



**PATIENT**

Kiera Pelican

**SPECIES**

Canine

**BREED**

Shepard Mix

**SEX**

Spayed female

**AGE**

14 years

**WEIGHT**

67.8 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUS

**IMAGING PERFORMED BY**

Dr. Jimmerson

**HOSPITAL NAME**

Willamette VH

**REFERRING VET**

Dr. Jimmerson

**INVOICE**

43449

**DATE**

3/23/23

**PRESENTING CLINICAL SIGNS**

History: Presented 3/22 for severe lethargy, trouble ambulating, hyporexia, fever, got into some brown sugar 3 day ago. No raw fish exposure. On NSAID's for arthritis.  
Abnormal PE/Chem/CBC/UA Results: PE = very dull, right popliteal lymphadenopathy, stiff gait, normal CPs. right hind pitting edema, some swelling around left hock as well, mild facial swelling - edema developed after fluid resuscitation. CBC = lymphs 0.59k, HCT 49% Chem = Glu 515, phosp 2.3, ALT 328, ALP 304, Chol 438, Lipase 5859. Albumin wnl at 3.6. Crea wnl 1.0. UA = USG 1.009, pH 8.0, glucose 4+, ketone negative, no evidence of UTI Humulin-R: 0.1 U/kg given IV: BG 1h later was 260mg/dL, 2h after admin was 93mg/dL. Follow up BGs have been around 280.

**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 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 his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The left kidney measured 7.62 cm. The right kidney measured 6.25 cm.

**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 2.62 x 0.73 cm at the caudal pole and 0.81 cm at the cranial pole. The right adrenal gland measured 0.6 cm.

**Spleen**

The **spleen** in this patient was mildly enlarged with uniform parenchyma and was folded upon itself cranially. This is a positional variant and is not pathological. There was no evidence of significant disease.

**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,



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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.

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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.

**BREED**

Shepard Mix

**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.

**SEX**

Spayed female

**AGE**

14 years

**ULTRASONOGRAPHIC FINDINGS**

Structurally unremarkable abdomen.

**WEIGHT**

67.8 lbs

Age related renal changes.

Non-specific inflammatory hepatopathy without significant hepatic changes.

**INTERPRETED BY**

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Leptospirosis titers are warranted. Coverage for regional infectious agents are indicated, yet structurally the abdomen appears unremarkable.

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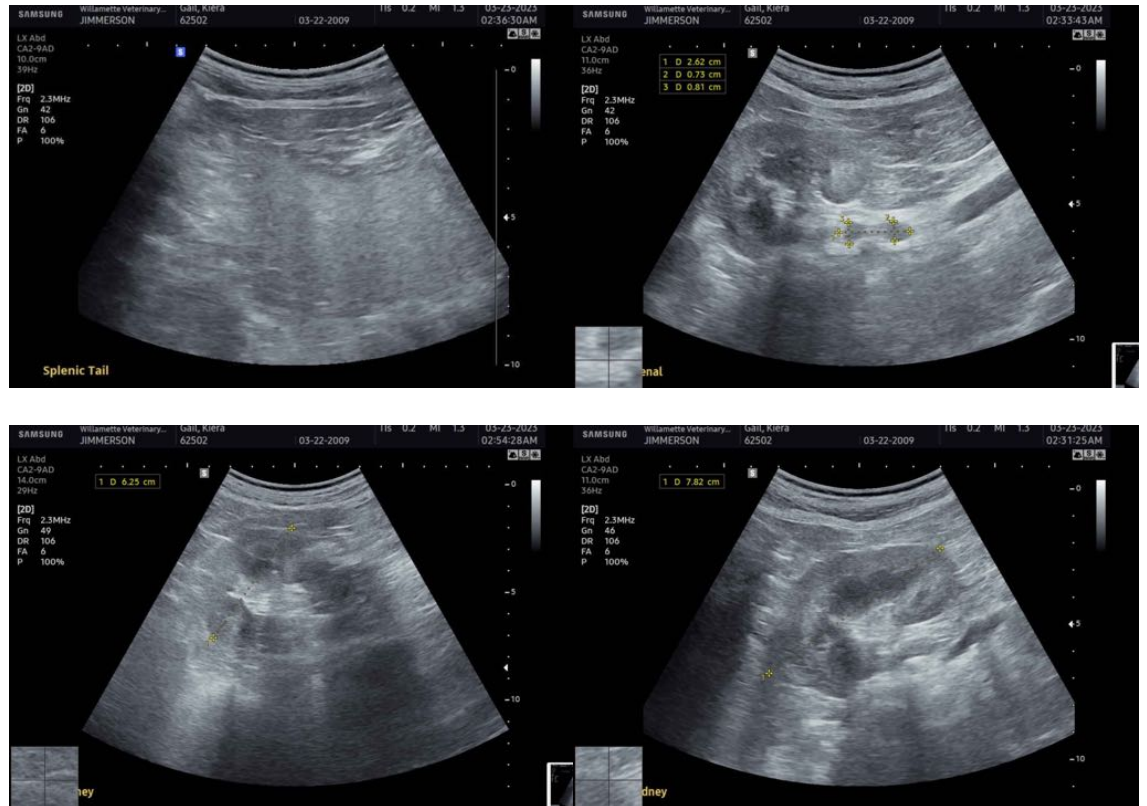
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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