



## PATIENT

Sherman Welch

## SPECIES

Canine

## BREED

Labrador Retriever

## SEX

Neutered male

## AGE

9 years

## WEIGHT

92 lbs

## PRESENTING CLINICAL SIGNS

History: -Patient is asymptomatic but has mildly persistent elevation of liver enzymes for last 2 months despite trial of Denamarin. -Reason for ultrasound is to investigate elevation of liver enzymes. Mild liver enzyme elevation: ALT: 142 U/L, AST: 61 U/L, ALP: 313U/L

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### *Urinary System*

The urinary bladder is full with a normal thickness and smooth appearance of the wall. Normal anechoic urine with no sediment or uroliths evident.

Normal appearance of the trigone area, proximal urethra, and iliac blood vessels.

Normal appearance and size of the iliac lymph nodes. Ureters not visualized, which can be considered a normal finding.

Normal renal size (left measured 8.1 cm, right measured 8.0 cm), architecture, echogenic appearance, cortico-medullary differentiation, which maintains a 1:3 cortex to medulla ratio, pelvis, and capsule. No infarcts, mineralization or renoliths evident. Normal color flow pattern is evident in both kidneys.

The prostate is small and hypoechogenic.

## INTERPRETED BY

Remo Lobetti, BVSc,  
MMedVet (Med),  
PhD, Dipl. ECVIM

## IMAGING PERFORMED BY

Quinn Robinson RVT

## HOSPITAL NAME

Hess Ridge AH

## REFERRING VET

Dr. Skarie

## INVOICE

70145

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1/14/26

### *Adrenal Glands*

The left adrenal gland is normal in shape, echogenic appearance, size, position, and appearance of the visible peri-adrenal vasculature. Left adrenal gland measured 1.45 cm in length x 0.56 cm and 0.43 cm in width. The right adrenal gland was not visualized.

### *Spleen*

Normal size and echogenic appearance. Smooth homogenous parenchyma and regular curvilinear capsule. Normal volume of the splenic vasculature without any overt congestion or thrombosis evident. No inflammatory, neoplastic, infarction, or infiltrative changes evident. The spleen measured 2.6 cm in width.

### *Liver*

Normal size, echogenic appearance, portal markings, and regular curvilinear capsule. No nodules or masses evident. Normal appearance of the hepatic and portal vasculature.

### *Gallbladder*

The gallbladder is full containing normal anechoic bile. Normal thickness and echogenic appearance of the wall. Normal size and appearance of the cystic and common bile duct.



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## *Gastrointestinal*

Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, 1:3 muscularis to mucosa ratio, normal wall thickness and peristaltic activity, and no distension of the lumen.

## *Pancreas*

The visible sections of the pancreas are of normal size and echogenic appearance with a regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

## *Free Abdomen*

Normal mesenteric lymph nodes.

No ascites evident.

## ULTRASONOGRAPHIC FINDINGS

- Normal ultrasound examination of the abdomen.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

On this ultrasound there is no obvious etiology for the mildly elevated liver enzyme activity.

Although the liver appears ultrasonographically normal, with the elevated liver enzyme activity an underlying hepatopathy such as reactive hyperplasia, vacuolar, metabolic and breed specific hepatopathy should still be considered.

Further assessment would be FNA cytology of the liver. However, a tru cut or wedge biopsy may be required for a final etiological diagnosis.

Specific therapy would be dependent on an etiological diagnosis.

Symptomatic management that can be considered would be to continue with the current therapy and to add Ursodiol with regular monitoring of liver enzyme activity.



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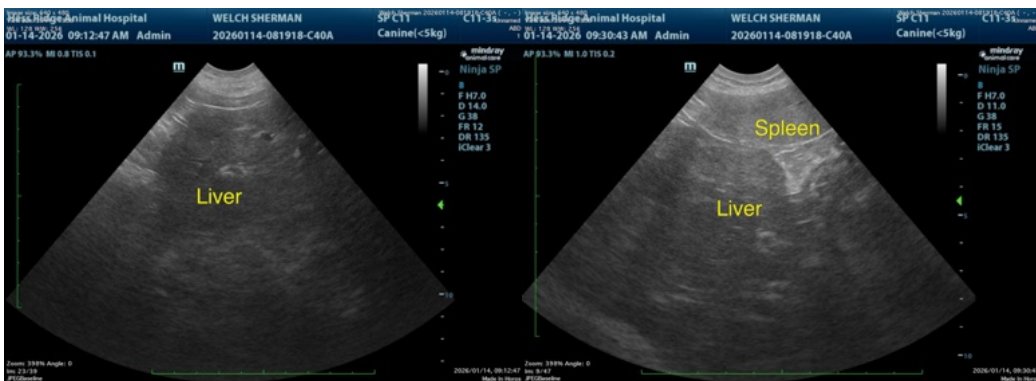
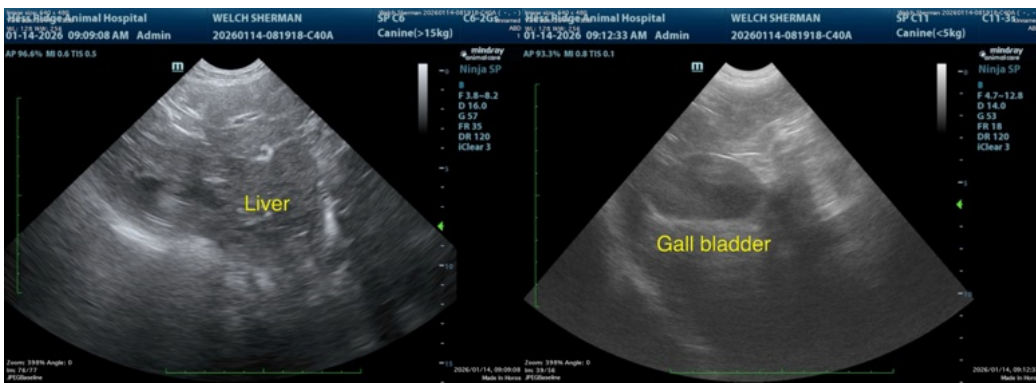
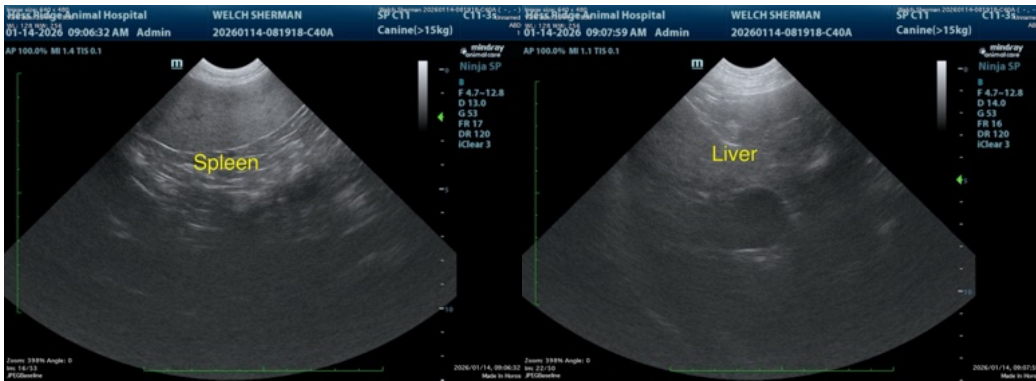
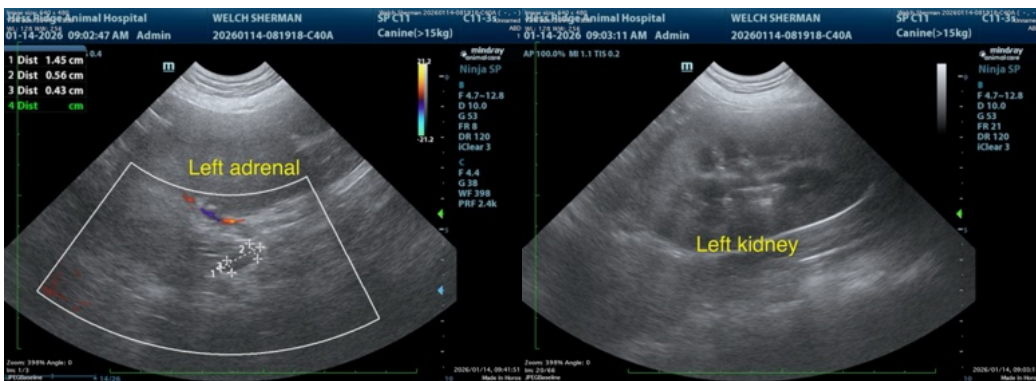
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM (Internal Medicine)

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