


PATIENT PRESENTING CLINICAL SIGNS

Stella Lim Elevated ALT 356 and Globulins 35, ALB 60, GGT 190, T. Bili 99, TP 95, Cholesterol 8.6. Ultrasound liver. No meds.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED

Goldendoodle

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

FS

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

AGE

10yr

The area of the aortic trifurcation was free of pathology.

Adrenal Glands
WEIGHT

60lb

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.58 cm width at the caudal pole and 2.2 cm length. The right adrenal gland was indistinctly visualized.

Spleen
INTERPRETED BY

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

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

Crystal Hill

Liver
HOSPITAL NAME

St. Catharines Animal
 Hospital

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

Gastrointestinal
REFERRING VET

Dr. Boctor

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

11663ag

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.

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

Pancreas
DATE

09/19/2022



PATIENT

Stella Lim

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

No overt lymphadenopathy or peritoneal effusion was present.

BREED

Goldendoodle

ULTRASONOGRAPHIC FINDINGS

- Benign hepatopathy
- Sonographically unremarkable gallbladder and CBD

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SEX

FS

Overall, the appearance of the liver was non-specific yet consistent with benign hepatopathy. Considerations given the ALT elevation include reactive hepatopathy, inflammatory/immune mediated disease, toxic (copper) hepatopathy or other. Assuming normal clotting status, an ultrasound guided FNA of the liver for screening cytology for identification of the inflammatory cell type if present is warranted. Hepatic core surgical biopsy is likely required for a definitive diagnosis. Hepatoprotective medications such as Denamarin +/- Ursodiol due to its antioxidant and immunomodulatory effects within the liver as well as potential for non-obstructive hepatic cholestasis may prove beneficial. Hepatic or hydrolyzed diet trial may be considered if evidence of antigenic stimulation on cytology.

AGE

10yr

WEIGHT

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(Canine and Feline)

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HOSPITAL NAME

St. Catharines Animal
Hospital

REFERRING VET

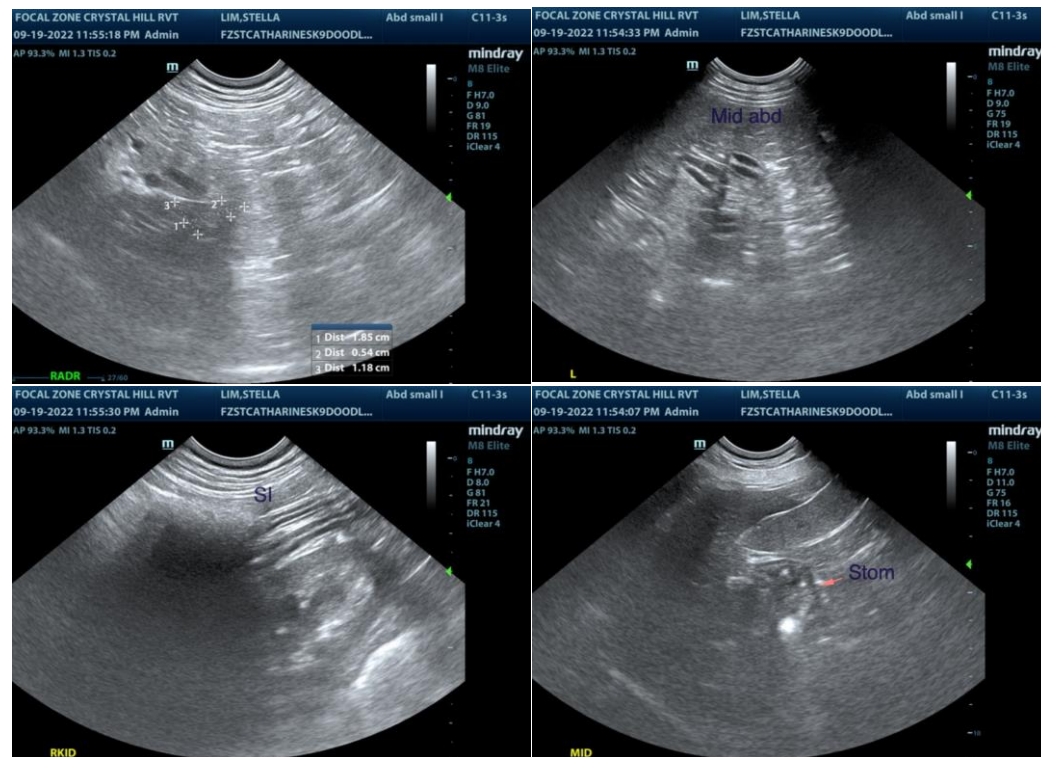
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SPECIES

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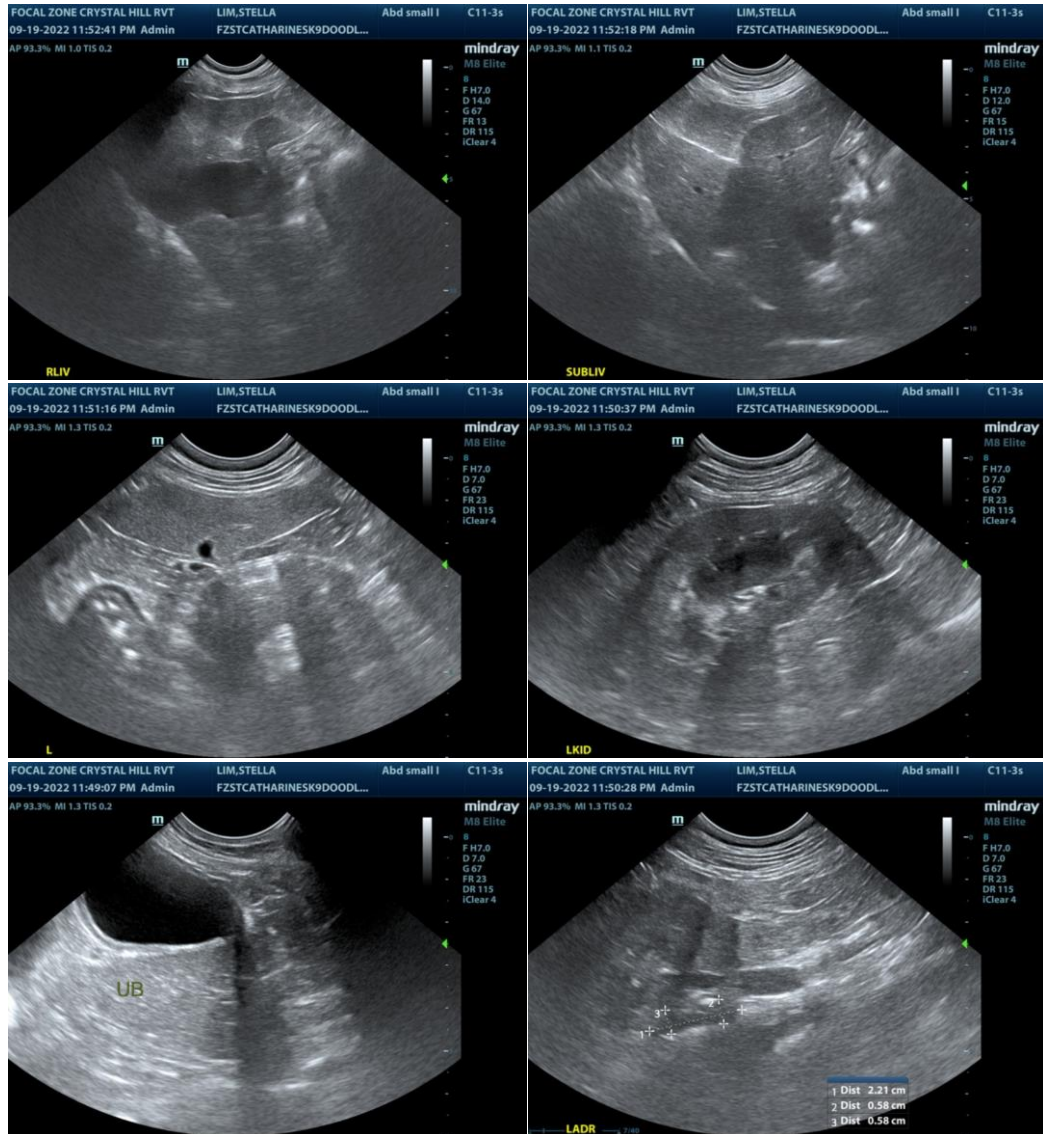
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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