



**PATIENT**

**PRESENTING CLINICAL SIGNS**

Sadie Slunt

Progressive elevation of liver enzymes over the past 3 months

**SPECIES**

Abnormal PE/Chem/CBC/UA Results: ALT 201 10 - 125 U/L ALP 785 23 - 212 U/L both increased 40 % from November

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

**Urinary System**

Rottweiler

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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.

**SEX**

FS

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 6.6 cm in length. The right kidney measured 6.8 cm in length.

**AGE**

7

The area of the aortic trifurcation was free of pathology.

**WEIGHT**

40.5kg

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.44 cm width at the caudal pole and 0.80 cm width at the cranial pole.

**INTERPRETED BY**

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

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.70 cm width at the caudal pole and 0.69 cm width at the cranial pole.

A well-defined, uniform mildly hyperechoic nodule was present in the cranial left adrenal gland with mild associated symmetrical capsule expansion. The nodule did not exhibit signs of mineralization or vascular invasion. The nodule measured 1.1 cm x 0.8 cm.

**IMAGING PERFORMED BY**

Stan Gira

**Spleen**

The spleen exhibited normal size with generalized parenchyma heterogeneity. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. No splenic masses noted.

**HOSPITAL NAME**

Resolution Veterinary  
Ultrasound

**Liver/Gallbladder**

The liver exhibited subjective mild enlargement with symmetrical capsule contour and generalized non-homogenous to irregular hepatic parenchyma. Discrete parenchyma nodular changes were present. No masses noted. The hepatic and portal vasculature were normal in appearance without signs of congestion.

**REFERRING VET**

Stan Gira, Sabadilla  
Animal Clinic

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild primarily dependent non-organized echogenic debris in the mid to cranial lumen and gallbladder neck. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

**INVOICE**

12669ag

**Gastrointestinal**

**DATE**

01/11/2023



## PATIENT

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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.

## SPECIES

Canine

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.

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

## Pancreas

## BREED

Rottweiler

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.

## SEX

FS

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

## ULTRASONOGRAPHIC FINDINGS

## AGE

7

- Mild hepatomegaly exhibiting mild non-homogenous irregular to nodule parenchyma
- Gallbladder debris-not consistent with mucocele criteria
- Heterogenous spleen-suspect benign
- Left adrenal nodule-suspect adenoma

## WEIGHT

40.5kg

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall liver presentation was non-specific with considerations including vacuolar hepatopathy, inflammatory/immune mediated disease, hematopoiesis, hyperplasia, non-obstructive cholestasis or other with neoplastic criteria considered less likely. Correlation with pending hepatosplenic cytology suggested. Hepatic core biopsy may be required for a definitive diagnosis. A leptospirosis titer/PCR may be considered if clinically indicated or if potential exposure/endemic to the area. Hepatosupportive medications such as Denamarin and Ursodiol recommended with continued monitoring of hepatic response and enzyme levels.

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(Canine and Feline)

## IMAGING PERFORMED BY

Stan Gira

## HOSPITAL NAME

Resolution Veterinary  
Ultrasound

## REFERRING VET

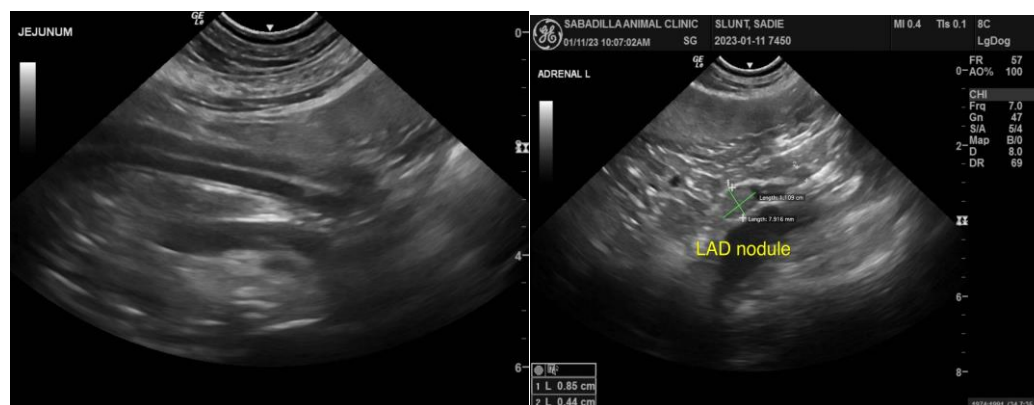
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**SPECIES**

Canine

**BREED**

Rottweiler

**SEX**

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**AGE**

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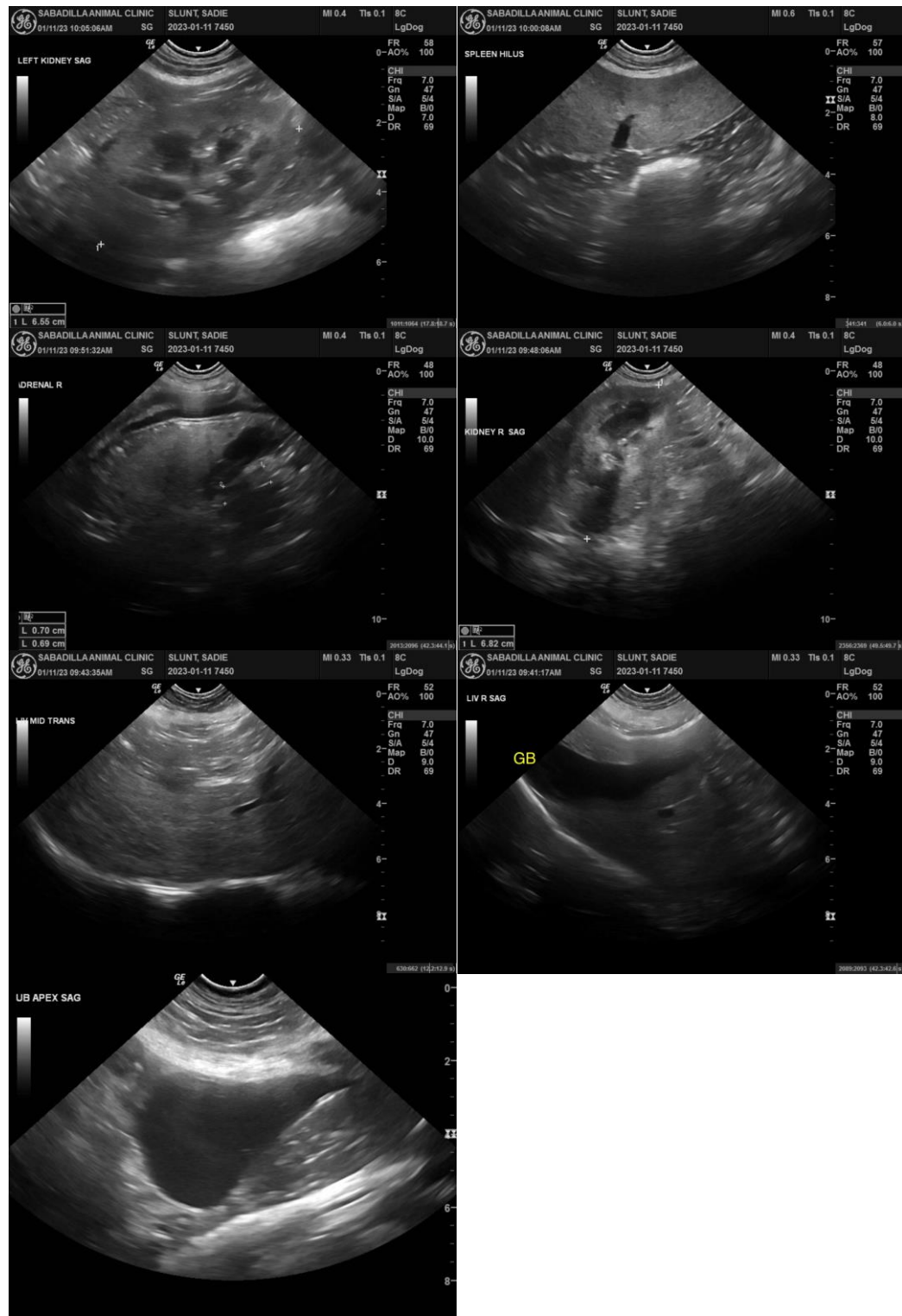
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



**PATIENT**

Sadie Slunt

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.

**SPECIES**

Canine

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**BREED**

Rottweiler

**SEX**

FS

**AGE**

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**WEIGHT**

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