



PATIENT	PRESENTING CLINICAL SIGNS
Bruce Pirisi Gardiner	March 2023 stage 3 dental disease. Has had previous elevated ALT so suggested recheck bloodwork. Elevated liver values, high spec CPL. Has been on Zentoniil.
SPECIES	Abnormal PE/Chem/CBC/UA Results: Chloride 107(108-119) ALT 206(18-121) ALP 1264(5-160) Spec CPL 838(0-200)
Canine	
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Pomeranian	Urinary System
SEX	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.
MN	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 to moderate loss of corticomedullary symmetry and definition expected for the age of the patient.
AGE	No evidence of pelvic dilation was present. Pinpoint hyperechoic cortical foci was present which may indicate areas of microinfarction, fibrosis or mineralization. Bilateral pinpoint medullary mineral was present. The left kidney measured 3.8 cm in length. The right kidney measured 4.0 cm in length.
14yr	
WEIGHT	The area of the aortic trifurcation was free of pathology.
5.17kg	Adrenal Glands
INTERPRETED BY	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.42 cm width at the caudal pole and 1.4 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.59 cm width at the caudal pole and 1.5 cm length.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Spleen
IMAGING PERFORMED BY	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.
Crystal Hill	
HOSPITAL NAME	Liver/Gallbladder
Hillview Vet Clinic	The liver presented moderately enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. No evidence of a vascular anomaly. The gallbladder was non-distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal.
REFERRING VET	
Stevenson	Gastrointestinal
INVOICE	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.
13217ag	
DATE	
03/17/2023	



PATIENT
Bruce Pirisi Gardiner

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 pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

BREED

Free Abdomen

Pomeranian

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

ULTRASONOGRAPHIC FINDINGS

SEX

MN

- Mild chronic renal changes with minor medullary mineral and possible cortical microinfarction.
- Non-specific subjective benign hepatopathy-vacuolar hepatopathy, inflammatory/immune mediated disease, hematopoiesis, hyperplasia, fibrosis or other hepatopathy possible. Neoplastic criteria considered less likely.

AGE

14yr

- Sonographically normal gallbladder.
- Heterogenous pancreas- patient/ age related variant, remodeling owing to previous inflammatory episode or mild to chronic pancreatitis possible.

WEIGHT

5.17kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Assuming normal clotting status and using a 25g needle, a hepatic FNA for screening cytology is warranted for further assessment. Hepatosupportive medications such as Denamarin and Ursodiol may prove beneficial.

INTERPRETED BY

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

The pancreas was non-specific and may indicate patient/ age related variant, remodeling owing to previous inflammatory episode or mild to chronic pancreatitis possible. This potential may be considered if there is evidence of cranial abdominal or subxiphoid discomfort on palpation. No evidence of intra-abdominal neoplastic criteria.

IMAGING PERFORMED BY

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SPECIES
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SEX
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AGE
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WEIGHT
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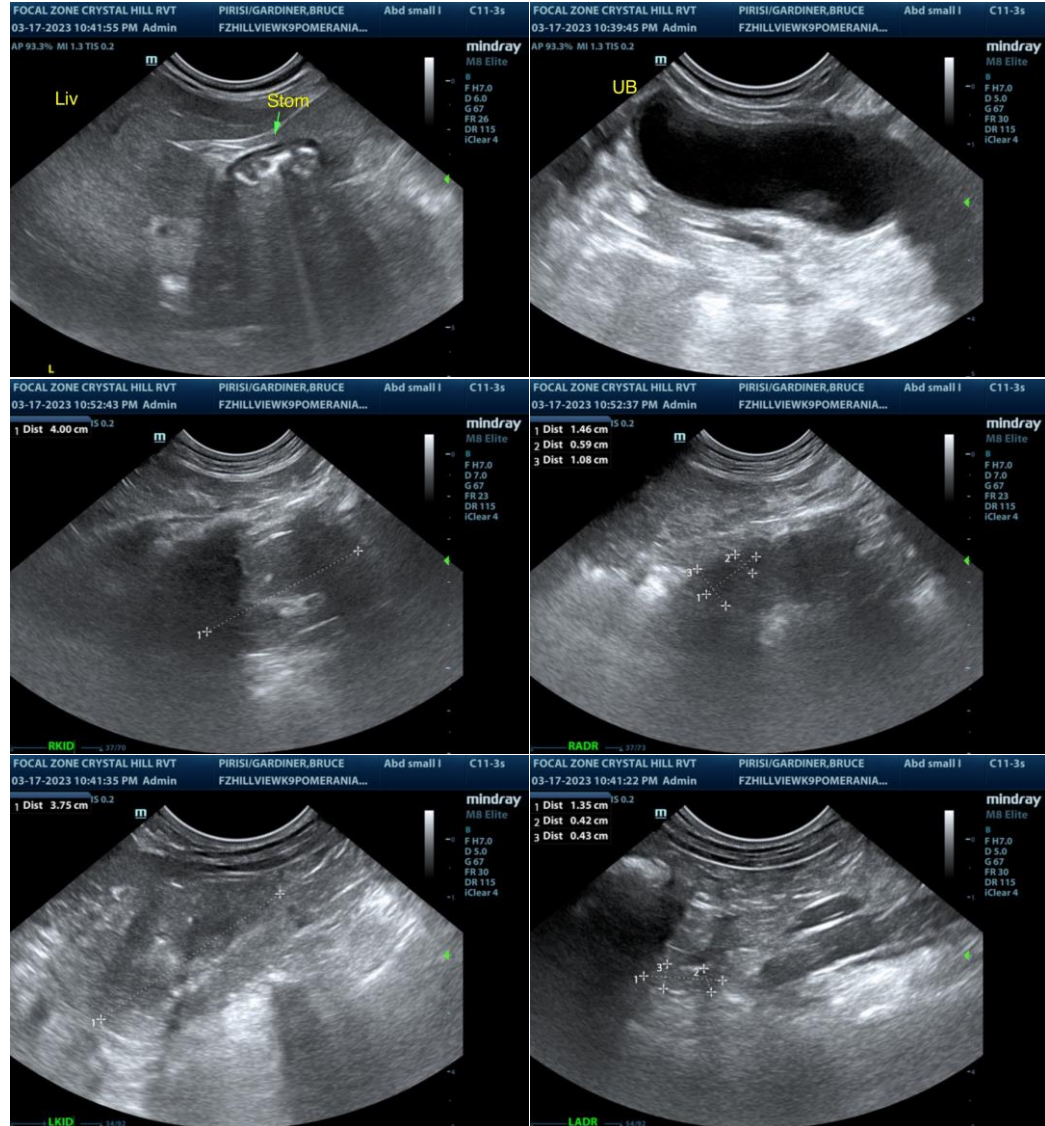
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**IMAGING
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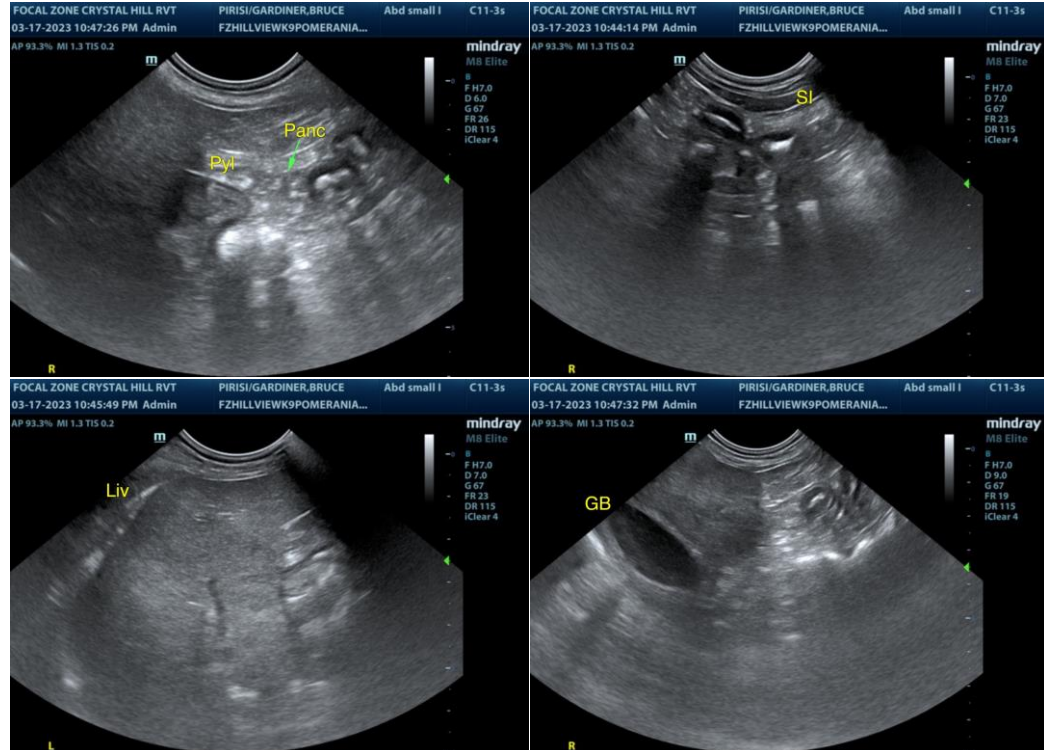
Stevenson

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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