily in the mid abdomen. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5).

**AGE**

2021

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

10.9 Pounds

- Urinary bladder sediment
- Overtly normal gastrointestinal tract with mild retained pyloric fluid
- Normal colon containing semi-formed/soft fecal matter
- Intermittent to multiple, mildly prominent benign/reactive mesenteric lymph nodes- mild hyperplasia, reactive lymphadenitis, immunologic immaturity possible. The lymph nodes are not consistent with overt inflammatory or neoplastic criteria.

**INTERPRETED BY**

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**IMAGING PERFORMED BY**

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ARDMS/RVT

Dietary intolerance/food allergy even with recent diet change, dysbiosis, structurally insignificant inflammatory bowel, low grade to chronic pancreatitis or occult parasitism could be possible in this case.

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Further assessment may include a GI panel to include PLI/TLI/Cobalamin/Folate, fresh fecal analysis to assess for parasitic ova/giardia, as well as a diarrhea PCR panel. Hydrolyzed lower carbohydrate or higher fiber diet trial, broad spectrum deworming especially if the patient is indoor/outdoor, high colony count probiotic, empirical cobalamin supplementation pending assessment of cobalamin levels, and as needed gastrointestinal support with assessment of clinical response would be reasonable. Potential for long term dietary therapy may be indicated.

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**WEIGHT**

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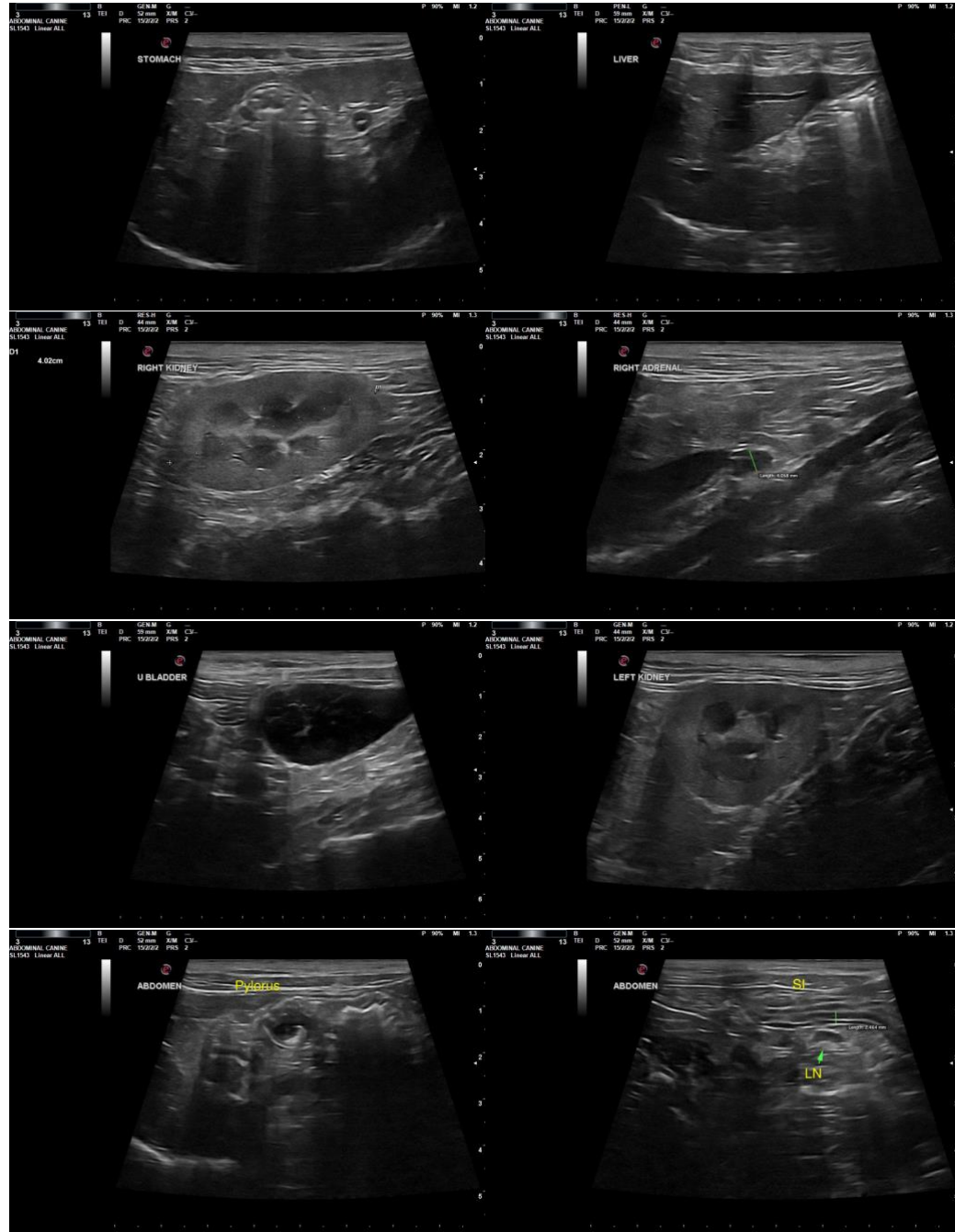
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

**R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)**



**PATIENT** info@SonoPath.com

Harper Novotny

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Feline

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

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**WEIGHT**

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