



**PATIENT PRESENTING CLINICAL SIGNS**

Salem Waugaman

Elevated ALP detected on pre-op BW (CCVS 11/2021) prior to R FHO surgery. Repeated chemistry panel 8/22/2022, persistently elevated ALP (308). No pertinent clinical signs or physical exam findings.

**SPECIES**

Feline

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

DSH

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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**

FS

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. A solitary thinly walled cortical cyst was present in the right kidney measuring 0.33 cm in diameter. The left kidney measured 3.6 cm in length. The right kidney measured 3.7 cm in length.

**AGE**

4yr

The area of the aortic trifurcation was free of pathology.

**WEIGHT**

11.66lb

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.33 cm width. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.38 cm width.

**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**

Pamela Harrigan, RDMS

**Liver**

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. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild non-organized echogenic luminal debris. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

**HOSPITAL NAME**

Falmouth Animal Hospital

**REFERRING VET**

Dr. Sakmar

**Gastrointestinal**

**INVOICE**

12364ag

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**

12/05/2022



**PATIENT**

Salem Waugaman

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. The duodenum wall measured 0.23 cm width. The jejunum wall measured 0.21 cm width.

**SPECIES**

Feline

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

**Pancreas**

**BREED**

DSH

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.

**Free Abdomen**

**SEX**

FS

No omental masses or peritoneal effusion was present.

**AGE**

4yr

Focal, mildly prominent to enlarged colic lymph nodes were present. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). An example of a lymph node measured 1.4 cm x 0.49 cm. This finding is considered incidental and is not consistent with inflammatory or neoplastic criteria. This finding is considered incidental and is not consistent with inflammatory or neoplastic criteria.

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

11.66lb

- Hepatopathy-subjectively benign
- Mild gallbladder debris
- Small right kidney cortical cyst

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

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

Overall, the liver was non-specific yet consistent with benign hepatopathy. Considerations may include cholangiohepatitis given the presence of gallbladder debris, cholestasis without evidence of reported hyperbilirubinemia or unlikely lipidosis based sonographic presentation. Assuming normal clotting status and using a 25g needle, a hepatic FNA for screening cytology is warranted for further assessment to assess and identify inflammatory cells if present

**IMAGING PERFORMED BY**

Pamela Harrigan, RDCS

Hepatosupportive medications such as Denamarin or Vitamin E as well as Ursodiol due to its antioxidant and immunomodulatory effects within the liver would be warranted, although these medications may not result in decreased hepatic enzyme levels.

**HOSPITAL NAME**

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Hospital

No overt anesthetic contraindications.

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 DABVP (Canine and Feline)

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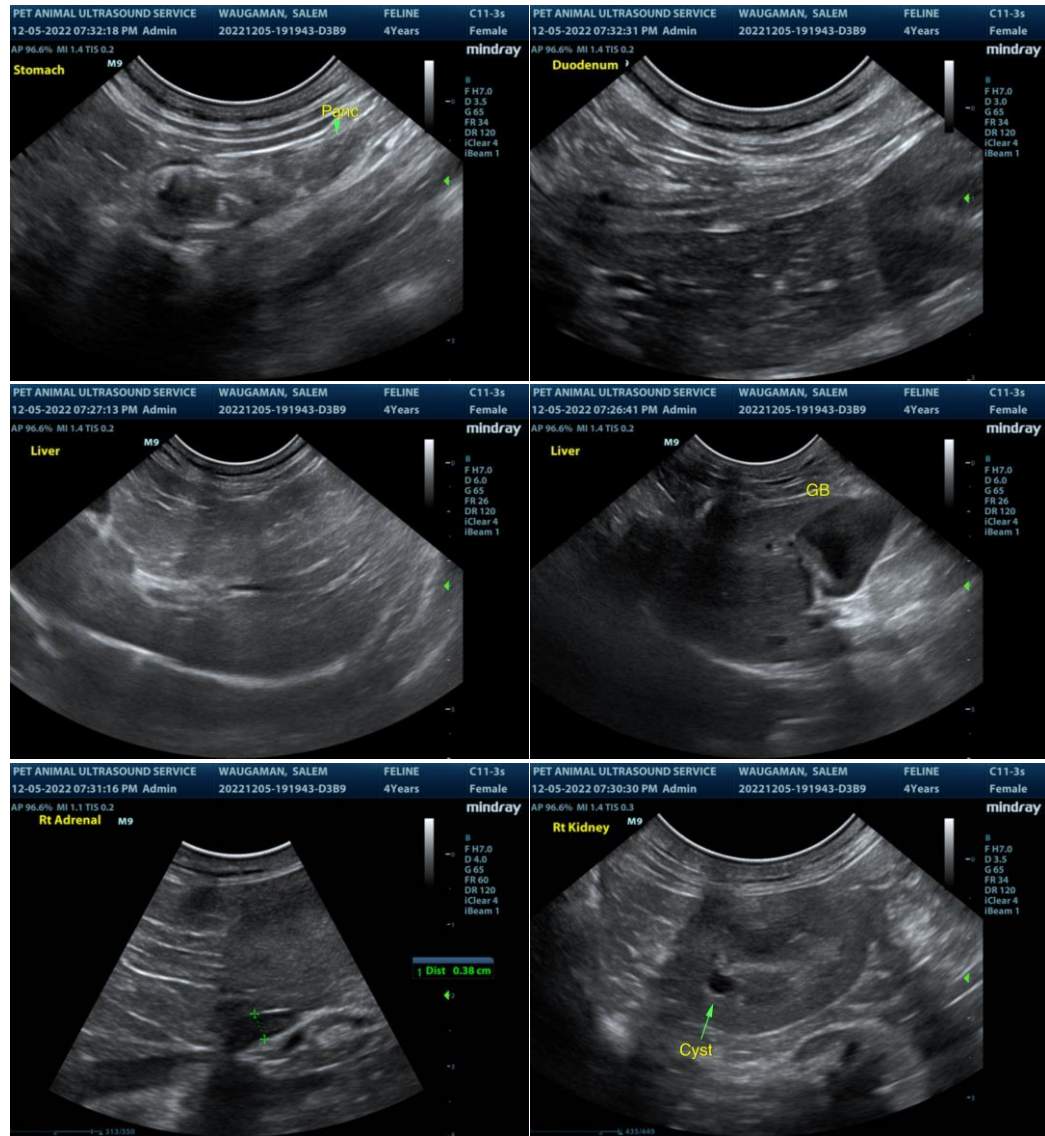
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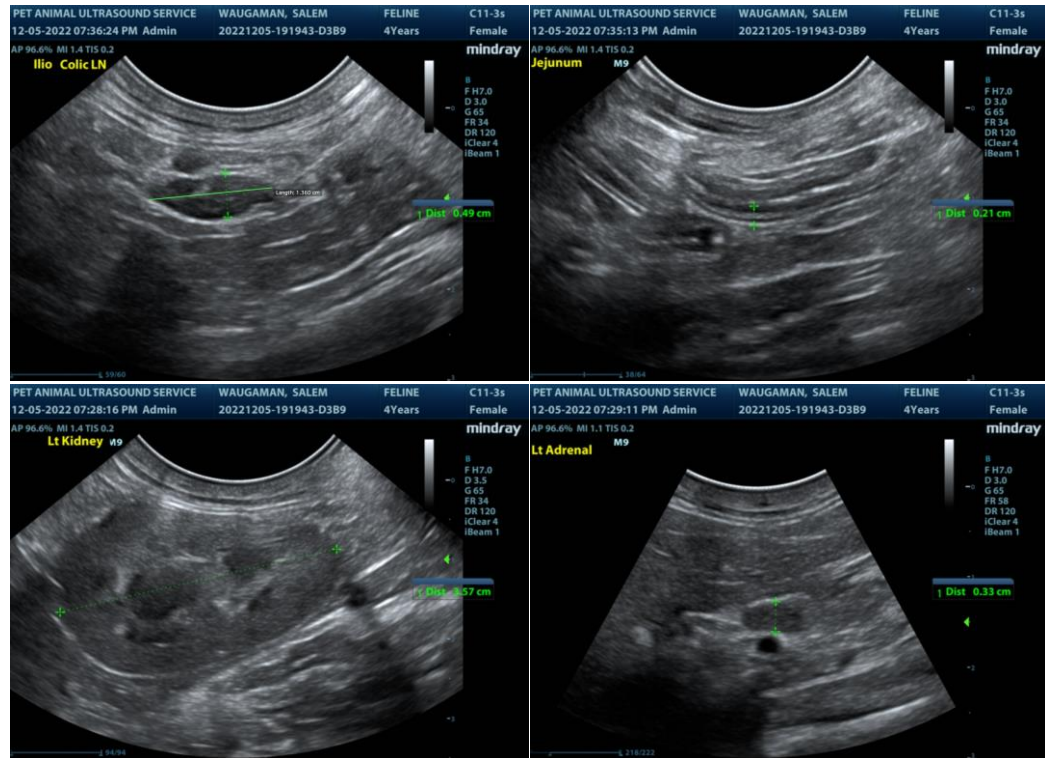
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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