



PATIENT PRESENTING CLINICAL SIGNS

Lytic Butler
History: Patient presents for progressively elevating liver enzymes. Liver FNA today. Had AUS 8/27/21 : "regional hepatopathy". Now PU/PD and having accidents in house. Current meds: Denamarin, RC S/O diet.

SPECIES
Abnormal PE/Chem/CBC/UA Results: 3/13/22: AST 75, ALT 420, Alk.Phos 183. 8/14/21: ALT 165, Alk. Phos. 209 - no improvement on Baytril/Denamarin trial. U/A via cysto pending.

Canine

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Sheltie

Urinary System

SEX
Spayed Female
The **urinary bladder** and visible pelvic urethra were unremarkable for the level of repletion presented. The urine, however, did present some mildly echogenic debris consistent with mucous, exfoliated cells from renal or bladder origin, and/or blood clots as these echogenic changes can all present similarly. This is often related to urinary tract infection but may represent simple evidence of exfoliated debris or sterile inflammation. Cystocentesis, urinalysis, +/- culture would be recommended to rule out and define any UTI.

AGE

10 years

WEIGHT

34.7 lbs

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 5.27 cm. The left kidney measured 5.22 cm.

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS,
CEO of SonoPath.com

Adrenal Glands

IMAGING PERFORMED BY

Kelly Vazquez , CVT

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 1.7 x 0.6 cm at the caudal pole and 0.4 cm at the cranial pole. The right adrenal gland measured 2.34 x 0.49 cm at the caudal pole and 0.45 cm at the cranial pole.

HOSPITAL NAME

Westwood Regional
VH

Spleen

REFERRING VET

Dr. Hartwick

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.

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Liver

DATE

3/24/22

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not



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Lyrice Butler

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clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

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.

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

Non-specific, inflammatory hepatopathy.

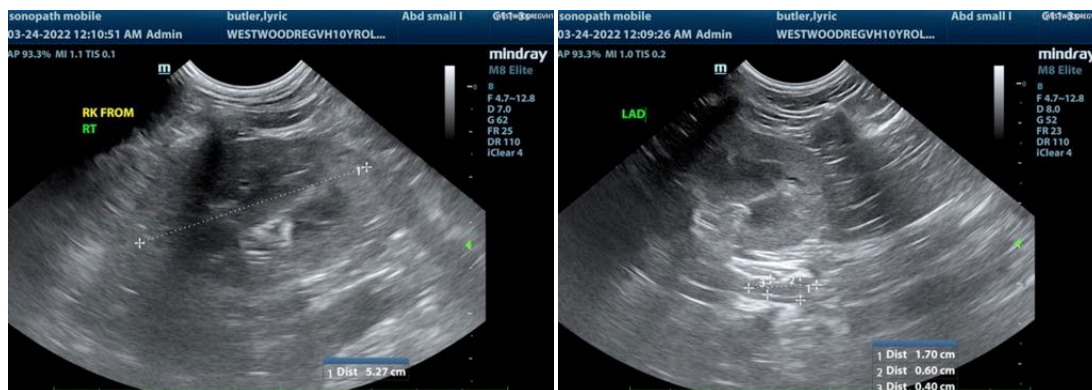
Urinary debris.

Slight amount of debris in the gallbladder.

Age related abdominal changes.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Management of the liver based on cytology results is recommended. Leptospiriosis titers are indicated to rule out occult infection.





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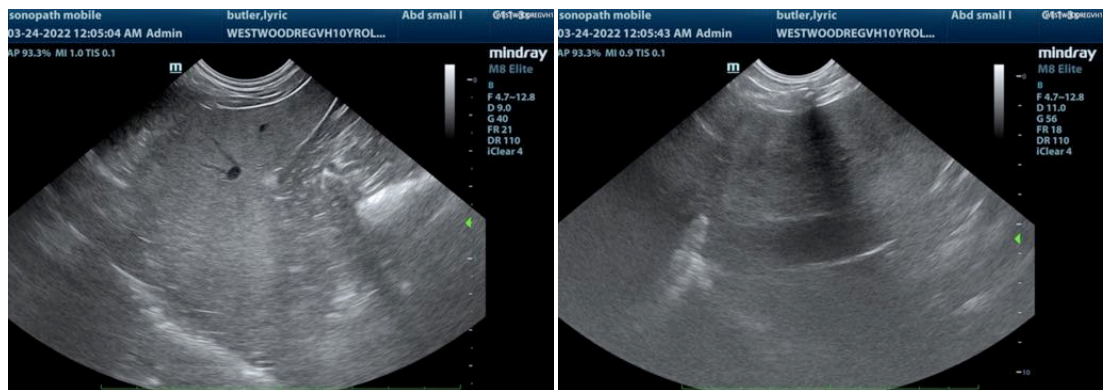
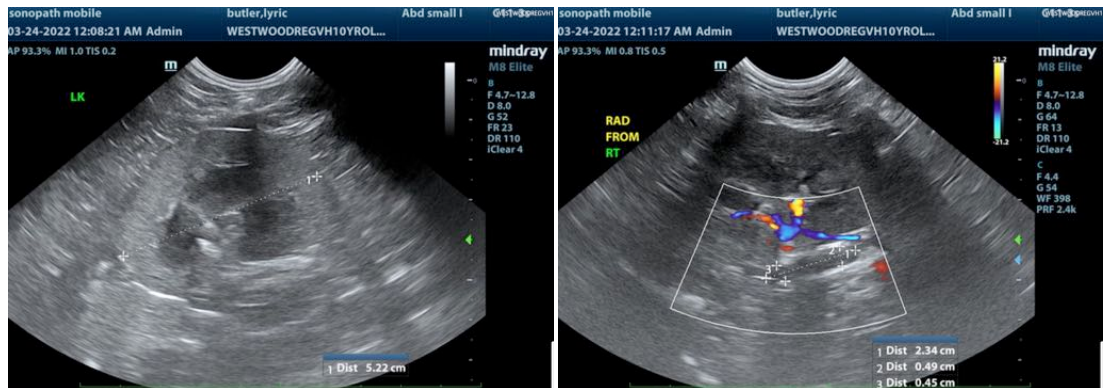
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

Info@SonoPath.com



PATIENT

Lyric Butler

SPECIES

Canine

BREED

Sheltie

SEX

Spayed Female

AGE

10 years

WEIGHT

34.7 lbs

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