

PATIENT

Daisy Clark

SPECIES

Canine

BREED

Labrador Retriever

SEX

Spayed female

AGE

7 years

WEIGHT

80 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

A Waffle

HOSPITAL NAME

Torch Lake VC

REFERRING VET

Dr. Ackler

INVOICE

44097

DATE

5/1/23

PRESENTING CLINICAL SIGNS

History: Referred for high liver enzymes.
Abnormal PE/Chem/CBC/UA Results: MCV- 60.1 BUN- 6 ALT-1202 ALKP- 308 GGT- 21 TBIL- 7.7 AMYL- 415

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 7.13 cm. The right kidney measured 7.43 cm.

Adrenal Glands

The **adrenal glands** were not visualized, yet the region appeared unremarkable.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

Liver

The **liver** revealed increased portal markings. This is consistent with chronic inflammatory hepatopathy. The gallbladder wall was slightly thickened, yet non-obstructive. There was no evidence of post hepatic obstruction present.

Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine



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demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

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Pancreas

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The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

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Labrador Retriever

ULTRASONOGRAPHIC FINDINGS

SEX

Acute on chronic cholangiohepatitis.

Spayed female

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

Core liver biopsy is ideal in this patient. Leptospirosis titers are warranted. Other causes of acute on chronic insult should be considered. FNA may prove inflammatory cell type information and rule out neoplasia, yet not suspected. Ampicillin, Metronidazole and nutraceuticals are all indicated.

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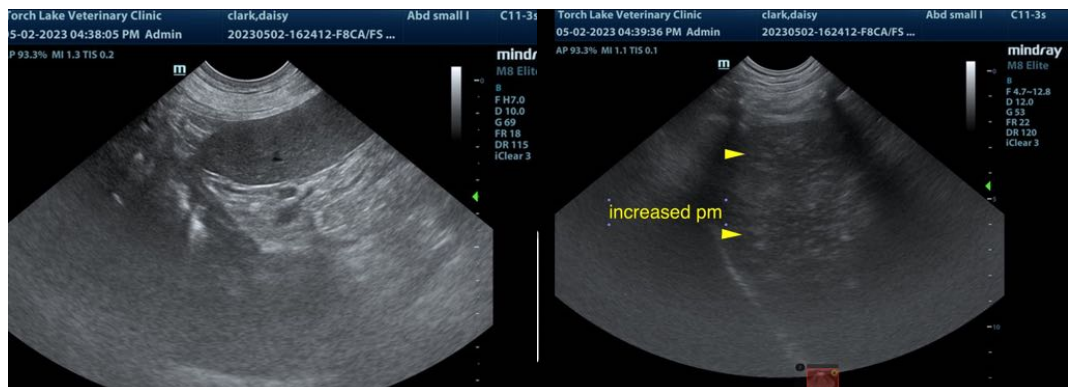
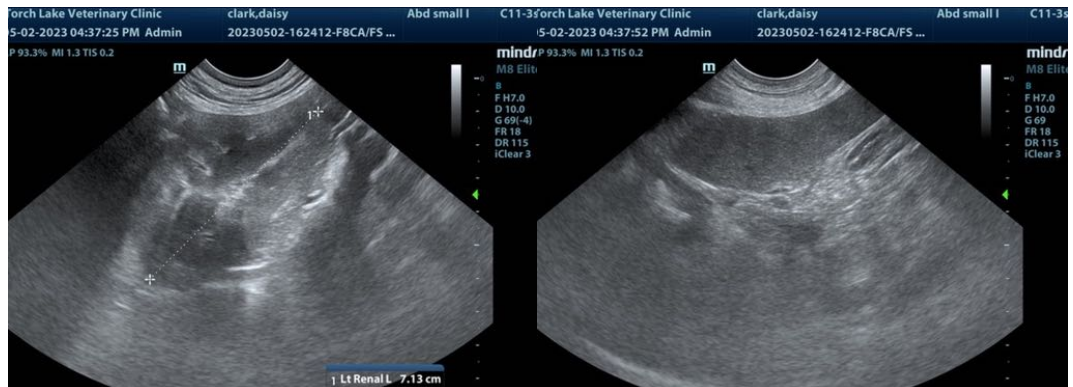
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
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