



PATIENT PRESENTING CLINICAL SIGNS

Captain Orton

History: Routine bloodwork - hx of mildly elevated ALT in the fall, returned to normal values on sAME's and has stayed on since. Had an episode of collapse? in May, NSF on work up after event - UTD on vaccines including leptospirosis - has diabetes insipidus meds: Denamarin, Bravecto, Interceptor Plus, Desmopressin 3 drops BID

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: ALT 219 (ref 18-121) AST 172 (ref 16-55) BUN 12.7 (ref 3.2 - 11.0)

BREED

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Lab

Urinary System

SEX

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4 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.

MN

AGE

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The right kidney exhibited potential for mild subnormal size compared to the left yet is not considered clinically significant. 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 6.4 cm in length. The right kidney measured 6.1 cm in length.

WEIGHT

31 kg

The area of the aortic trifurcation was free of pathology.

The area of the residual prostate was free of pathology.

INTERPRETED BY

Adrenal Glands

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

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.80 cm width at the caudal pole and 0.65 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.70 cm width at the caudal pole.

IMAGING PERFORMED BY

Spleen

Kelly Reschny

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.

HOSPITAL NAME

Graham Animal
Hospital

REFERRING VET

Liver

Dr. Seager

The liver was subjectively normal in size, structure, and contour. The liver parenchyma exhibited subjective decreased echogenicity with moderate coarse echotexture and subtle prominence of portal vascular borders. No masses or nodules noted. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

INVOICE

10907ag

Gastrointestinal

DATE

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.

06/22/2022



PATIENT

Captain Orton

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.

SPECIES

Canine

Pancreas

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.

BREED

Lab

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

SEX

MN

ULTRASONOGRAPHIC FINDINGS

- Low grade hepatopathy-subjectively benign
- Overtly normal bilateral kidneys

AGE

5

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overall the liver was nonspecific, yet is consistent with benign potential for nonspecific low grade hepatitis (viral, bacterial, immune mediated) is suspected given the mild elevated ALT/AST combination with potential for reactive or vacuolar hepatic changes. No evidence of hepatic neoplastic criteria was observed. Hepatosupportive medications including current Denamarin +/- Ursodiol due to its antioxidant and immunomodulatory effects within the liver may prove beneficial. Assuming normal clotting status, a screening FNA of the liver could be considered to assess for inflammatory cells.

No overt evidence of a portosystemic shunt which is thought unlikely. Hepatic function is likely normal assuming normal ALB, GLU and CHOL levels. Bile acid testing could be considered for further assessment if clinically indicated. Hepatic core surgical biopsy is likely required for a definitive diagnosis and could be considered if progressive hepatic enzyme elevations are noted.

WEIGHT

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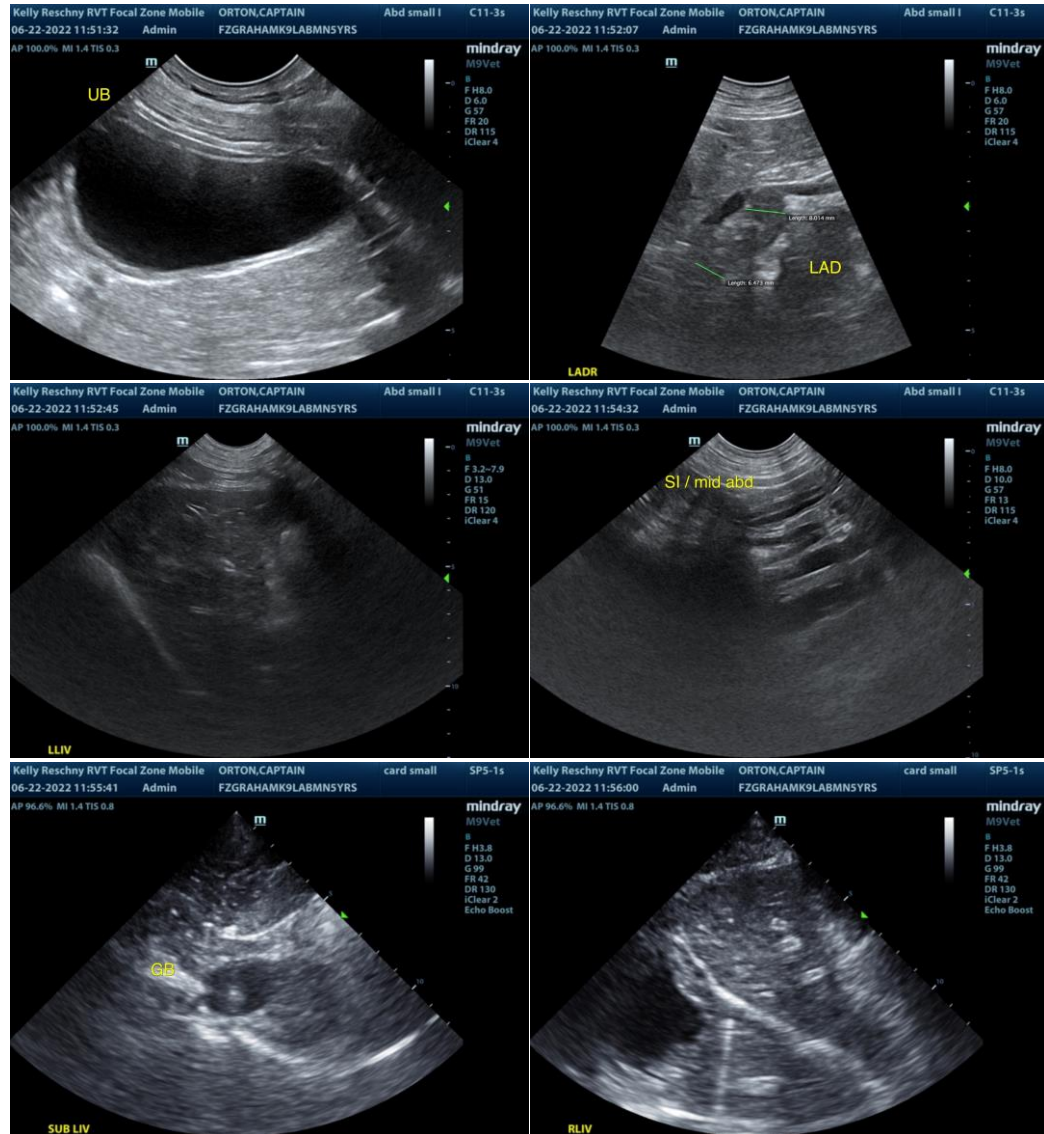
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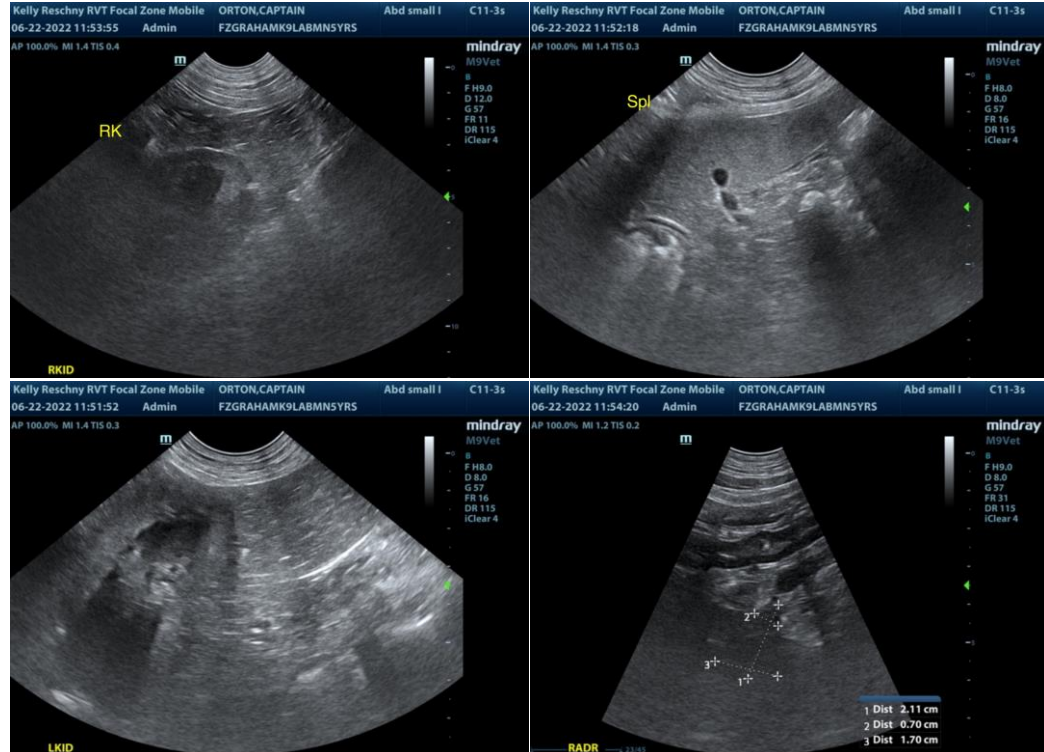
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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