



**PATIENT PRESENTING CLINICAL SIGNS**

Lytic Butler

History: Elevated liver values - no response to Baytril/Denamarin trial. Found on routine senior profile. Not symptomatic no PU/PD - significance for anesthesia for dental. Current meds: Denamarin/Heartgard/Simparica, RC Urinary S/O diet (history of severe cystitis).

**SPECIES**

Abnormal PE/Chem/CBC/UA Results: 6/1/21 - AST 93, ALT 164, Alk. Phos. 202, chol. 737, trigs 358 (not fasted), after Baytril /Denamarin. 8/14/21: ALT 165, Alk. Phos. 209, chol. 792, trigs 420. T4 2.0.

Canine

**BREED**

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Shetland Sheepdog

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction. 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.

**SEX**

Spayed Female

**AGE**

9 years

The **kidneys** presented a relatively uniform cortical hyperechogenicity when compared to the renal medulla, spleen and liver. No overt masses were noted. Corticomedullary definition was nebulous and the ratio favored the cortex slightly. The ureters were not visible and assumed to be normal. These changes are most consistent with chronic interstitial nephritis yet infiltrative disease could not be entirely ruled out without biopsy though neoplasia is not suspected. The left kidney measured 4.46 cm with slight pinpoint mineralization. The right kidney measured 5.0 cm.

**WEIGHT**

35.1 lbs

**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 1.98 x 0.41 cm at the caudal pole and 0.41 cm at the cranial pole. The left adrenal gland measured 1.7 x 0.78 cm at the caudal pole and 0.49 cm at the cranial pole.

**IMAGING PERFORMED BY**

Kelly Vazquez, CVT

**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.

**HOSPITAL NAME**

Westwood Regional  
VH

**REFERRING VET**

Dr. Hartwick

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**Liver**

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 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,

**DATE**

8/25/21



**PATIENT**

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.

Lyrice Butler

**SPECIES**

**Gastrointestinal**

Canine

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**

Shetland Sheepdog

**Pancreas**

**SEX**

Spayed Female

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**

9 years

**ULTRASONOGRAPHIC FINDINGS**

Moderate degenerative renal changes, non-specific.

**WEIGHT**

35.1 lbs

Benign hepatopathy.

Otherwise, unremarkable abdomen.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

FNA of the liver can be considered for further definition.

**IMAGING PERFORMED BY**

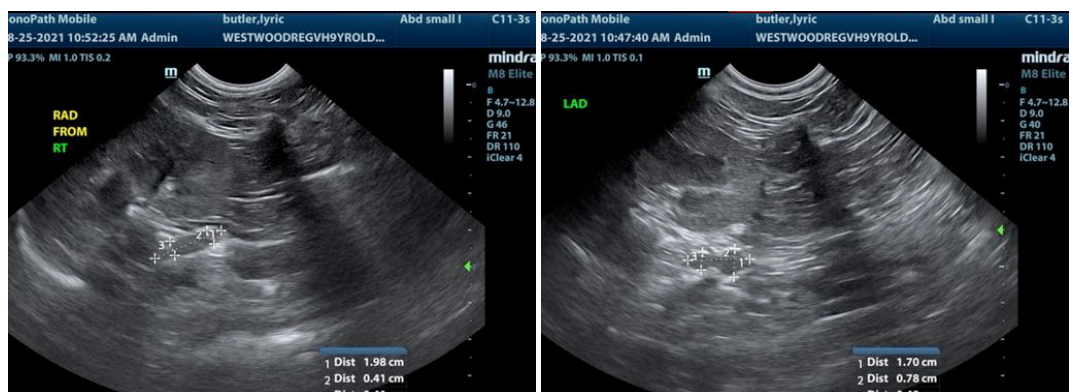
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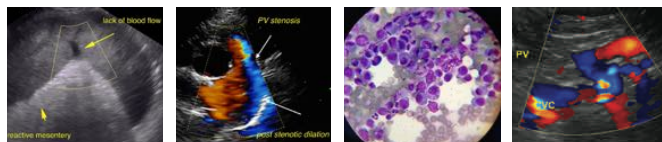


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**PATIENT**

Lyrice Butler

**SPECIES**

Canine

**BREED**

Shetland Sheepdog

**SEX**

Spayed Female

**AGE**

9 years

**WEIGHT**

35.1 lbs

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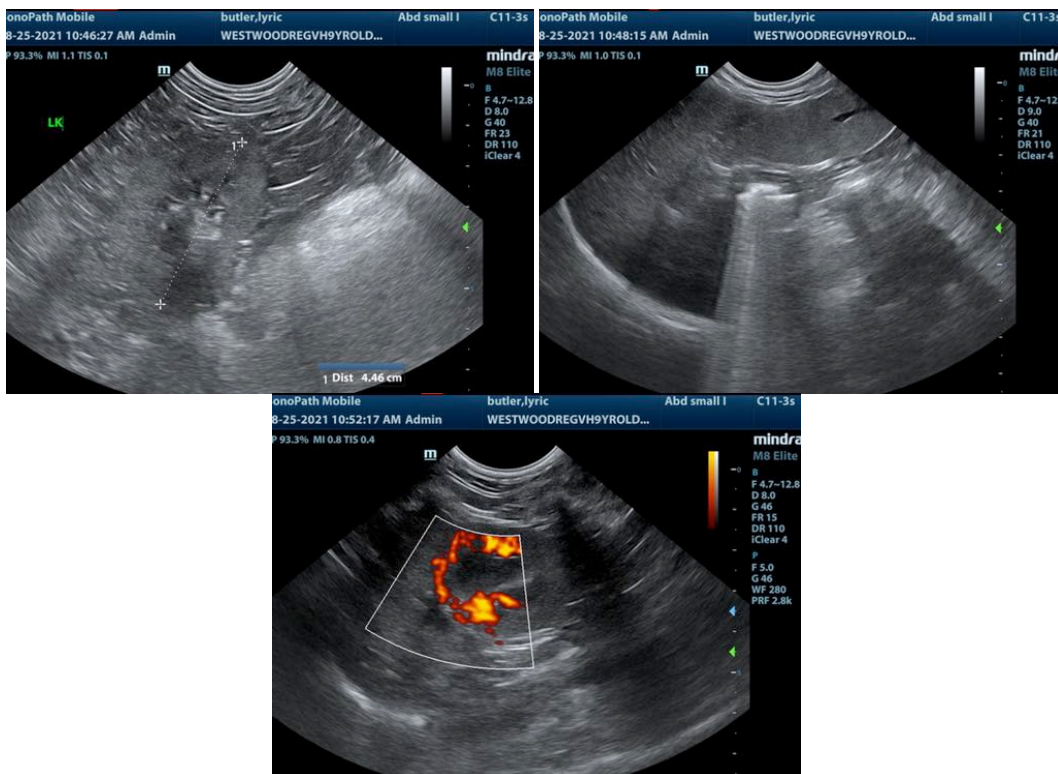
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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