

PATIENT PRESENTING CLINICAL SIGNS

Reggie Conway

Young dog, found elevated liver enzymes at previous clinic on routine pre-neuter sx bloodwork. Was put on some supplements and improved. This year routine bloodwork revealed elevated ALT/AST. History of chronic diarrhea which eventually responded to home-cooked diet. History of allergic skin disease. Has been on Trazodone and gabapentin prior to ultrasound due to high stress personality and very tense. Last liver flare up in 2021 responded well to Clav/Metro.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: HW 4dx negative, Spec CPL 80(normal), CBC normal, Glucose Mildly decreased, ALT 210(18-121), AST 74(16-55), creatine kinase 453(10-200)

BREED

Morkie

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Neutered male

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

AGE

2 years

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 4.19 cm.

WEIGHT

6.6 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 1.36 x 0.88 cm at the cranial pole and 0.6 cm at the caudal pole. The left adrenal gland measured 1.35 x 0.46 cm at the caudal pole and 0.3 cm at the cranial pole.

IMAGING PERFORMED BY

Crystal Hill

HOSPITAL NAME

East Credit VH

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

REFERRING VET

Dr. Webster

INVOICE

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Liver

The **liver** was slightly subnormal in size, yet there was no evidence intrahepatic or extrahepatic shunting. The portal vein was normal in size at 0.5 cm. The portal vein to vena cava ratio was 1:1 with no evidence of portosystemic shunting present. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic

DATE

4/20/22



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lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

SPECIES

Canine

Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

BREED

Morkie

Pancreas

SEX

Neutered male

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

AGE

2 years

ULTRASONOGRAPHIC FINDINGS

Structurally unremarkable abdomen with minor microhepatica.

WEIGHT

6.6 kg

There was no evidence of portosystemic shunting.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Bile acid profile is warranted to assess if portal hypoplasia may be an issue. Otherwise, non-specific inflammatory hepatopathy, possible reactive hepatopathy and diet change could be considered. Hydrolyzed diet and 7-10 days of Amoxicillin and Metronidazole is recommended along with reassessment of the liver values. Otherwise, more specific therapy should be based on FNA results.

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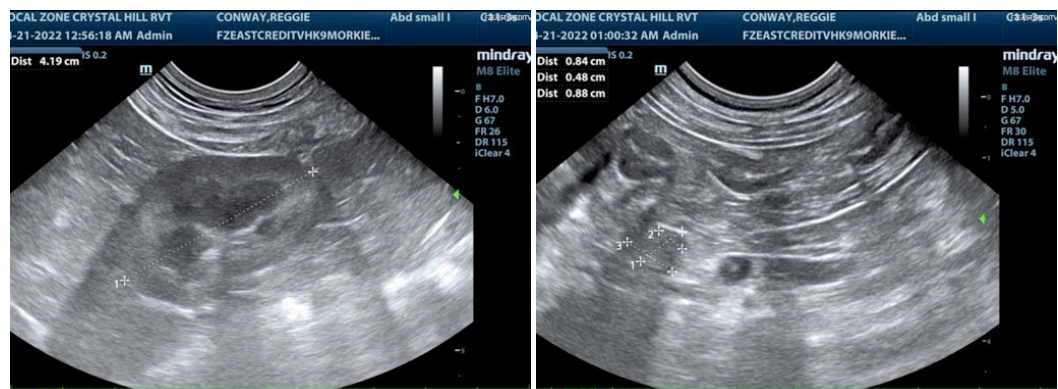
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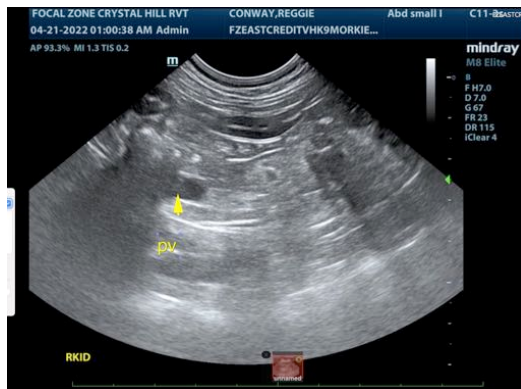
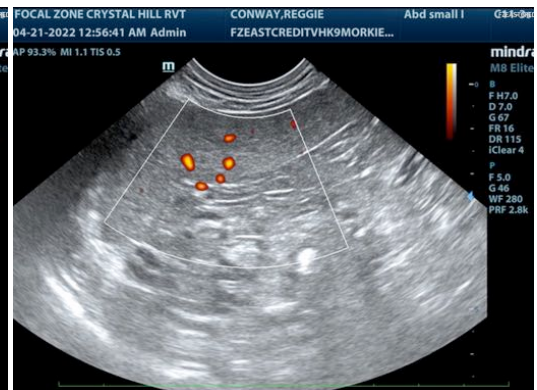
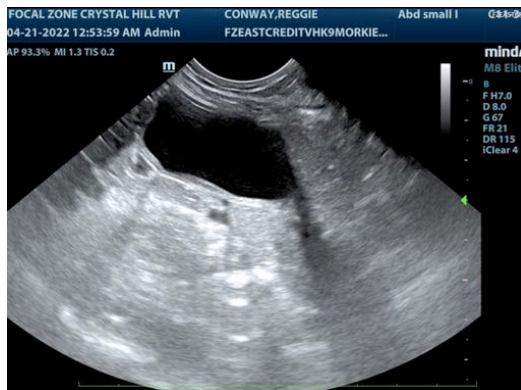
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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