



PATIENT	PRESENTING CLINICAL SIGNS
Camye Stalling	Camye has elevated liver enzymes that have been trending upwards. Her stomach has been gurgling and she has a decreased appetite. A previous abdominal ultrasound did not show any obvious cause for the reported laboratory changes. A SonoPath report was done for that study on June 3, 2021.
SPECIES	Abnormal PE/Chem/CBC/UA Results: July 5, 2022: ALT=358 ALP=255
Canine	
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Standard Poodle	Urinary System
SEX	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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 was noted.
FS	
AGE	The area of the aortic trifurcation was free of pathology.
11 years 3 months	
WEIGHT	Normal size and margination were 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. No evidence of pelvic dilation was present. The left kidney measured 6.2 cm in length. The right kidney measured 6.8 cm in length.
18.6 kg	
INTERPRETED BY	Adrenal Glands
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 2.5 cm length x 0.60 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 2.7 cm length x 0.58 cm width at the caudal pole.
IMAGING PERFORMED BY	Spleen
Donna Markland, DVM	The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease.
HOSPITAL NAME	Liver/ Gallbladder
Island Mobile Paws Veterinary Services	The liver was normal to potentially mildly increased in size with normal structure and maintained symmetrical capsule contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion.
REFERRING VET	
Harbour City AH	
INVOICE	
14303	
DATE	
7/19/22	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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Gastrointestinal

The stomach exhibited mildly prominent wall layering exhibiting indistinct wall layer detail. The cranial gastric wall width measured 0.61 cm. The stomach was empty with mild luminal gas.

The visualized segments of small intestine exhibited intact wall layering and maintained a 1:3 muscularis/mucosa ratio. The small intestine was empty without evidence of metabolic / mechanical ileus. The duodenum wall measured 0.49 cm width. The jejunum wall width measured 0.32 cm.

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

Pancreas

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 were evident.

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Benign hepatopathy
- Mildly thickened stomach, sonographically unremarkable visualized small bowel

Secondary Findings

- Mild chronic renal changes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall appearance of the liver was nonspecific yet consistent with benign hepatopathy. Considerations may include nonspecific inflammatory hepatopathy given the primary ALT elevation with potential primary or concurrent vacuolar hepatic changes and/or hepatic cholestasis given the concurrent ALP elevation. No evidence of hepatic neoplastic criteria was present.

Assuming normal clotting status, ultrasound-guided FNA of the liver using a 25-gauge needle is warranted for screening cytology, primarily to assess for or possibly identify inflammatory cell type if present. Hepatosupportive medications including Denamarin +/- Ursodiol, due to its antioxidant and immunomodulatory effects in the liver, may prove beneficial. Hepatic biopsy for histopathology is likely required for a definitive diagnosis.

No overt evidence of splenic pathology or neoplastic criteria was noted.

Sonographically, the appearance of the stomach is suggestive of gastritis. Gastroprotectant protocol along with potential bland or hydrolyzed diet trial and assessment of clinical response could be considered. Early infiltrative gastric disease is considered a less likely differential diagnosis. Sonographic



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reassessment of the stomach is suggested if persistent / progressive decreased appetite and/or evidence of vomiting or weight loss.

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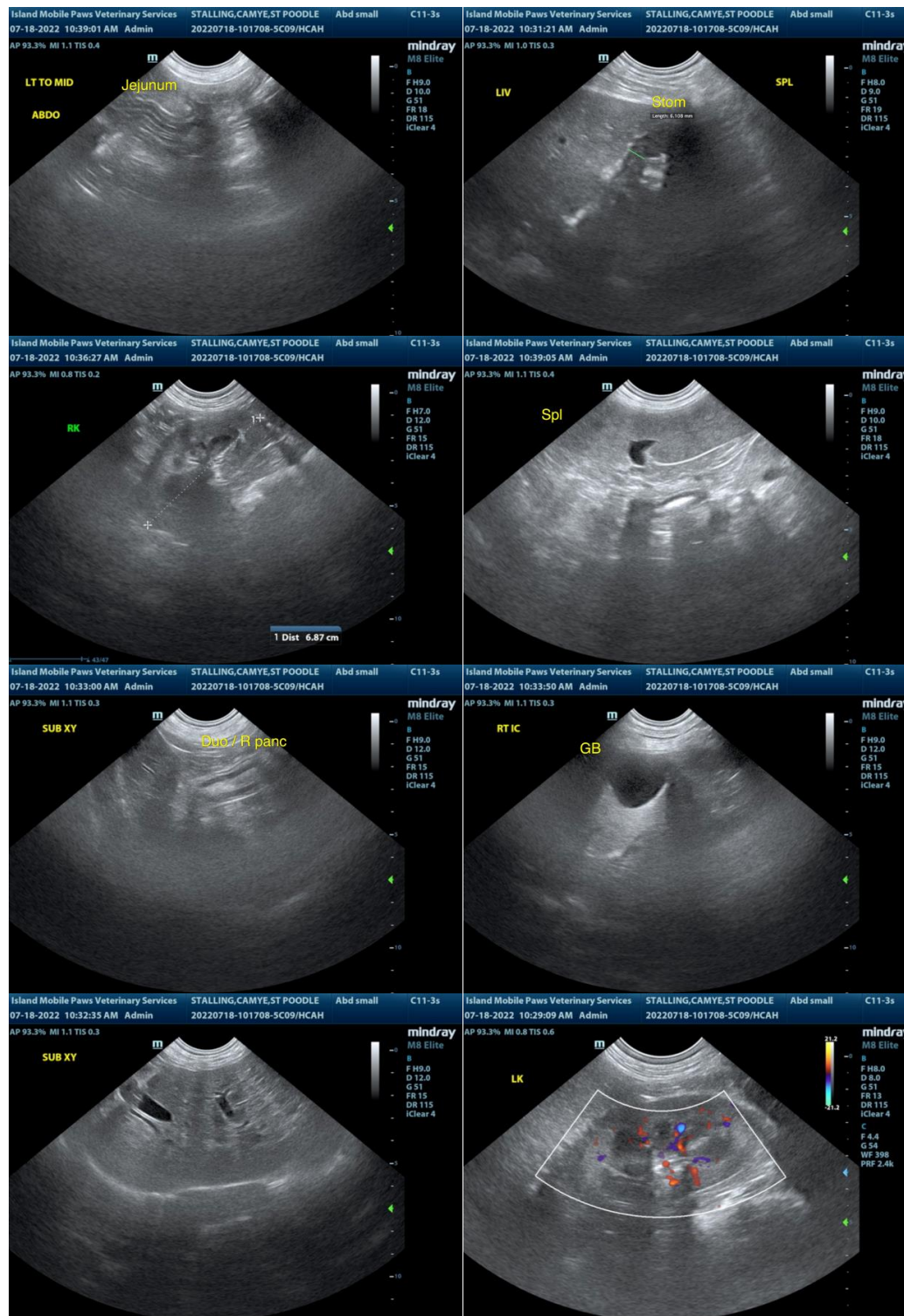
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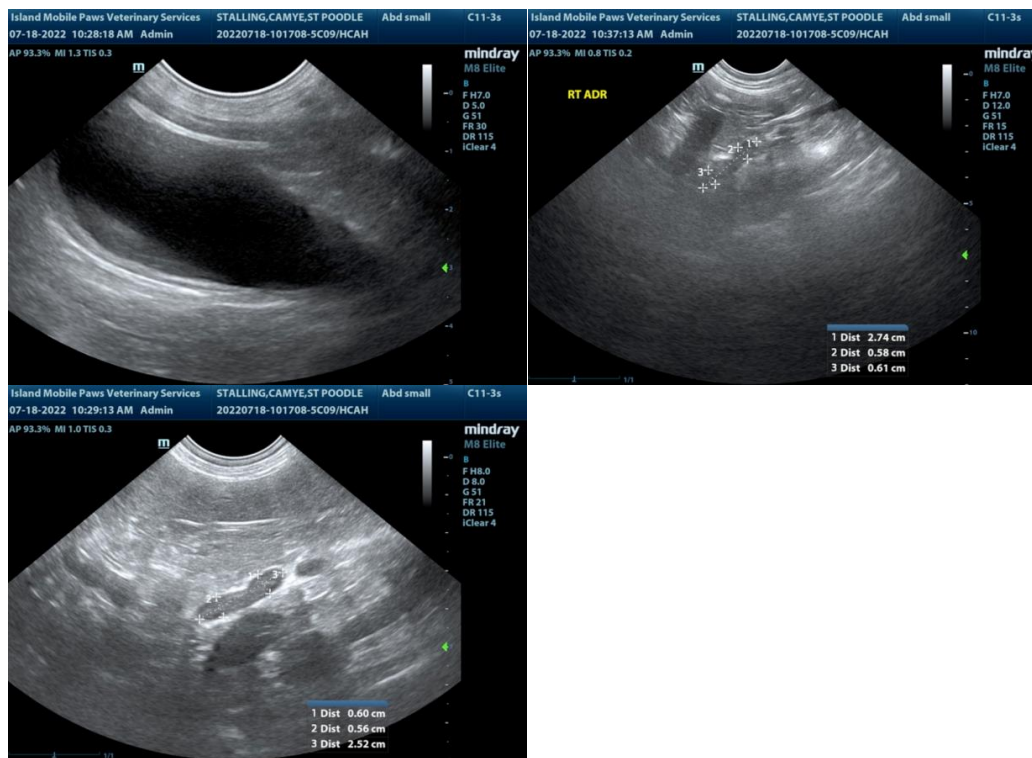
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com