



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Martin Cozzo
History: Elevated ALP (increasing) for 6 months, Abd u/s by other vet- mildly enlarged liver w/ coarse echo texture throughout. Current meds: Denamarin

SPECIES Abnormal PE/Chem/CBC/UA Results: ALP 1172, Alb 4.5, ALT 40, AST 18, Tbili 0.4, PLT 374k, HCT 56%

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Mix The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 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

MN

AGE

6 years

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. The left kidney measured 5.2 cm in length. The right kidney measured 5.9 cm in length.

The area of the aortic trifurcation was free of pathology.

WEIGHT

32.9 pounds

No overt pathology in the area of the residual prostate.

Adrenal Glands

INTERPRETED BY

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 0.69 cm width at the caudal pole and 2.2 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.67 cm width at the caudal pole and 2.3 cm length.

Spleen

IMAGING PERFORMED BY
Jessica Miller

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.

HOSPITAL NAME

American Animal
Hospital

Liver

REFERRING VET

Dr. Pascucci

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. 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 primarily anechoic luminal content and mild nonmineralized luminal debris. The cystic and common bile ducts were normal.

INVOICE

10497ag

Gastrointestinal

DATE

05/02/2022

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.

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

SPECIES

Canine

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 was evident.

BREED

Mix

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

SEX

MN

ULTRASONOGRAPHIC FINDINGS

AGE

6 years

- Vacuolar hepatopathy pattern-subjectively benign
- Minor gallbladder debris

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

32.9 pounds

The overall appearance of the liver although nonspecific is consistent with benign hepatopathy and most suggestive of vacuolar hepatopathy given the ALP elevation. Potential for mild nonobstructive cholestasis is suspected with inflammatory hepatopathy or hepatobiliary process such as cholangiohepatitis considered a less likely differential diagnosis. An ultrasound guided FNA of the liver assuming normal clotting status for screening cytology could be considered. The addition of Ursodiol to Denamarin may prove beneficial given its antioxidant and immunomodulatory effects within the liver. Adrenal hyperfunctionality is considered less likely given the lack of reported clinical signs and overall normal appearance of the bilateral adrenal glands. Adrenal testing could be considered if clinically indicated. Continued serial monitoring of hepatic enzymes +/- recheck sonogram or liver biopsy may be considered if persistent/progressive hepatic enzyme elevations are noted.

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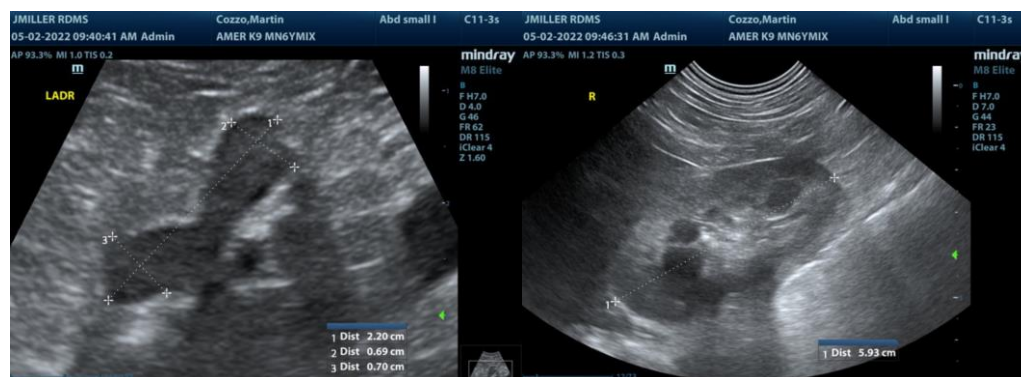
Jessica Miller

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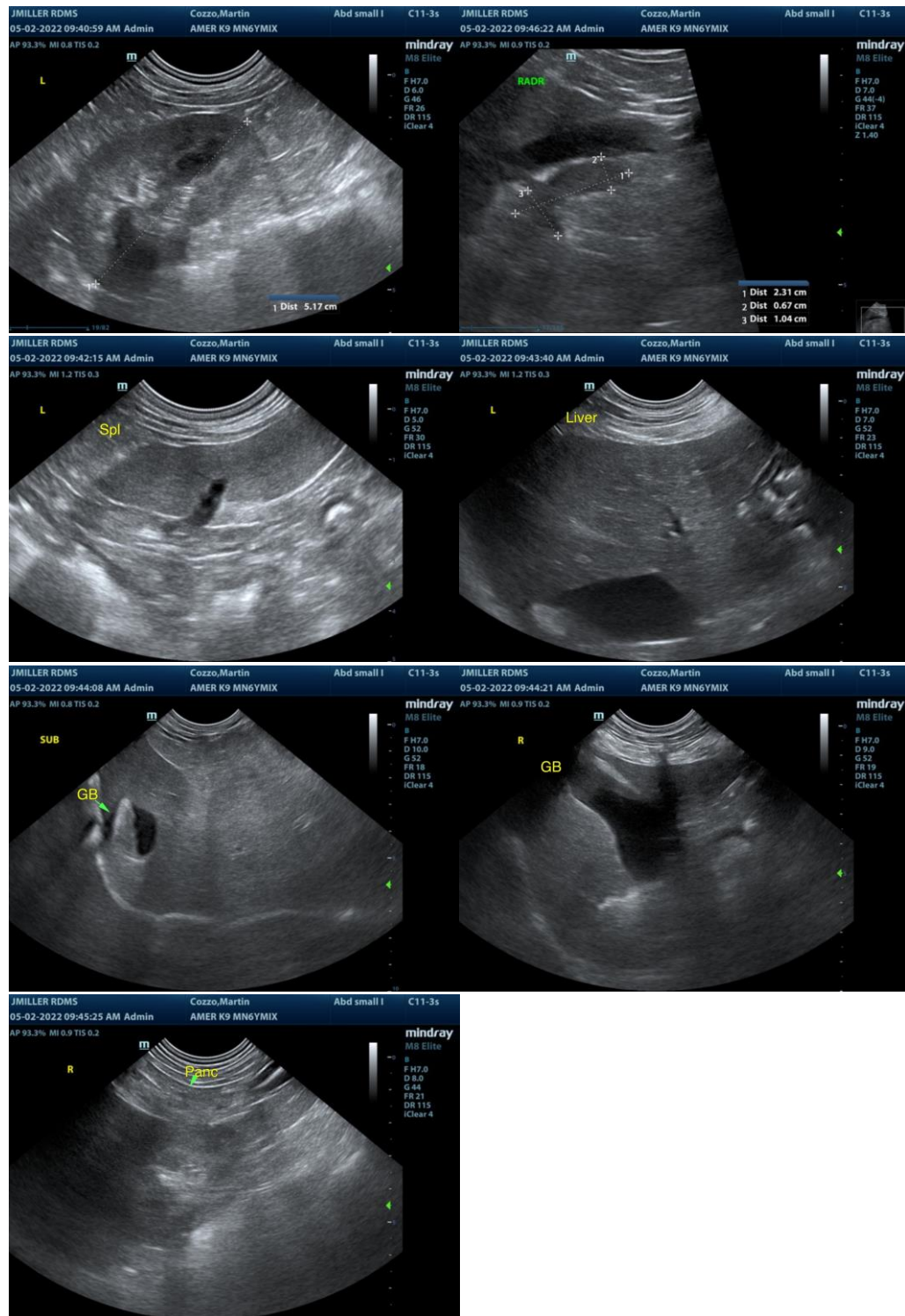
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



PATIENT

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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)

SPECIES

info@SonoPath.com

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Mix

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