



PATIENT PRESENTING CLINICAL SIGNS

Luna Elrod Non-symptomatic, elevated liver values. Was on amox/Clav and Denamarin with no improvement in March 2021. March 3/5/21: Bile acids pre-meal: <1.0, Bile acids post meal :17.5. No clinical signs. Abnormal PE/Chem/CBC/UA Results: 3/5/21: ALT 374. 7/14/21: ALT 406, potassium 5.6, Na/K ratio 26.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Maltese

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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

Intact Female

The area of the aortic trifurcation was free of pathology.

AGE

1 Year

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 right kidney measured 3.8 cm. The left kidney measured 3.6 cm.

Adrenal Glands

WEIGHT

8.4 Pounds

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.26 cm at the cranial pole and 0.33 cm at the caudal pole. The right adrenal gland measured 1.4 cm length x 0.71 cm at the cranial pole and 0.39 cm at the caudal pole.

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

Kelly Vazquez

Liver

The liver exhibited normal size given the patient body size. Normal overall hepatic parenchyma echogenicity with mild to moderate coarse echotexture. Normal hepatic vascular volume was present. The visualized portal vein exhibited normal structure and cranial branching with similar size to the caudal vena cava. The portal vein measured 0.51 cm in width compared to the vena cava, which measured 0.52 cm in width. 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

The Venturing Vet

REFERRING VET

Dr. Marisa Herzog

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild echogenic, nonshadowing ingesta most consistent with post prandial presentation without signs of ileus, obstruction or foreign material.

INVOICE

24814

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

8/19/21

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



PATIENT

Pancreas

Luna Elrod

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

The uterus was normal and measured 0.72 cm in width. Both ovaries were normal in size. The left ovary measured 1.1 cm. The right ovary measured 1.6 cm. Focal cystic components noted in both ovaries, which may suggest follicles.

BREED

Maltese

PRIMARY FINDINGS

- Hepatopathy with normal vascular volume
- Sonographically unremarkable gallbladder and common bile duct

SEX

Intact Female

SECONDARY FINDINGS

- Mild gastric ingesta – likely recent meal ingestion

AGE

1 Year

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of a portosystemic vascular anomaly in accordance with the bile acid test, sonographically unremarkable portal vein, and normal hepatic vascular volume. Primary hepatic parenchymal disease with differentials including non-specific hepatitis or other non-specific hepatopathy with unlikely potential for microvascular hepatopathy possible. Hepatic core biopsy is likely required for definitive diagnosis. No indication for antibiotic therapy given the lack of previous response. However, continued hepatosupportive medications including Denamarin, Vitamin E and Ursodiol due to its antioxidant and immunomodulatory effects within the liver are suggested. No overt anesthetic contraindications.

WEIGHT

8.4 Pounds

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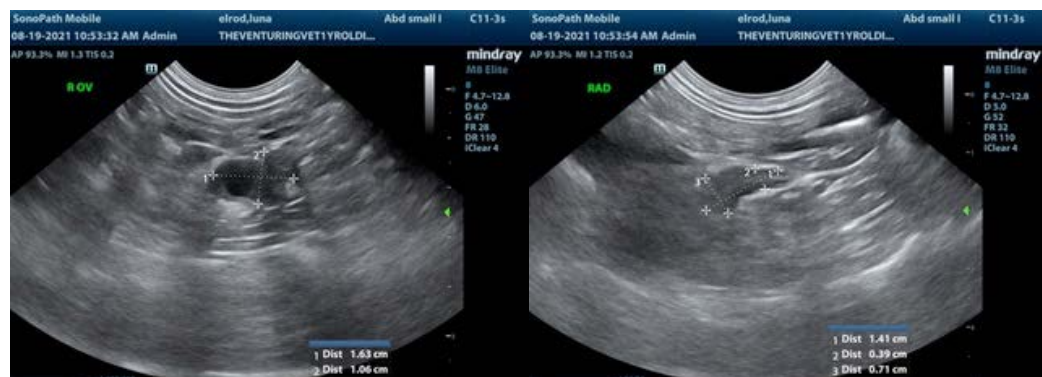
Dr. Marisa Herzog

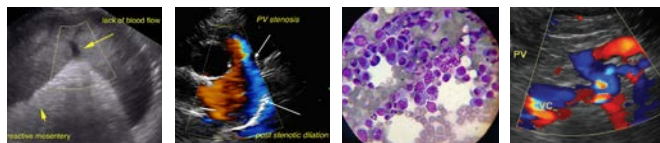
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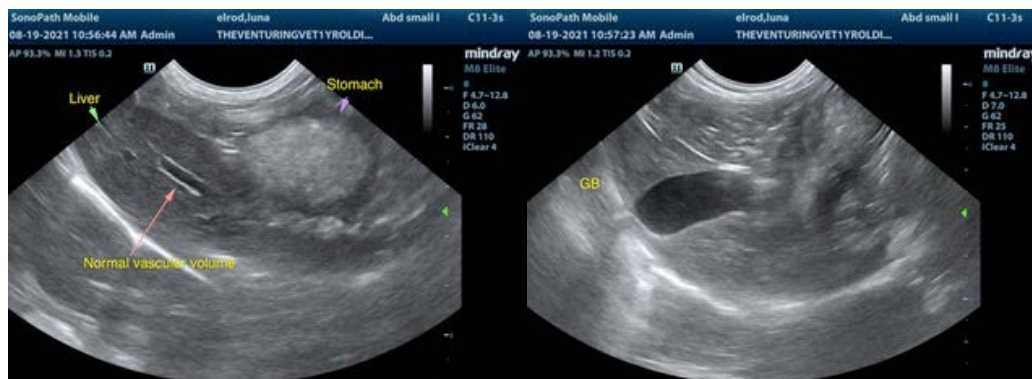
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)
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