



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Kitty Kimura  
**History:** Decreased appetite Current Medications Denamarin

**SPECIES** Abnormal PE/Chem/CBC/UA Results: Liver enzymes increased, calcium mildly elevated,

**Feline** **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED** *Urinary System*

**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 mild nondependent particulate 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 was 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. The right kidney exhibited mild asymmetrical lateral margination. No evidence of pelvic dilation was present. The left kidney measured 4.1 cm in length. The right kidney measured 4.6 cm in length.

**AGE**

10 years

**WEIGHT**

10.14 pounds

The area of the aortic trifurcation was free of pathology.

*Adrenal Glands*

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.36 cm width. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.54 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. The spleen measured 0.64 cm in width at the level of the hilus.

**IMAGING PERFORMED BY**

Jenna Walsh CVT

*Liver*

The liver was subjectively minor generalized enlargement with normal 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. The cystic and common bile ducts were normal.

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**REFERRING VET**

Dr. Kairis

*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. The jejunum wall measured 0.21 cm in width.



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

Kitty Kimura **Pancreas**

**SPECIES** 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.

Feline

**BREED** *Free Abdomen*

DSH

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

**SEX**

**ULTRASONOGRAPHIC FINDINGS**

Spayed female

- Hepatopathy-subjectively benign.
- Sonographically unremarkable GI tract.
- Mild age related kidneys.

**AGE**

10 years

**WEIGHT**

10.14 pounds

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

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DVM, DABVP  
(Canine and Feline)

Overall no overt evidence of significant abdominal visceral pathology with benign or age related changes present. The appearance of the liver is consistent with benign hepatopathy with considerations including metabolic, reactive or vacuolar hepatopathy, inflammatory hepatopathy such as cholangiohepatitis depending upon degree of hepatic enzyme elevations. No overt evidence of hepatic neoplastic criteria. Assuming normal clotting status and using a 25g needle, an ultrasound guided FNA of the liver could be considered for screening cytology primarily to assess for evidence of inflammatory cells and rule out occult neoplasia. Low grade inflammatory gastroenteropathy or pancreatitis could be present yet sonographically normal. A GI panel to include PLI/TLI/Cobalamin/Folate is recommended.

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Empirically continued GI and hepatic supportive care and further assessment of the hypercalcemia with ionized Ca levels would be reasonable. Three view chest radiographs suggested to rule out thoracic pathology.

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Kitty Kimura

**SPECIES**

Feline

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**SEX**

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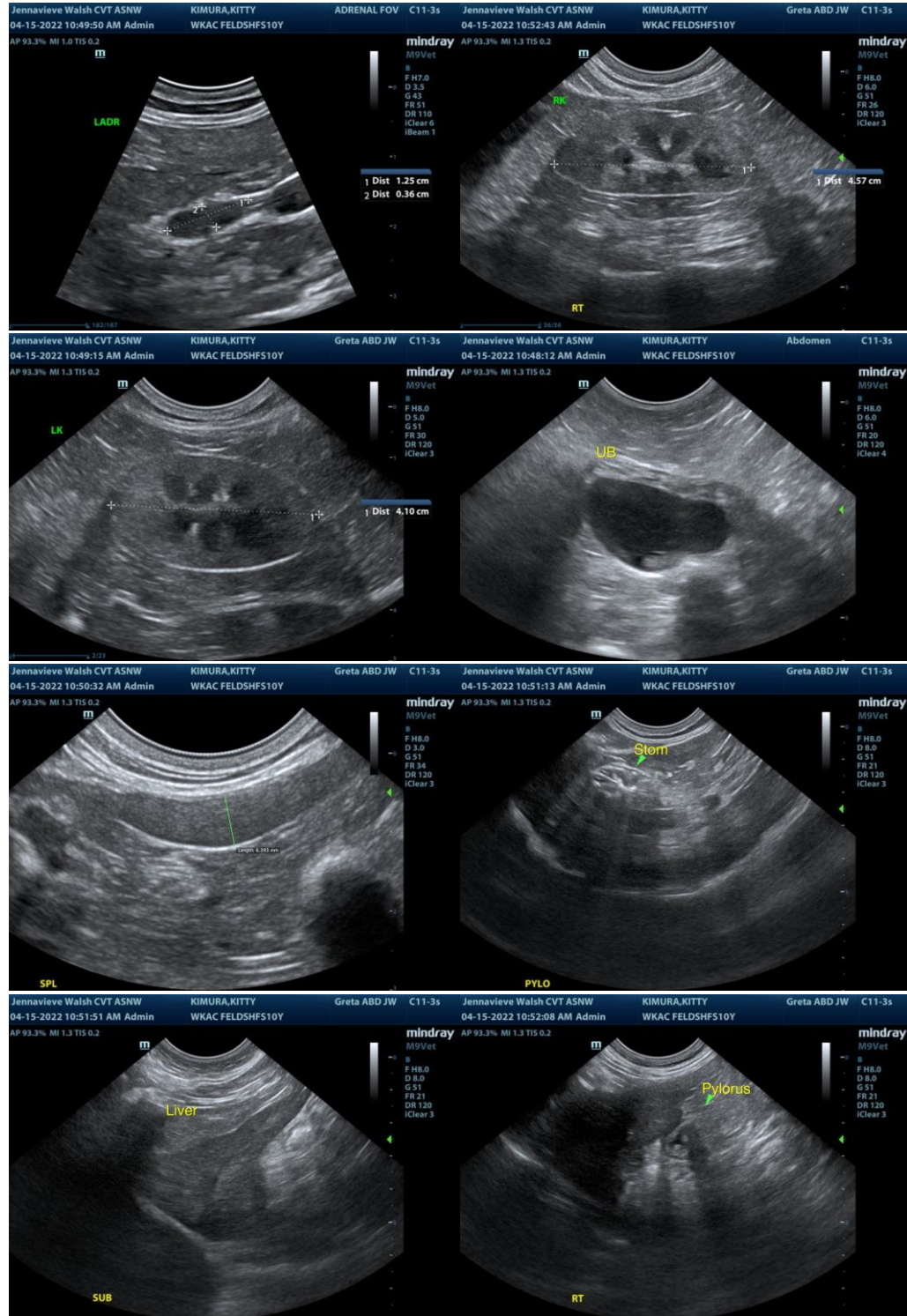
Dr. Kairis

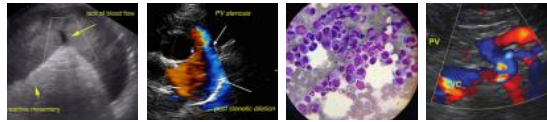
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**PATIENT**

Kitty Kimura

**SPECIES**

Feline

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DSH

**SEX**

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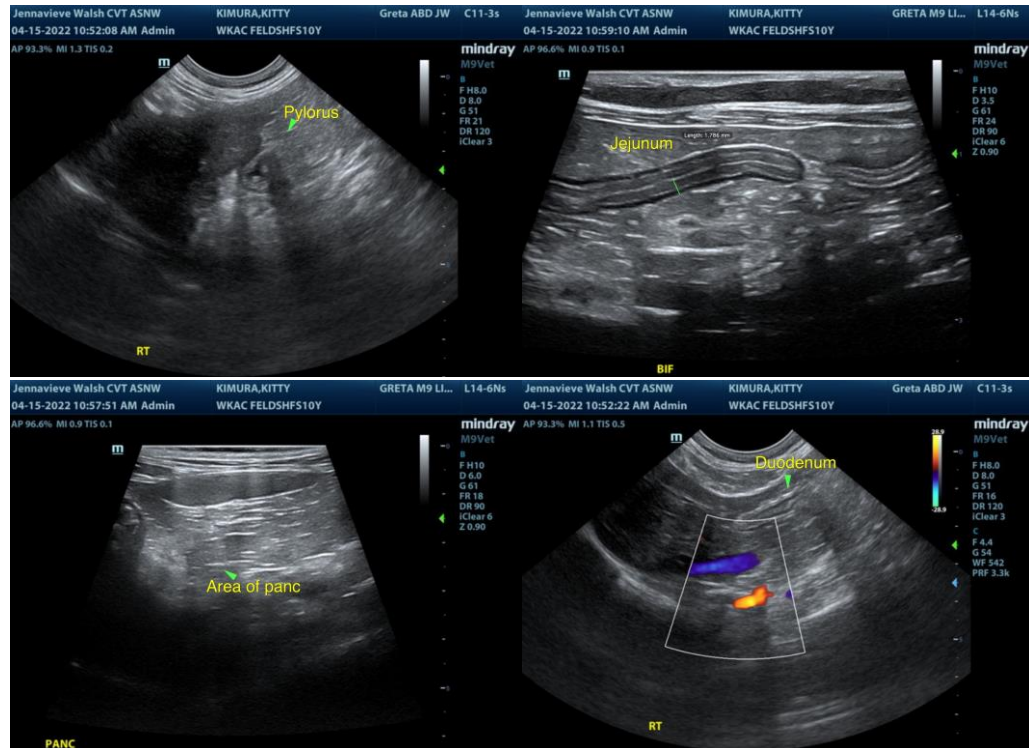
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@SonoPath.com