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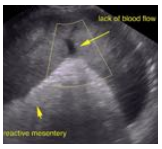
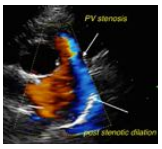
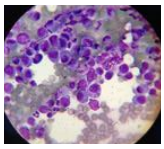
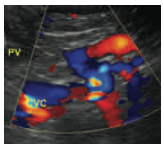
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT
Spot Miller

SPECIES
Canine

BREED
Rat Terrier

SEX
Neutered male

AGE
9 years

WEIGHT
15.6 lbs

INTERPRETED BY
Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY
Brian Klug

HOSPITAL NAME
Sondel Family VC

REFERRING VET
Dr. Mohney

INVOICE
31159

DATE
6/21/22

PRESENTING CLINICAL SIGNS

History: ALT (and AST) are both climbing despite Denamarin. recommended AUS with Brian as next step. pending AUS results, consider referral to internal med for biopsies or starting ursodiol. will figure out game plan based on AUS results
Abnormal PE/Chem/CBC/UA Results: grade IV/VI left apical systolic heart murmur, grade III/VI right apical systolic heart murmur ALT 420 U/L (normal range 10.0-118.0 U/L), all other values wnl on prep profile in house 2/15/22 Started on denamarin. Recheck Superchem 5/10/22 - elevated ALT 526 IU/L (normal range 12-118 IU/L) and elevated AST 73 IU/L (normal range 15-66 IU/L).

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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.

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 4.3 cm. The right kidney measured 4.51 cm with slight pinpoint mineralization.

Adrenal Glands

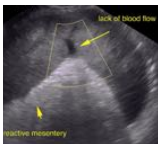
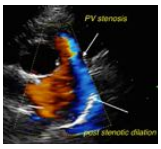
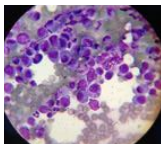
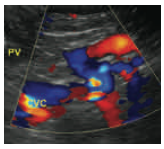
Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 0.44 cm at the cranial pole and 0.52 cm at the caudal pole. The right adrenal gland measured 0.4 cm.

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.

Liver

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic

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

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. Intestinal wall thickness measured up to 0.42 cm. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Pancreas

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.

ULTRASONOGRAPHIC FINDINGS

Structurally unremarkable liver, likely reactive hepatopathy or non-specific, low-grade inflammatory hepatopathy.

Minor renal mineralization.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA is indicated to assess inflammatory cell type. Underlying Leptospirosis titers should be obtained to rule out subclinical disease if endemic in your region.

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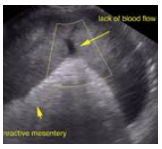
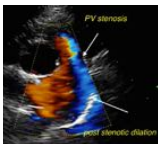
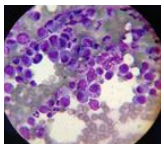
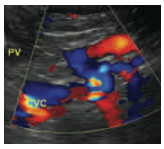

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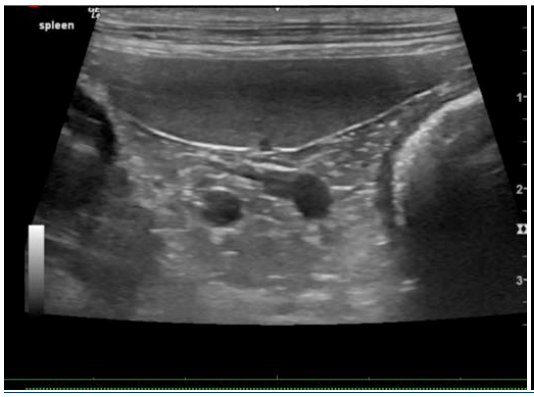

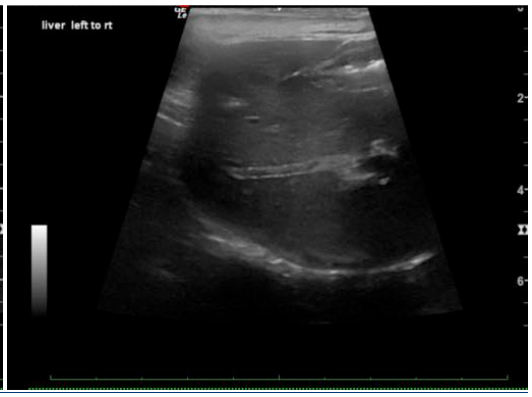

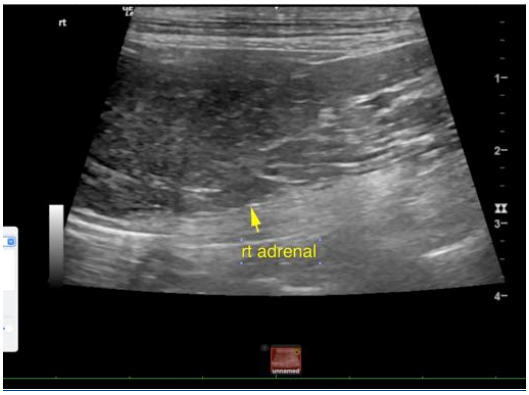

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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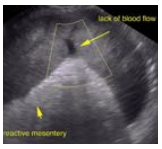

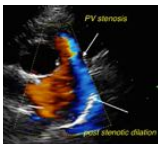

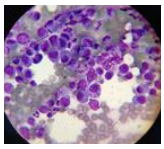
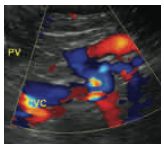

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