



**PATIENT**

Angus Ferreira

**PRESENTING CLINICAL SIGNS**

History: Patient presents for vomiting, abdominal distention, and decreased appetite. No current meds.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: TP 4.8, glob. 1.9.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

Scottish Terrier

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

**SEX**

MN

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 5.5 cm in length. The right kidney measured 4.9 cm in length.

**AGE**

5 yr

The area of the aortic trifurcation was free of pathology.

**WEIGHT**

NA

The residual prostate was normal measuring 1.3 cm in diameter.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.42 cm width at the caudal pole and 1.7 cm. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.63 cm width at the caudal pole and 2.0 cm.

**INTERPRETED BY**

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

**Spleen**

The spleen exhibited at least one hypoechoic nodule in the cranial spleen measuring 1.9 cm in diameter. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.

**IMAGING PERFORMED BY**

Kelly Vazquez

**Liver**

The liver was subjectively normal in size with areas of mild asymmetrical contour. Multiple hypoechoic well demarcated intraparenchymal nodules were present in the liver, an example measuring 1.8 cm in diameter. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**HOSPITAL NAME**

Glen Rock Veterinary  
Hospital

**REFERRING VET**

Dr. Stekler

**Gastrointestinal**

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

**INVOICE**

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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.

**DATE**

06/22/2022

Normal visible colon wall layers were present with apparent formed feces in lumen.



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***Pancreas***

Angus Ferreira

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.

**SPECIES**

Canine

***Free Abdomen***

Diffuse variably sized hypoechoic to swollen intra-abdominal lymph nodes to likely lymphatic masses were present, an example measured 4.5 cm x 2.5 cm. Perilymphatic to generalized hyperechoic mesentery and small pockets of scant peritoneal free fluid were observed.

**BREED**

Scottish Terrier

A brief assessment of the thorax revealed concurrent suspected thoracic lymphadenopathy vs pulmonary nodules, an example measuring 2.1 cm in diameter.

**SEX**

MN

**ULTRASONOGRAPHIC FINDINGS**

- Diffuse variably sized hypoechoic to swollen intra abdominal lymph nodes to likely lymphatic masses
- Concurrent hepatosplenic hypoechoic nodules
- Perilymphatic to generalized hyperechoic mesentery and scant free fluid
- Concurrent suspected thoracic lymphadenopathy vs pulmonary nodules

**AGE**

5 yr

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

NA

Unfortunately the sonographic abnormalities are consistent with multicentric likely high grade neoplasia i.e. lymphoma or other round cell neoplasia. Pending lymphatic cytology, oncology consult is recommended with immediate chemotherapeutic intervention. This case is non surgical.

**INTERPRETED BY**

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**WEIGHT**

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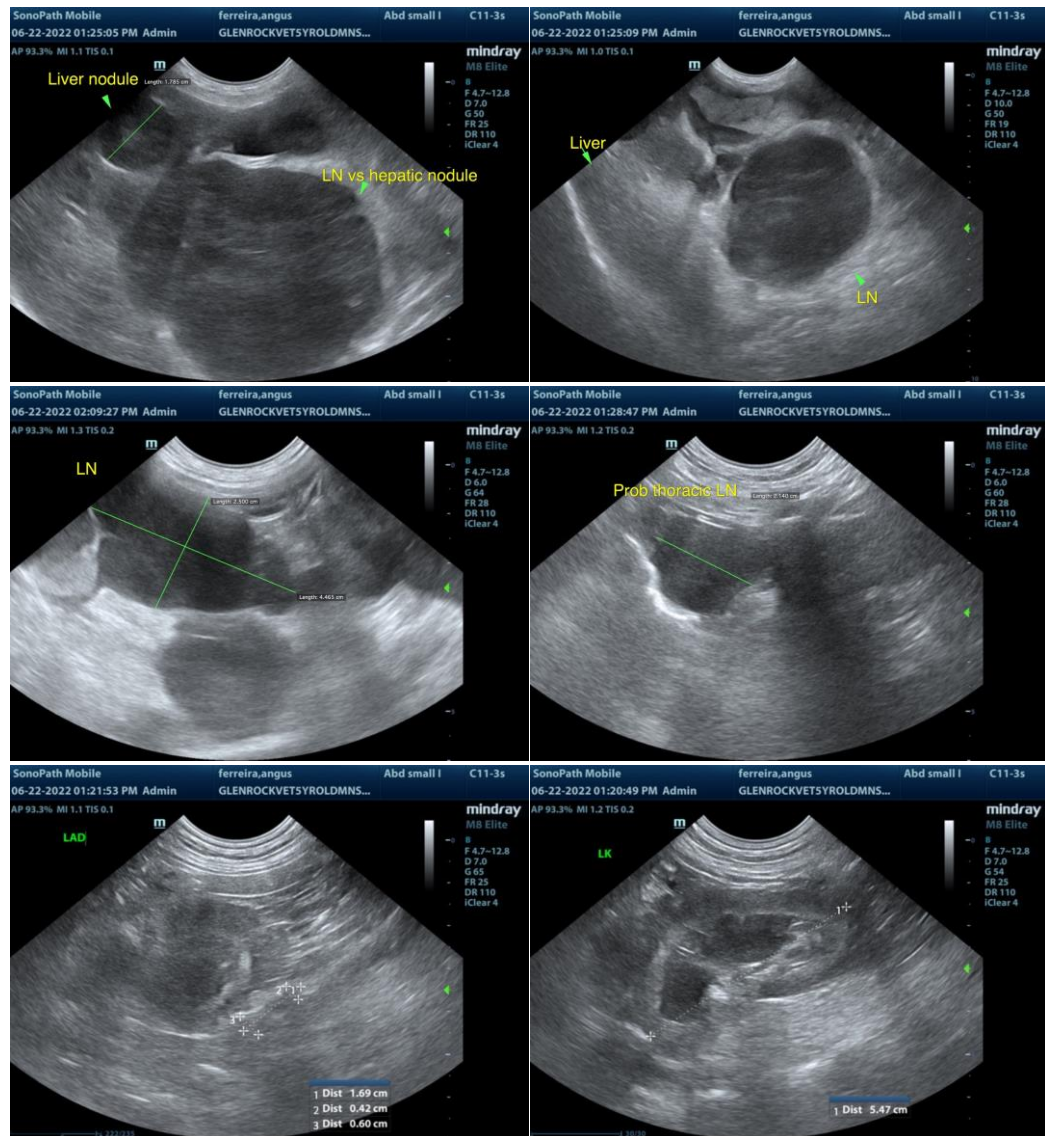
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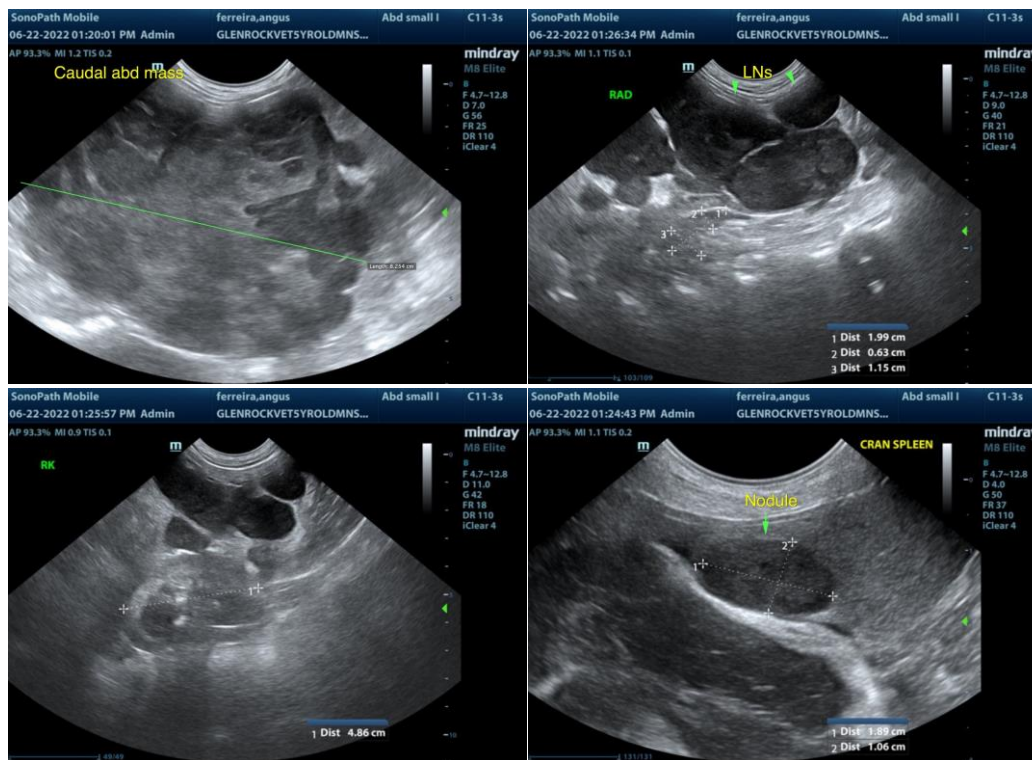
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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