



PATIENT

Mikko Block

PRESENTING CLINICAL SIGNS

Elevated ALP - 1694, no clinical signs.

Abnormal PE/Chem/CBC/UA Results: ALP 1694.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shih Tzu

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 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

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. No evidence of pelvic dilation was present. The left kidney measured 4.0 cm in length. The right kidney measured 3.6 cm in length

AGE

13yr

The area of the aortic trifurcation was free of pathology.

WEIGHT

12.8lb

The area of the residual prostate appeared normal and free of pathology measuring 0.73 cm in diameter.

Adrenal Glands

The bilateral adrenal glands were borderline mildly prominent size based on caudal pole measurement and body weight. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 2.0 cm length and 0.71 cm width in the caudal pole. The right adrenal gland measured 1.7 cm length and 0.65 cm width in the caudal pole.

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.

IMAGING PERFORMED BY

Kelly Vazquez

Liver

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.

HOSPITAL NAME

Animal General on
Hudson

REFERRING VET

Dr. Ng

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The gallbladder was non-distended in size with primarily anechoic luminal content and mild variably echogenic non-organized debris. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

Gastrointestinal

DATE

11/24/2022

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.

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Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum, likely consistent with age related changes and considered incidental. No signs of active inflammation or neoplasia.

BREED

Shih Tzu

Free Abdomen

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

SEX

MN

ULTRASONOGRAPHIC FINDINGS

- Benign hepatopathy with parenchymal remodeling-sonographically suggestive of vacuolar hepatopathy and non-obstructive cholestasis, potential for hematopoiesis, hyperplasia or mild inflammatory hepatopathy possible
- Mild gallbladder debris (non-mucocele)
- Bilateral mildly prominent adrenal glands-no adrenal tumors
- Mild chronic renal changes
- Mild pancreatic parenchymal remodeling

AGE

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WEIGHT

12.8lb

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Assuming normal clotting status and using a 25g needle, a liver FNA for screening cytology is warranted for further assessment primarily to assess for inflammatory cells or hepatic antigenic stimulation. Hepatosupportive medications such as Denamarin or Vitamin E as well as a hydrolyzed diet trial could be considered.

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(Canine and Feline)

Primary adrenal disease is considered unlikely given the lack of reported clinical signs i.e. PU/PD, polyphagia etc.

IMAGING PERFORMED BY

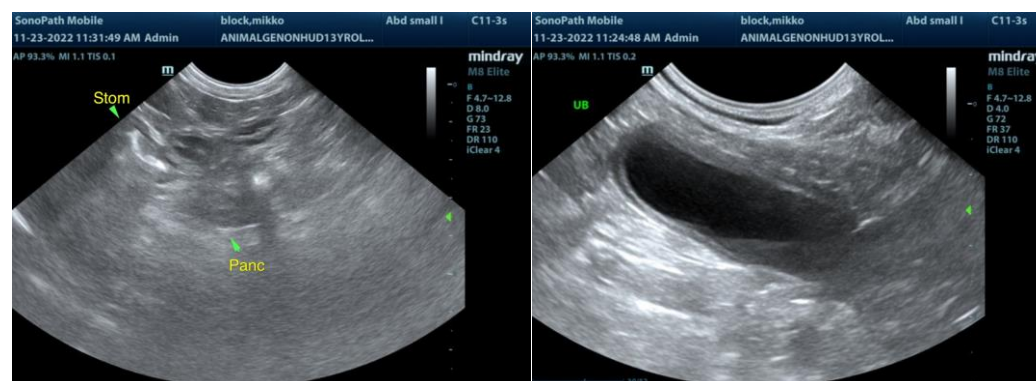
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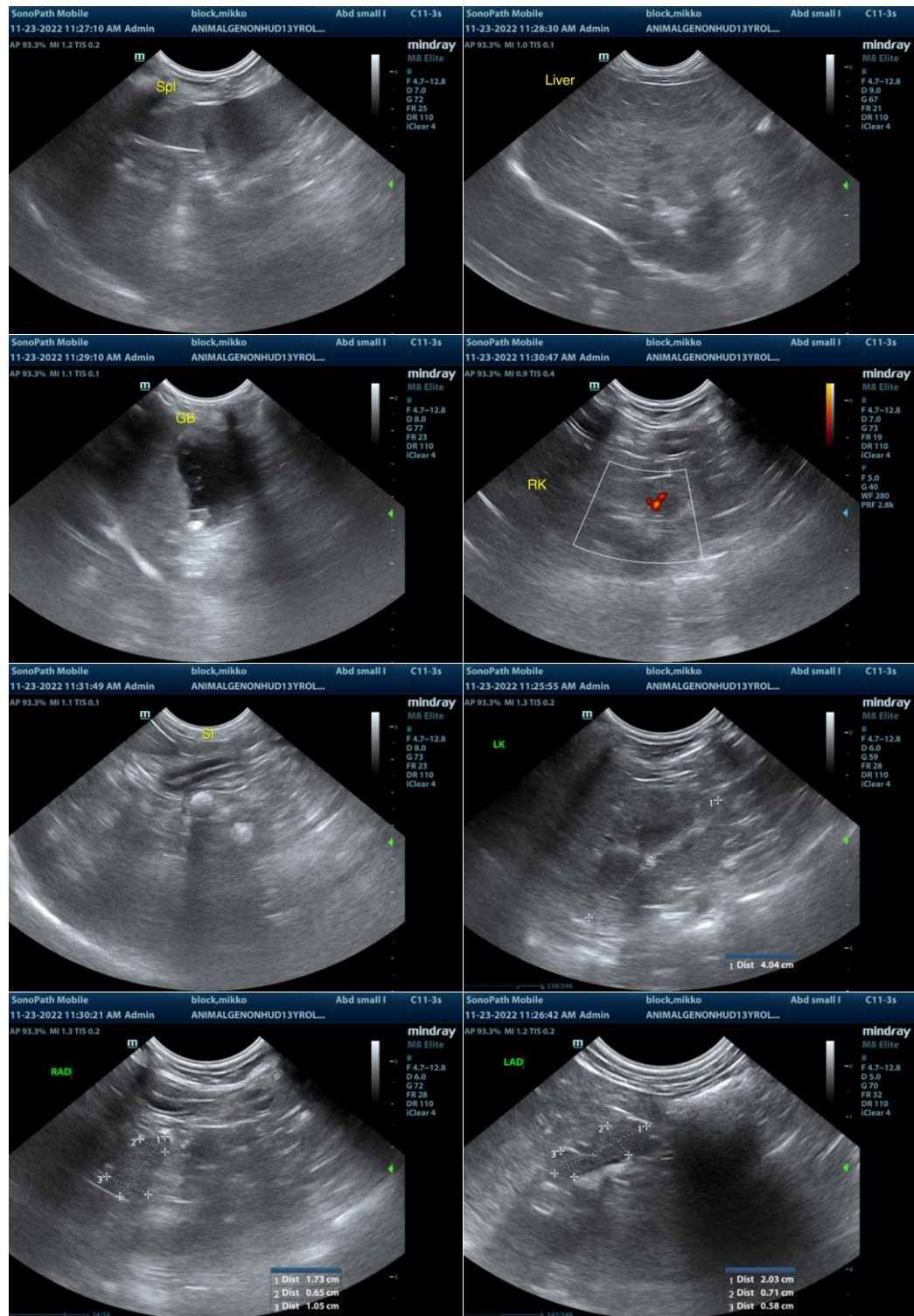
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



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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.

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mac.daniel@sonopath.com

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