



**PATIENT**

Barley Kamp

**SPECIES**

Canine

**BREED**

whippet

**SEX**

Male

**AGE**

10 years

**WEIGHT**

31

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Sammy Burmeister

**HOSPITAL NAME**

Faith AC

**REFERRING VET**

Dr. Faith

**INVOICE**

13121

**DATE**

1/19/22

**PRESENTING CLINICAL SIGNS**

History of increased ALT that has been continuing to rise for the past 2 years. Patient is taking denamarin. Leukopenia noted in the bloodwork as well. Not PU/PD per O and maintaining his weight. No other signs of disease

Abnormal PE/Chem/CBC/UA Results: Attached is the bloodwork done on 1/14/22

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths, sediment, or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

The residual prostate was not overtly visualized without evidence of subjective pathology.

The area of the aortic trifurcation was free of pathology.

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 5.2 cm in length. The right kidney measured 5.3 cm in length.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.47 cm width at the caudal pole and 0.5 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.5 cm width at the caudal pole.

**Spleen**

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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.

**Liver/ Gallbladder**

The liver exhibited potential for mild generalized enlargement with normal structure and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. No hepatic masses or nodules were noted. The gallbladder was non-distended in size with mild, congealed gallbladder debris present primarily in the cranial lumen. The debris was nonmineralized. The cystic and common bile ducts were normal.



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### *Gastrointestinal*

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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.

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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.

## BREED

whippet

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

## SEX

Male

### *Pancreas*

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 were evident.

## AGE

10 years

### *Free Abdomen*

No overt lymphadenopathy or peritoneal effusion was present.

## WEIGHT

31

## ULTRASONOGRAPHIC FINDINGS

### *Primary Findings*

- Low-grade hepatopathy with mild generalized parenchymal remodeling - subjectively benign
- Mild gallbladder debris (non-mucocele)
- Bilateral age-related kidneys

## INTERPRETED BY

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DVM, DABVP  
(Canine and Feline)

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Although nonspecific, the appearance of the liver in light of the mild yet progressive ALT elevation may suggest low-grade to mild progressive inflammatory hepatopathy or hepatobiliary process such as nonspecific hepatitis or cholangiohepatitis, given the concurrent gallbladder debris. The gallbladder debris may also suggest some degree of nonclinical cholestasis.

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Assuming normal clotting status, ultrasound guided FNA of the liver could be considered for screening cytology primarily to assess for or possibly identify inflammatory cell type. The addition of Ursodiol to current Denamarin may prove beneficial. No overt evidence of hepatic neoplastic criteria was present, which is considered an unlikely differential diagnosis. CBC pathology review could be considered.

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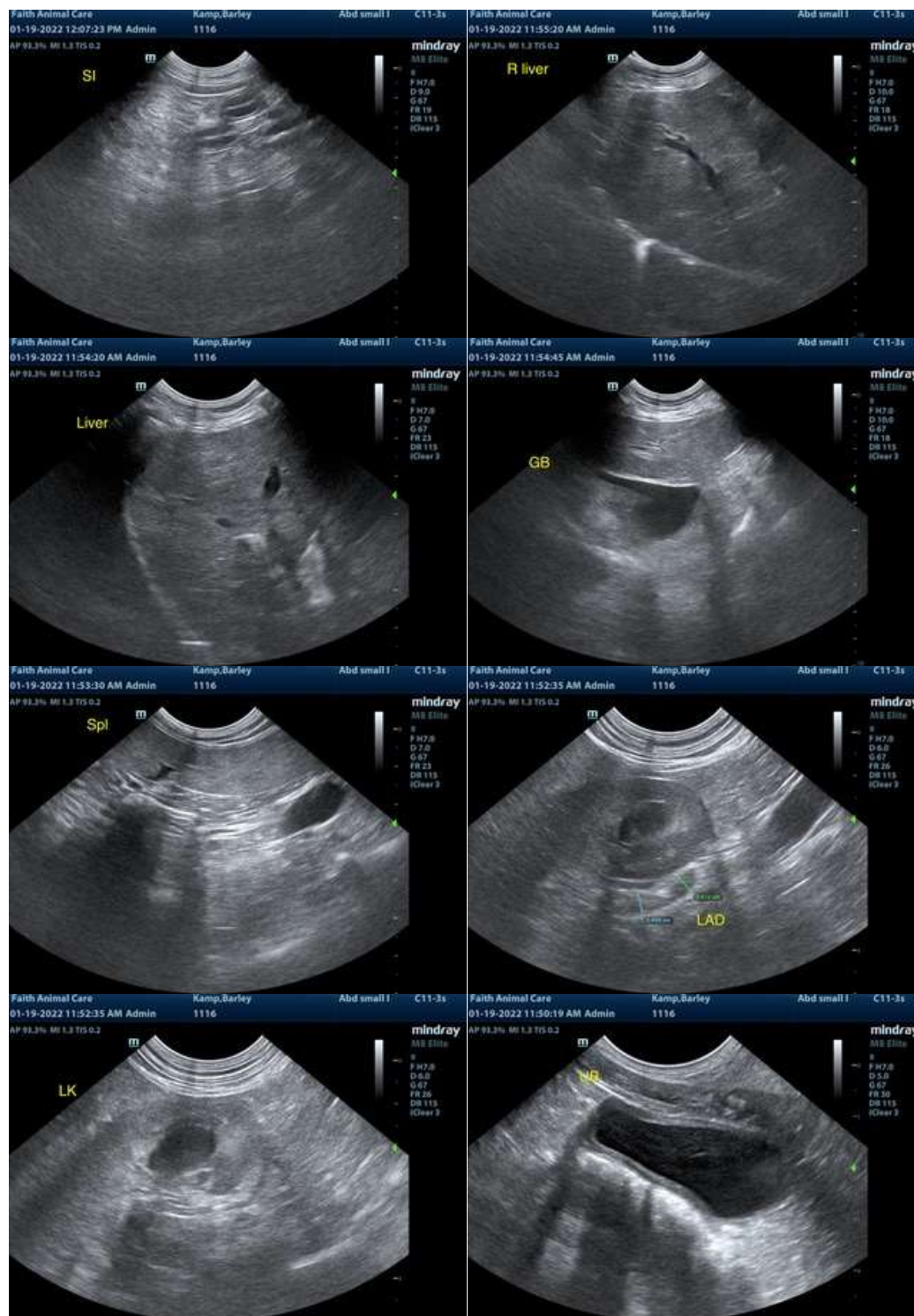
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



**PATIENT**

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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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**info@SonoPath.com**

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