



PATIENT

Zach Fornarotto

SPECIES

Canine

BREED

Chihuahua Mix

SEX

MN

AGE

11 years

WEIGHT

10.1 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Summit Dog and Cat
Hospital

REFERRING VET

D.r Vogler

INVOICE

13970

DATE

6/1/22

PRESENTING CLINICAL SIGNS

Increasing liver values. Current meds: Sam-e

Abnormal PE/Chem/CBC/UA Results: 6/1/2022-ALKP 335, ALT 175. 1/16/2022-ALKP 271, ALT 123, TRIG 652, PSL 215, monos 13%, neut 57%

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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.

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 0.78 cm in diameter.

The area of the aortic trifurcation was free of pathology.

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 3.8 cm in length. The right kidney measured 3.6 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.40 cm width at the caudal pole and 0.36 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 0.37 cm width at the caudal pole and 0.34 cm width at the cranial pole. No evidence of hyperplasia or tumors.

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.

Liver/ Gallbladder

The liver presented mildly 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. A solitary subtle hyperechoic intraparenchymal nodule measuring 0.66 cm in diameter was present in the mid liver. 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. The gallbladder was non-distended in size with moderate, nondependent yet nonorganized



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and nonmineralized gallbladder debris. The gallbladder was otherwise normal with no evidence of gallbladder or peripheral gallbladder inflammatory criteria.

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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.

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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.

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

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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.

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Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

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ULTRASONOGRAPHIC FINDINGS

- Age-related kidneys
- Hepatopathy with solitary subtle nondisruptive intraparenchymal nodule - benign
- Moderate nonorganized gallbladder debris (non-mucocele)
- Sonographically unremarkable pancreas

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall liver was nonspecific yet consistent with benign hepatopathy. Vacuolar hepatopathy, inflammatory / immune-mediated disease, focal area of nodular hyperplasia, lipogranuloma, or other hepatopathy is possible without evidence of neoplastic criteria. Further assessment may include hepatic FNA for screening cytology primarily to assess for evidence of inflammatory cells.

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No sonographic evidence of pancreatic inflammation, yet low-grade inflammation could be present and sonographically normal. Correlation with clinical history is suggested. Hepatosupportive medications such as Denamarin and Ursodiol are recommended with continued monitoring of hepatic enzymes for evidence of progressive elevation.

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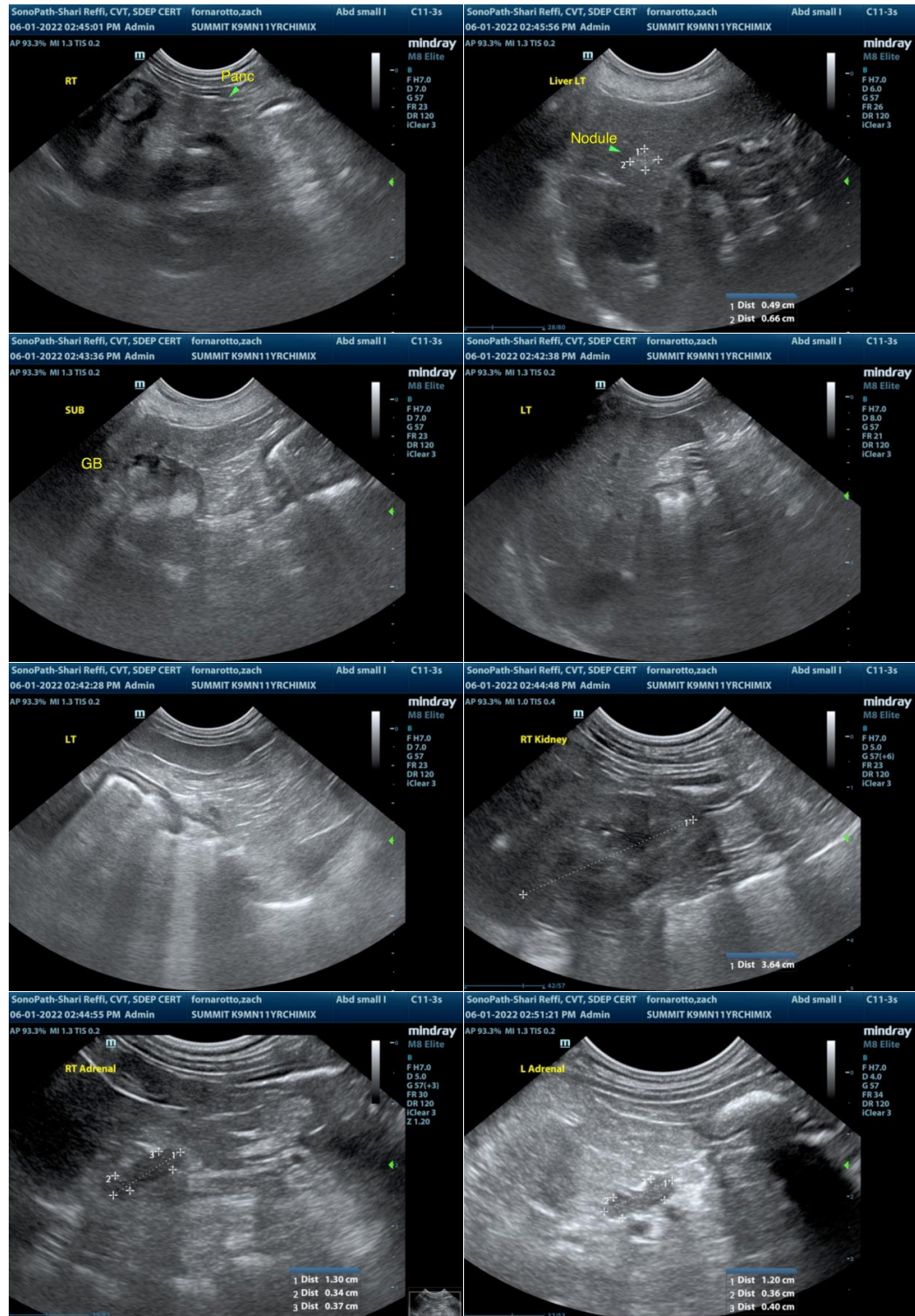
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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