



PATIENT

Ellie Lamon

SPECIES

Canine

BREED

Morkie

SEX

Spayed Female

AGE

6 Years 8 Months

WEIGHT

9.7 pounds

INTERPRETED BY

Eric Lindquist, DMV,
DABVP(CFM), Cert.
IVUSS

IMAGING PERFORMED BY

Dr. Cassie Quillen
DVM

HOSPITAL NAME

Zumbrota Veterinary
Clinic

REFERRING VET

Dr. Cassie Quillen
DVM

INVOICE

13014

DATE

01/08/2026

PRESENTING CLINICAL SIGNS

Presented from rDVM for chronic mild liver enzyme elevation. Improves with Denamarin, but patient will not take consistently. Also concerned with possible bladder stones on focused bladder scan at rDVM. Urinary tract infection found 4/2025, which resolved with antibiotics. Otherwise asymptomatic for liver and urinary issues

Abnormal PE/Chem/CBC/UA Results: 2/2024 - ALT 139 (10-125), rest wnl, started Denamarin 2/2025 - ALT 129, rest wnl 3/24/2025 - ALT 194, Bile acids pre 8, post 75.9, on Denamarin 4/23/2025 - UA 1+ calcium oxalate crystals, TNTC red blood cells, 2+ white blood cells, 3+ cocci bacteria, possible bladder stone on ultrasound, patient refusing Denamarin, started Rx urinary diet 5/13/2025 - ALT 140, rest wnl, no stone identified on ultrasound 9/23/2025 - ALT 295, rest wnl - patient had been off Denamarin, started compounded milk thistle, possible bladder stone on ultrasound 12/30/2025 - ALT 130, bile acids pre 116.3, post 61

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** was structurally normal with a slight apical polyp measuring 0.19 cm. No evidence of urinary bladder calculi yet cannot rule out the patient periodically passing calculi yet none were evident at the time of the sonogram.

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 3.55 cm in length. The right kidney measured 4.0 cm in length.

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 0.26 cm width. The right adrenal gland measured 0.51 cm width.

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



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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

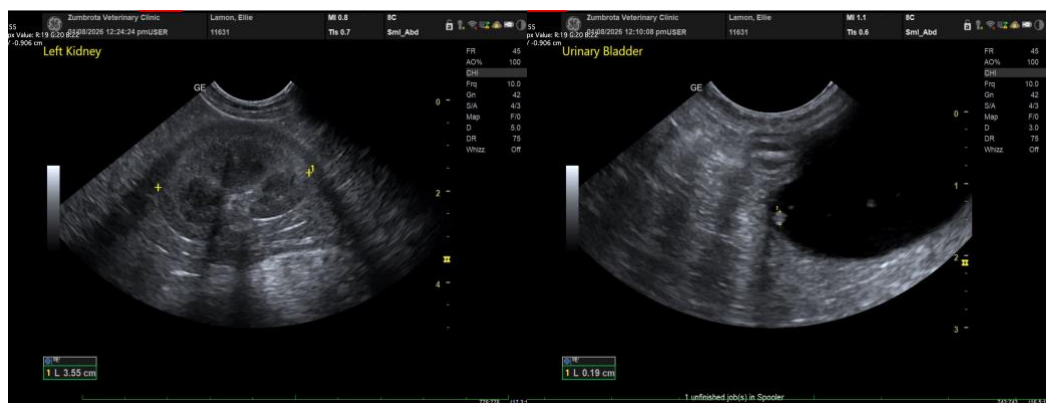
- Structurally unremarkable abdomen with a slight apical bladder polyp (not likely neoplastic).

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the liver could be considered for further definition, however it is likely reactive hepatopathy. There is no evidence of macroscopic shunting.

Hepatic Support for Bile Acid Elevation +/- Hepatic Encephalopathy

Royal Canin Hepatic Support diet or Hills L/D, Metronidazole (7.5 mg/kg PO bid) over the next 14 days, **Lactulose (Oral: 3.1-3.7 g/5 ml lactulose in a syrup base)** long term to target 2-3 soft stools/day, with a **high-quality protein supplement** of minor amount of **yogurt or cheddar cheese**. Monitor bile acids, with attention paid to dropping albumin, BUN or cholesterol. SAME and nutraceuticals as needed. **Ursodiol (10-15 mg/kg p.o. q24h)** can be considered as hepatoprotectant and to enhance bile flow. **Zinc** serum level keep between 200–500 ug/dl. If deficient then Tx zinc acetate 1-3 mg/kg/day. Gastrointestinal protectants are recommended if the patient is anorexic.





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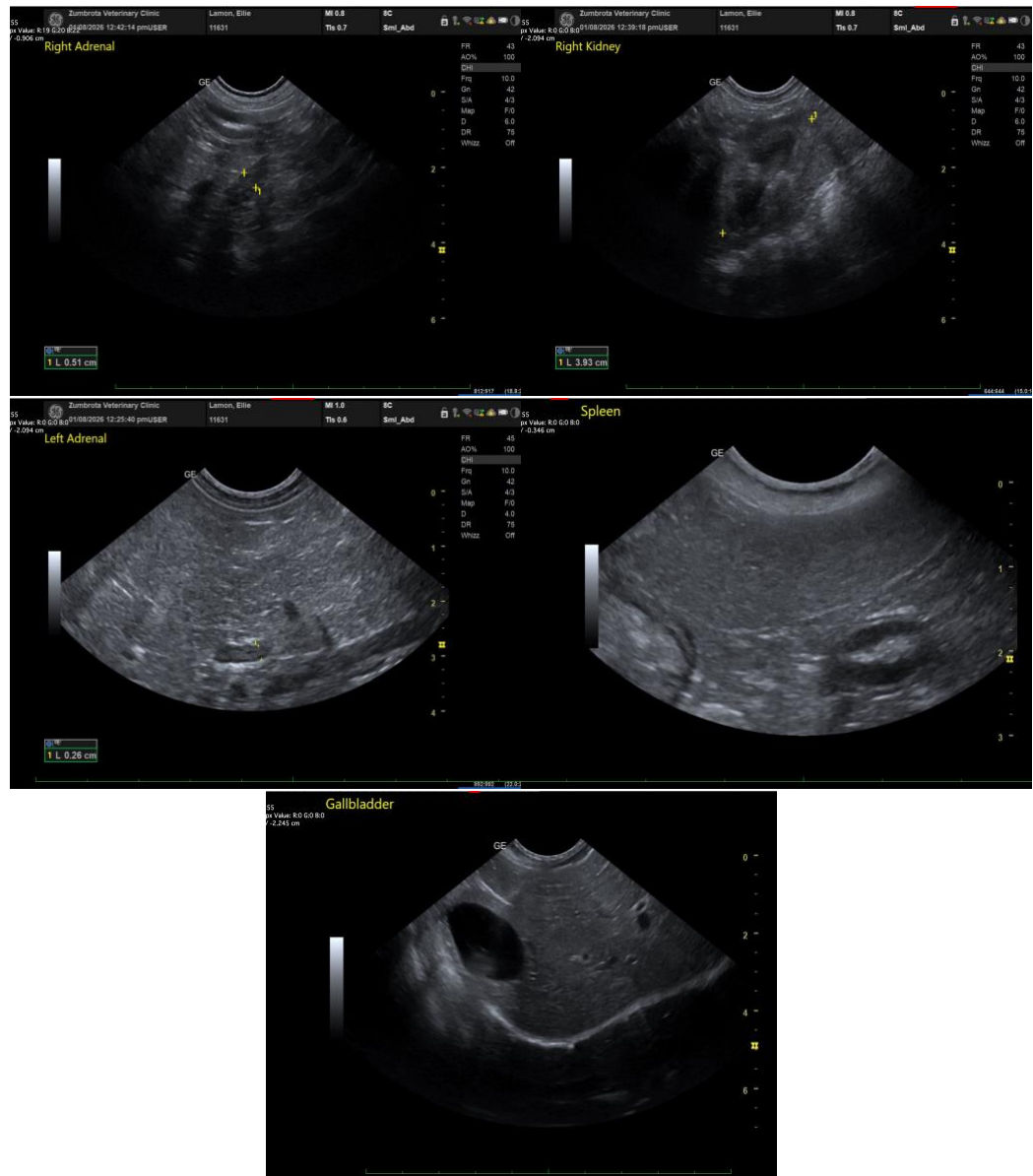
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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(CFM), Cert. IVUSS,

CEO, Owner, Founder -- SonoPath.com

info@SonoPath.com



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