



**PATIENT PRESENTING CLINICAL SIGNS**

Ivy Hickey  
**SPECIES** History: Elevated liver values, pre sx ultrasound  
 Abnormal PE/Chem/CBC/UA Results: ALT (SGPT) 157 HIGH 12-118 IU/L GGT 40 HIGH 1-12 IU/L  
 PHOSPHORUS 2.2 LOW 2.5-6.0 mg/dL TRIGLYCERIDE 480 HIGH 29-291 mg/dL Neutrophils 78  
 HIGH 60-77 %

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED** *Urinary System*

Chiweenie  
 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**

Spayed Female  
 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 4.9 cm in length. The right kidney measured 5.3 cm in length.

**AGE**

4 Years

**Adrenal Glands**

**WEIGHT**

29 Pounds

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.54 cm width at the caudal pole and 0.42 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 0.72 cm width at the caudal pole and 0.5 cm width at the cranial pole.

**INTERPRETED BY**

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

**Spleen**

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

**IMAGING PERFORMED BY**

Dr. Mychajlonka

**Liver**

**HOSPITAL NAME**

Craig Road AH

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 were normal in appearance without signs of congestion.

**REFERRING VET**

Dr. Mychajlonka

The gallbladder was normal in size. The gallbladder walls were sonographically unremarkable without evidence of inflammatory criteria. Primarily anechoic content was present with mild nondependent nonorganized luminal debris. The cystic duct and common bile ducts were normal without evidence of dilation.

**INVOICE**

14743

**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.

**DATE**

4/15/22



**PATIENT**

Ivy Hickey

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.

**SPECIES**

**Pancreas**

Canine

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.

**BREED**

**Free Abdomen**

Chiweenie

No overt lymphadenopathy or peritoneal effusion was present.

**SEX**

**ULTRASONOGRAPHIC FINDINGS**

Spayed Female

- Low-grade hepatopathy
- Mild gallbladder debris

**AGE**

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

4 Years

Although nonspecific, the appearance of the liver was consistent with benign hepatopathy with primary considerations for low-grade inflammatory hepatopathy, given the ALT elevation with suspect mild cholestasis, given the presence of gallbladder debris and elevated GGT. No evidence of a portosystemic shunt, given the normal hepatic vascular volume and lack of renal or cystic calculi.

**WEIGHT**

29 Pounds

Assuming normal clotting status, ultrasound guided FNA of the liver could be considered for screening cytology, primarily to assess for or possible identify inflammatory cell type, if present.

**INTERPRETED BY**

Empirically, hepatosupportive medications, including Denamarin and Ursodiol could be considered and may prove beneficial. No anesthetic contraindications, assuming normal hepatic functionality, indicated by normal BUN, glucose, albumin and cholesterol levels.

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

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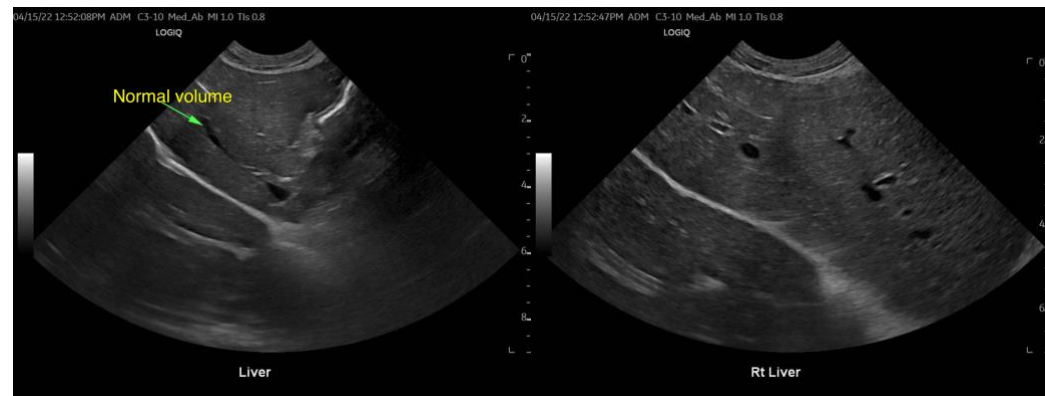
Dr. Mychajlonka

**HOSPITAL NAME**

Craig Road AH

**REFERRING VET**

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**PATIENT**

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**SPECIES**

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**BREED**

Chiweenie

**SEX**

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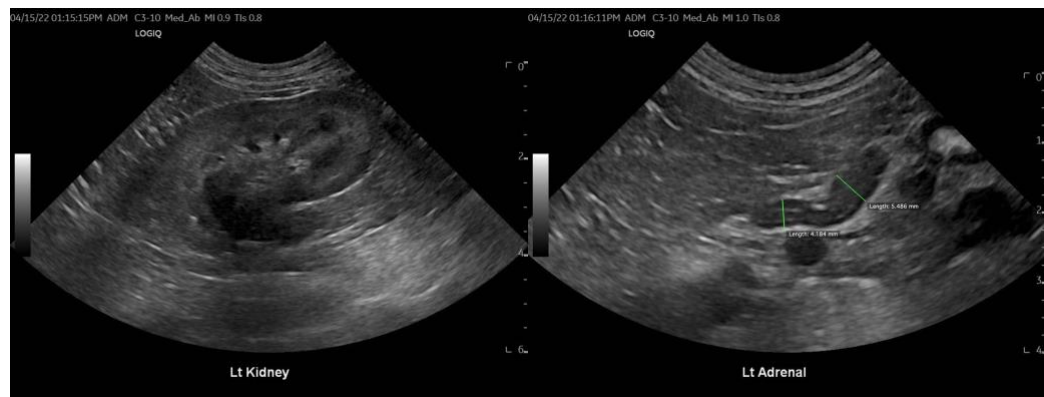
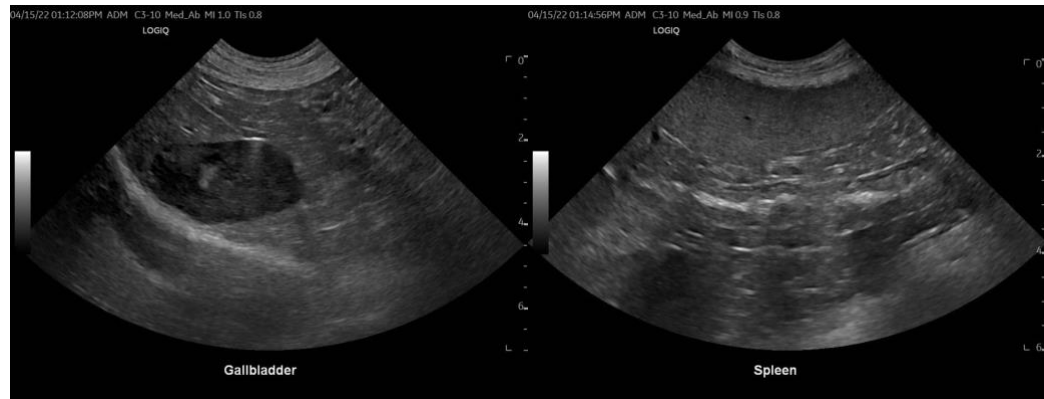
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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