

**PATIENT PRESENTING CLINICAL SIGNS**

**Bodie Stivers** Sedation- torb/alfaxalone- Elevated ALP and grade III/VI left apical holosystolic heart murmur. : Patient presented for routine blood work and a slight elevation in ALP was noted. Patient was started on milk thistle and glucosamine, this was rechecked which showed continued elevation in ALP. Patient has a history of a heart murmur, but is not showing signs of cardiac disease at this time.

**SPECIES** Canine

Abnormal PE/Chem/CBC/UA Results: Unable to obtain blood pressure- ALP 530- Increased from 460. No signs of Cushings disease at this time.

**BREED** Spaniel Mix

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**SEX** *Urinary System*

**MN** The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

**AGE**

12yr

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.9 cm in length. The right kidney measured 6.9 cm in length

**WEIGHT**

82.8lb

**INTERPRETED BY**

The area of the aortic trifurcation was free of pathology.

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

The area of the residual prostate appeared normal and free of pathology.

**Adrenal Glands**

**IMAGING BY**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.71 cm width at the caudal pole and 3.0 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.85 cm width at the caudal pole and 3.3 cm length.

Loetitia Saint-Jacques,  
LVT

**HOSPITAL NAME**

**Spleen**

Mountainview AH

The spleen exhibited normal size and contour with subtle parenchymal heterogeneity and intermittent discrete hypoechoic nodules, an example measuring 1.4 cm in diameter. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.

**REFERRING VET**

Dr. Kalivoda

**Liver**

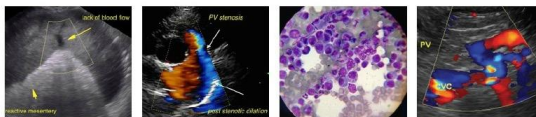
**INVOICE**

12448ag

The liver presented enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. Intermittent discrete hyperechoic nodule consistent with lipogranuloma or nodular hyperplasia was present. The liver parenchyma was

**DATE**

12/16/2022



Portable Animal Veterinary Sonography, Inc.

IMAGING PERFORMED BY  
pawsonography@gmail.com 530-786-8340

**PATIENT** uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with primarily anechoic luminal content and minor echogenic mobile debris. The cystic and common bile ducts were normal.

Bodie Stivers

**SPECIES** *Gastrointestinal*

Canine The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

**BREED**

Spaniel Mix The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

**SEX**

Normal visible colon wall layers were present with apparent formed feces in lumen.

**MN**

*Pancreas*

**AGE**

12yr

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

**WEIGHT**

82.8lb

*Free Abdomen*

**INTERPRETED BY** No omental masses, overt lymphadenopathy or peritoneal effusion was present.

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(Canine and Feline)

**ULTRASONOGRAPHIC FINDINGS**

- Vacuolar hepatopathy pattern with intermittent discrete intraparenchymal nodules-consistent with hyperplasia or lipogranuloma
- Minor gallbladder debris (non-mucocele)
- Non-specific benign discrete splenic nodules-consistent with lymphoid hyperplasia, hematopoiesis, small hematomas or similar
- Mild age-related renal changes
- Normal bilateral adrenal glands

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Mountainview AH

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

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The addition of Ursodiol to current medications may prove beneficial. No evidence of hepatic, adrenal or intra-abdominal neoplastic criteria was present. No overt suspicion of Cushing's syndrome given adrenal appearance and lack of clinical signs.

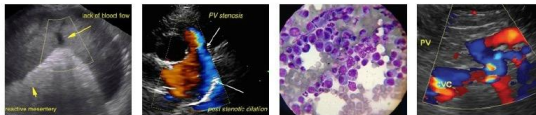
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Sonographic reassessment of the liver/gallbladder +/- hepatic sampling may be considered if progressive ALP elevation despite hepatosupportive medications.

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**SPECIES**

Canine

**BREED**

Spaniel Mix

**SEX**

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Mountainview AH

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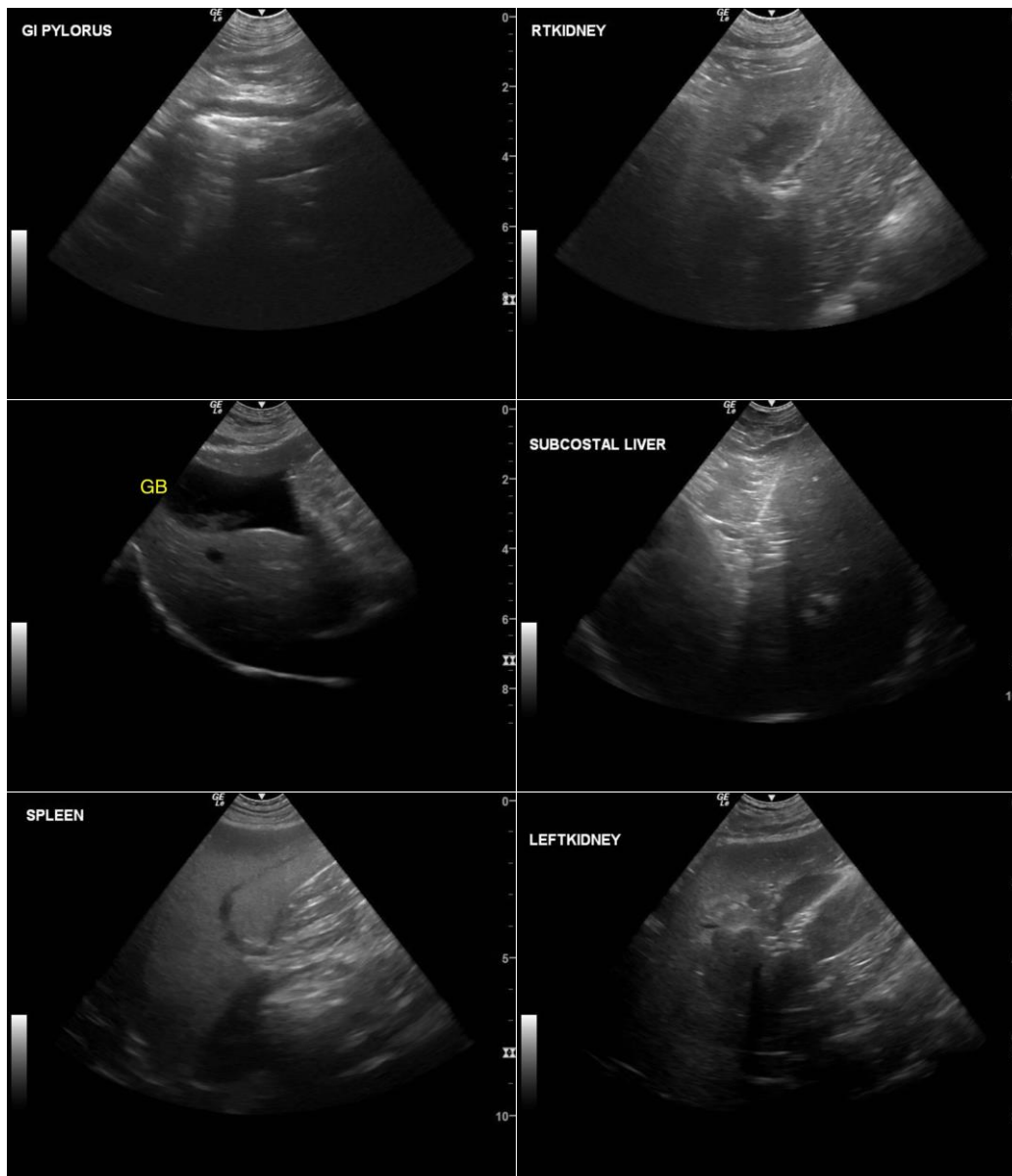
Dr. Kalivoda

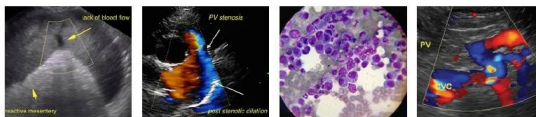
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**PATIENT**

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**SEX**

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**AGE**

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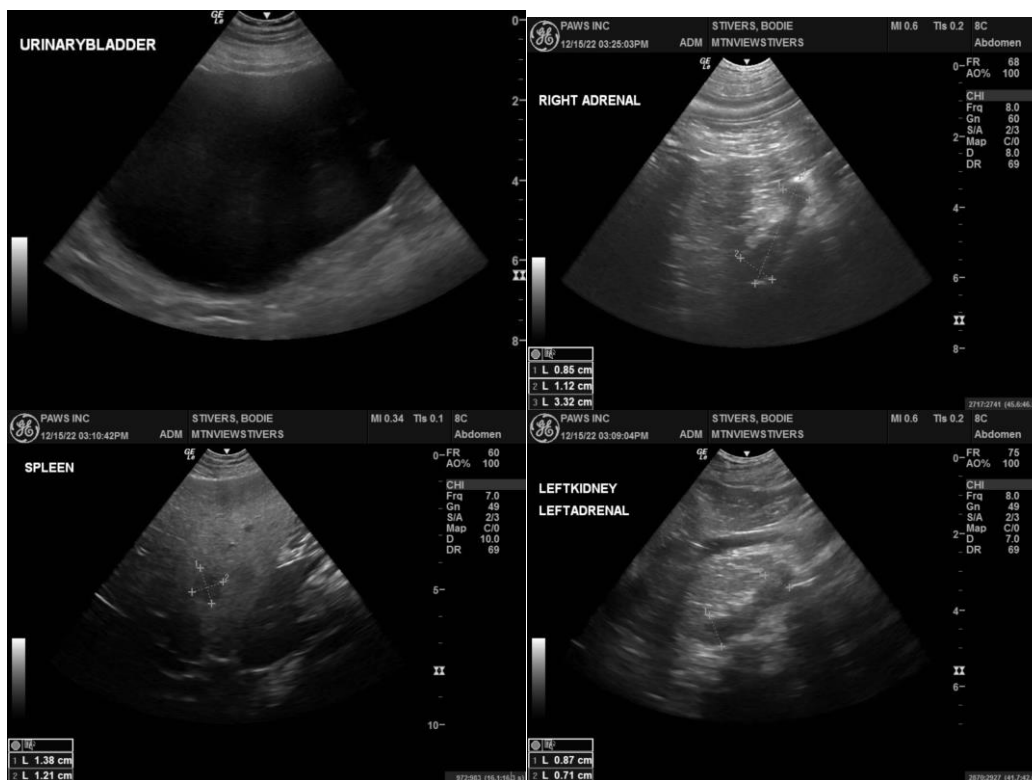
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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