



PATIENT PRESENTING CLINICAL SIGNS

Lola Walcavage
 History: Seizure activity, elevated renal values, mild UTI with transitional cells Phenobarbitol 11.25 BID, Clavamox Labs: Albumin 5.1, ALP 339, AST 111, ALT 60, GGT 27, total bilirubin 0.6, BUN 18, creat 0.3, phosphorus 6.9, cholesterol 348, triglyceride 597, Precision PSL 159, unremarkable CBC, specific gravity 1.046, trace protein, negative glucose

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED Urinary System

Chihuahua Mix

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 sediment or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

SEX

Spayed Female

No overt pathology in the area of the aortic trifurcation.

AGE

2018

Normal size and margination was 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 3.25 cm in length. The right kidney measured 3.5 cm in length. Focal areas of medullary mineral were present in both kidneys.

WEIGHT

7.4 Pounds

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 1.5 cm in length x 0.41 cm width at the caudal pole.

INTERPRETED BY

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

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 1.2 cm in length x 0.34 cm width at the caudal pole.

Spleen

IMAGING PERFORMED BY

Rebekah Jakum, CVT
 ARDMS/RVT

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

Maple Hills VH

Liver

REFERRING VET

Dr. Eckman

The liver was mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. No overt evidence of a portosystemic shunt.

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The gallbladder was non distended in size with mild nondependent nonorganized gallbladder debris with primarily anechoic content. The gallbladder was otherwise normal without evidence of gallbladder or peripheral gallbladder inflammation. The cystic duct and common bile ducts were normal without evidence of dilation.

DATE

5/16/22

Gastrointestinal



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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.

SPECIES

Canine

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.

BREED

Chihuahua Mix

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.

SEX

Spayed Female

Free Abdomen

No omental masses, lymphadenopathy or peritoneal effusion was present.

AGE

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ULTRASONOGRAPHIC FINDINGS

- Hepatopathy- subjectively benign
- Mild gallbladder debris (non-mucocele)
- Overtly normal kidneys with focal medullary mineral
- Sonographically unremarkable urinary bladder- no evidence of inflammatory or neoplastic criteria and without sediment/calculi

WEIGHT

7.4 Pounds

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

The overall liver was nonspecific yet consistent with benign hepatopathy with potential considerations including metabolic, vacuolar, reactive, hepatotoxic insult, inflammatory hepatopathy without overt evidence of portosystemic vascular anomaly or neoplastic criteria. Potentially, some contribution to the elevated liver enzymes may be secondary to phenobarbital. Leptospirosis titers/PCR may be considered if clinically indicated endemic to the area or potential exposure. Hepatic FNA, assuming normal clotting status, could be considered for screening cytology, primarily to assess for evidence of inflammatory cells.

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An obvious cause of the seizure activity was not definitively evident within the abdominal cavity.

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Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

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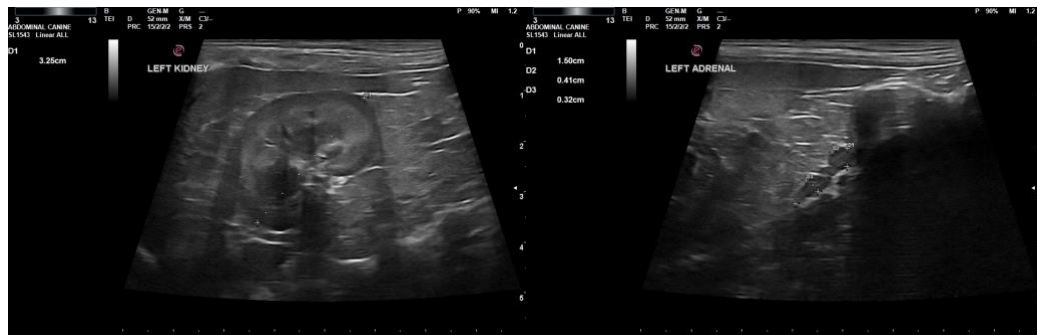
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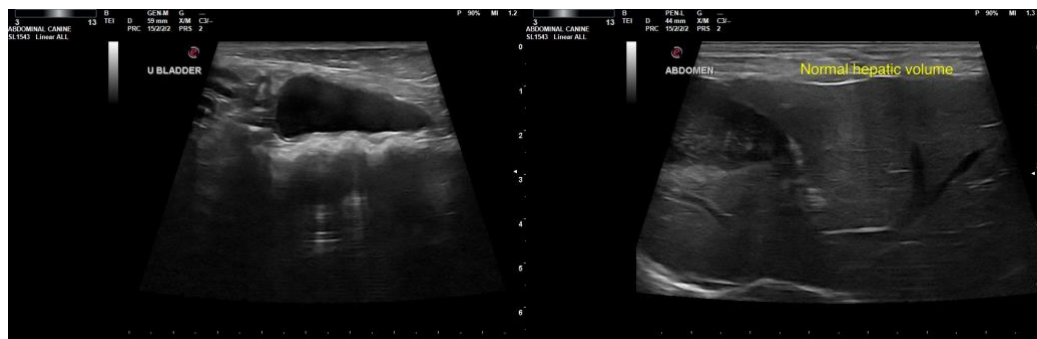
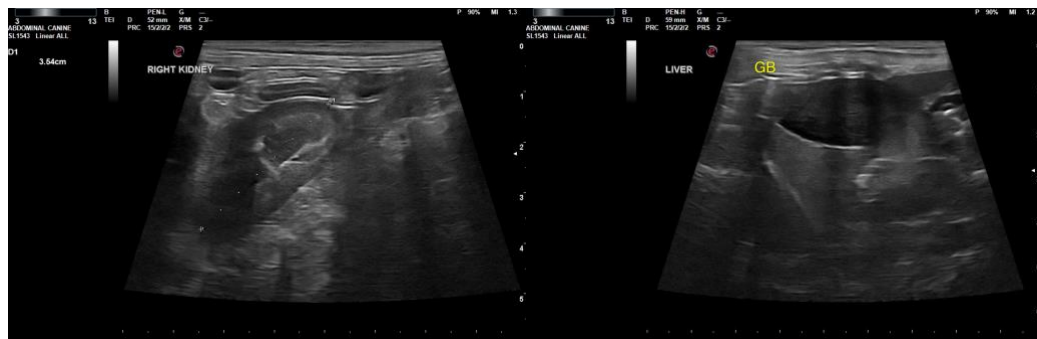
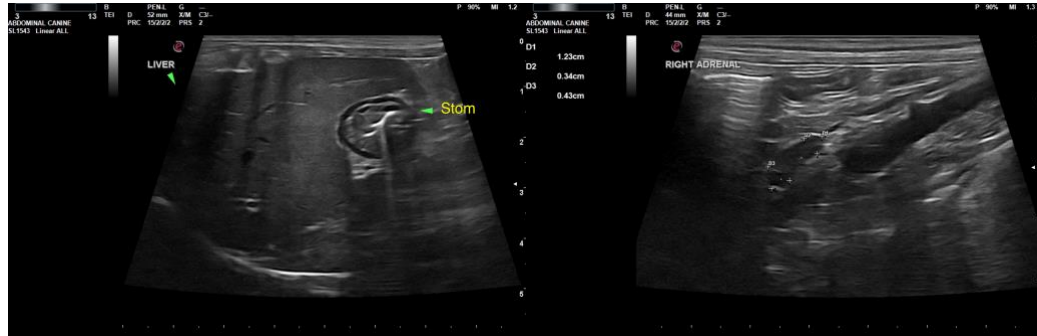
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



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