

## PATIENT

Laila Stark **PRESENTING CLINICAL SIGNS**

## SPECIES

Canine

7/21/10 FS Standard Poodle BW 52# Presented 9/24/21 for increased water consumption. Blood work revealed extremely high liver and pancreatic enzymes. PE unremarkable. Peggy Roberts, DVM. ALT >4000

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

## BREED

### *Urinary System*

Standard Poodle

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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.

## SEX

Spayed Female

The area of the aortic trifurcation was free of pathology.

## AGE

11 Years

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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 7.5 cm. The right kidney measured 6.4 cm.

## WEIGHT

52 Pounds

A large, non-homogeneous, expansive liver mass was present occupying the majority of the liver, noted in the left intercostal, right intercostal, and subxiphoid views. The mass measured at least 10 cm in diameter, exhibiting non-homogeneous to mixed echogenic parenchyma. The mass appeared to expand caudally past the level of the gastric axis as well as likely into the area of the porta hepatis noted directly adjacent to the gallbladder. No overt evidence of obstruction of bile outflow or gallbladder distention. The gallbladder itself was normal. Normal hepatic parenchyma noted in the deep mid to right liver.

## INTERPRETED BY

R. McKenzie Daniel,  
DVM, DABVP

### *Adrenal Glands*

## IMAGING BY

Loetitia Saint-Jacques,  
LVT

No overt pathology in the area of the left and right adrenal glands.

### *Spleen*

## HOSPITAL NAME

Sierra Animal Wellness

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present. Intermittent subtle hypoechoic non-expansive nodules were present. Example of splenic nodule measured 0.87 cm diameter. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.

## REFERRING VET

Dr. Peggy Roberts

## INVOICE

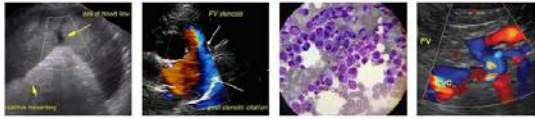
### *Liver*

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The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature

## DATE

9/29/21



## PATIENT

Laila Stark were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

## SPECIES

Canine

### ***Gastrointestinal***

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

Standard Poodle

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.

## SEX

Spayed Female

### ***Pancreas***

Sonographic assessment of the pancreas was limited owing to the hepatic mass and regional peripancreatic omental artifact.

## AGE

11 Years

### ***Free Abdomen***

No effusion. No lymphadenopathy.

## WEIGHT

52 Pounds

## ULTRASONOGRAPHIC FINDINGS

## INTERPRETED BY

R. McKenzie Daniel,  
DVM, DABVP

- Large, non-homogeneous to mixed echogenic liver mass – consistent with neoplasia, adenocarcinoma, or other. Benign etiologies such as granuloma, severe hyperplasia, hematopoiesis considered unlikely differential diagnoses.
- Non-specific, non-expansive splenic nodules – hyperplasia, hematopoiesis, focal inflammation, primary versus metastatic neoplasia possible.
- Bilateral mild chronic renal changes

## IMAGING BY

Loetitia Saint-Jacques,  
LVT

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Ultrasound guided FNA of the liver mass may be considered for screening cytology. However, given the size of the mass as well as suspected expansion into the area of the porta hepatis, complete surgical resection of the hepatic mass is considered improbable. Potential for concurrent pancreatic inflammation, which may present sonographically normal, cannot be definitively excluded. 3-view chest radiographs recommended.

## HOSPITAL NAME

Sierra Animal Wellness

## REFERRING VET

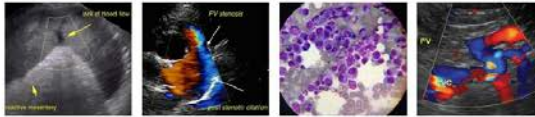
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**PATIENT**

Laila Stark

**SPECIES**

Canine

**BREED**

Standard Poodle

**SEX**

Spayed Female

**AGE**

11 Years

**WEIGHT**

52 Pounds

**INTERPRETED BY**

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**IMAGING BY**

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**HOSPITAL NAME**

Sierra Animal Wellness

**REFERRING VET**

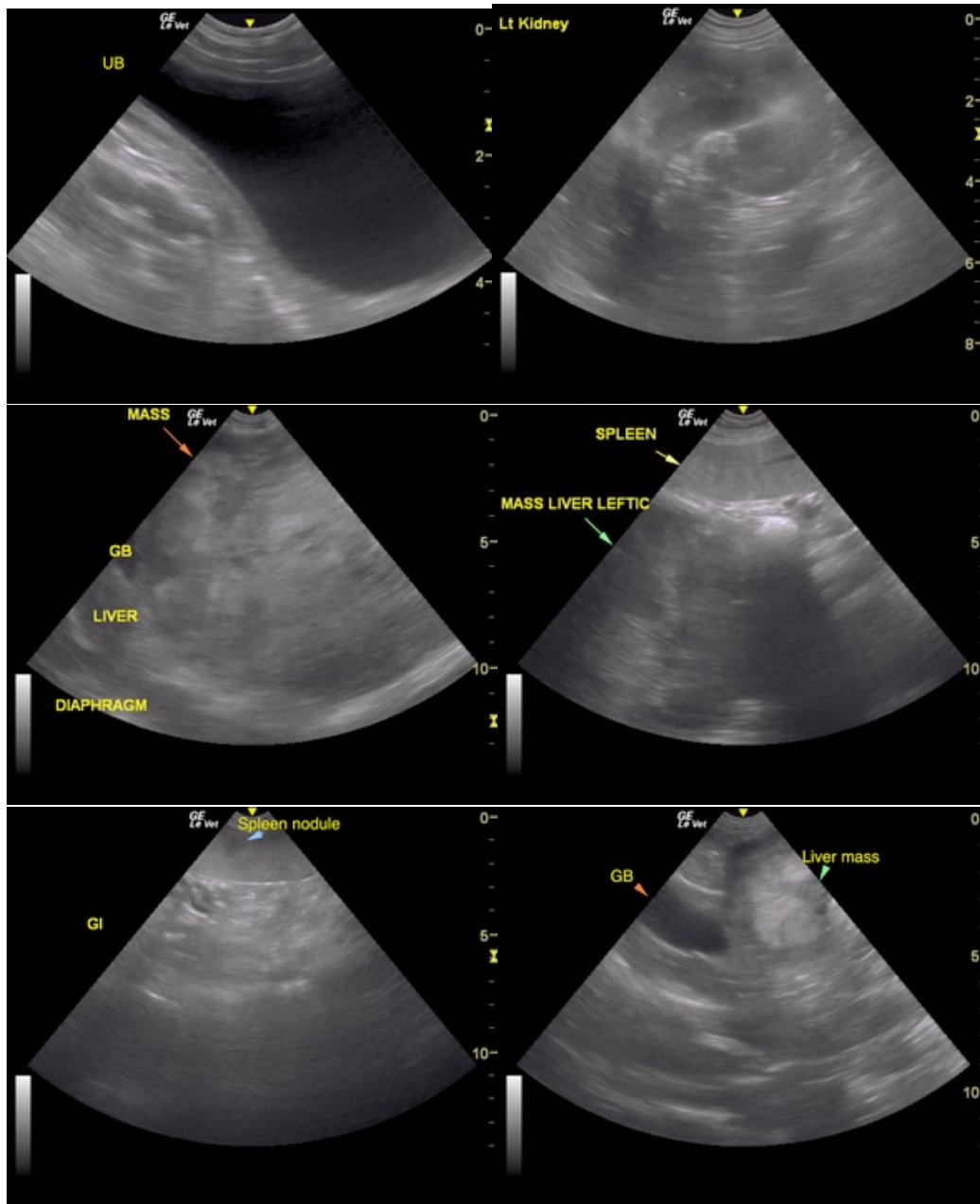
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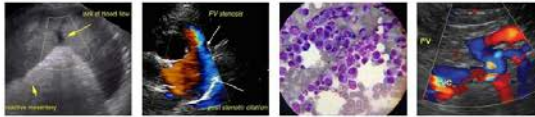
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**PATIENT**

Laila Stark

**SPECIES**

Canine

**BREED**

Standard Poodle

**SEX**

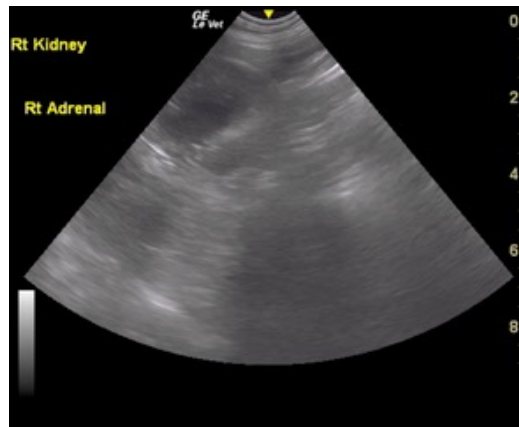
Spayed Female

**AGE**

11 Years

**WEIGHT**

52 Pounds



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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