



PATIENT PRESENTING CLINICAL SIGNS

Hank Niedziela History: Elevated liver values noted at routing senior wellness visit. Osteoarthritis. On Galliprant 20 mg, 1/2 SID. ALP 394; calcium 11.5

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED Pekingese
 The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of – 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 Neutered male
 Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some mildly increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. Non obstructive areas of medullary mineral primarily in the lateral diverticuli was observed in both kidneys. Minor left kidney pyelectasia was present. The left kidney measured 4.0 cm in length. The right kidney measured 3.8 cm in length.

AGE 19 years
 The area of the aortic trifurcation was free of pathology, no evidence of medical, iliac or sublumbar lymphadenopathy.

WEIGHT 14.3 pounds
 The area of the residual prostate was free of pathology measuring 0.7 cm in diameter.

INTERPRETED BY

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

Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.48 cm width in the cranial pole and 0.56 cm width in the caudal pole. The right adrenal gland measured 0.58 cm width in the cranial pole and 0.61 cm width in the caudal pole.

Spleen

IMAGING PERFORMED BY Pamela Harrigan, RDCS
 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

VCA Palmer Animal Hospital

Liver

The liver was mildly enlarged in size with subjectively normal structure and 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

Dr. Haroules DVM

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild nondependent mobile luminal debris. No evidence of peripheral gallbladder inflammation was noted. The cystic and common bile ducts were normal.

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Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained echogenic, nonshadowing ingesta/chyme without signs of obstruction or foreign material. The ventral gastric body wall measured 0.30 cm in width.

DATE

04/11/2022



PATIENT

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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. The duodenal wall measured 0.37 cm in width. The jejunum wall measured 0.29 cm in width.

SPECIES

Canine

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

Pancreas

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

Pekingese

Free Abdomen

No overt lymphadenopathy or peritoneal effusion present.

SEX

Neutered male

ULTRASONOGRAPHIC FINDINGS

- Benign hepatopathy.
- Mild GB debris (non-mucocele)
- Mild chronic renal changes with non-obstructive medullary mineral and minor left kidney pyelectasia.

AGE

19 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The left kidney pyelectasia may be owing to chronic renal changes, potential pelvic scarring possibly owing to previous calculi passage, IV fluid therapy (if applicable). Urine C/S and protein: creatinine ratio on sterile urine sample is recommended.

WEIGHT

14.3 pounds

Overall, the liver was nonspecific yet consistent with benign hepatopathy and suspected hepatic vacuolar changes with potential for non-clinical cholestasis given the ALP elevation and presence of mild GB debris. Inflammatory hepatopathy such as cholangiohepatitis is possible without evidence of neoplastic criteria. An ultrasound guided FNA of the liver using a 25g needle and assuming normal clotting status could be considered for further assessment. The bilateral adrenal glands are not overtly consistent with hyperplasia and without reported clinical signs of adrenal hyperfunction is considered a less likely differential diagnosis. Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial.

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 DABVP (Canine and Feline)

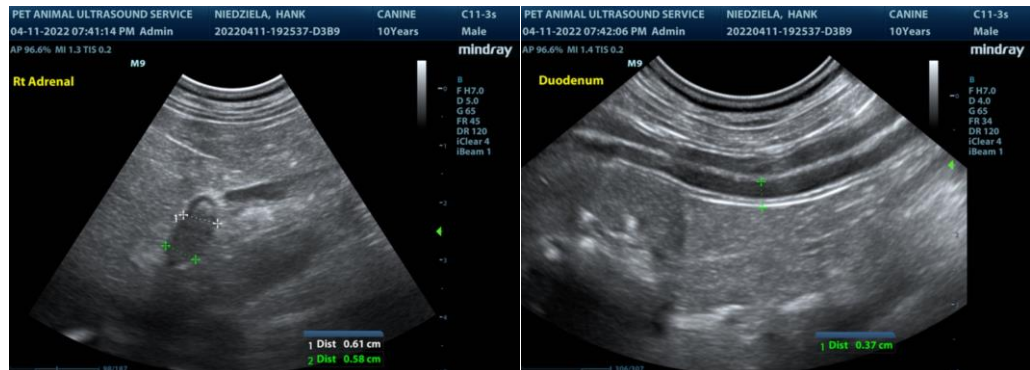
IMAGING PERFORMED BY

Pamela Harrigan, RDCS

If progressive hypercalcemia is present, rectal palpation and three view chest radiographs may be considered.

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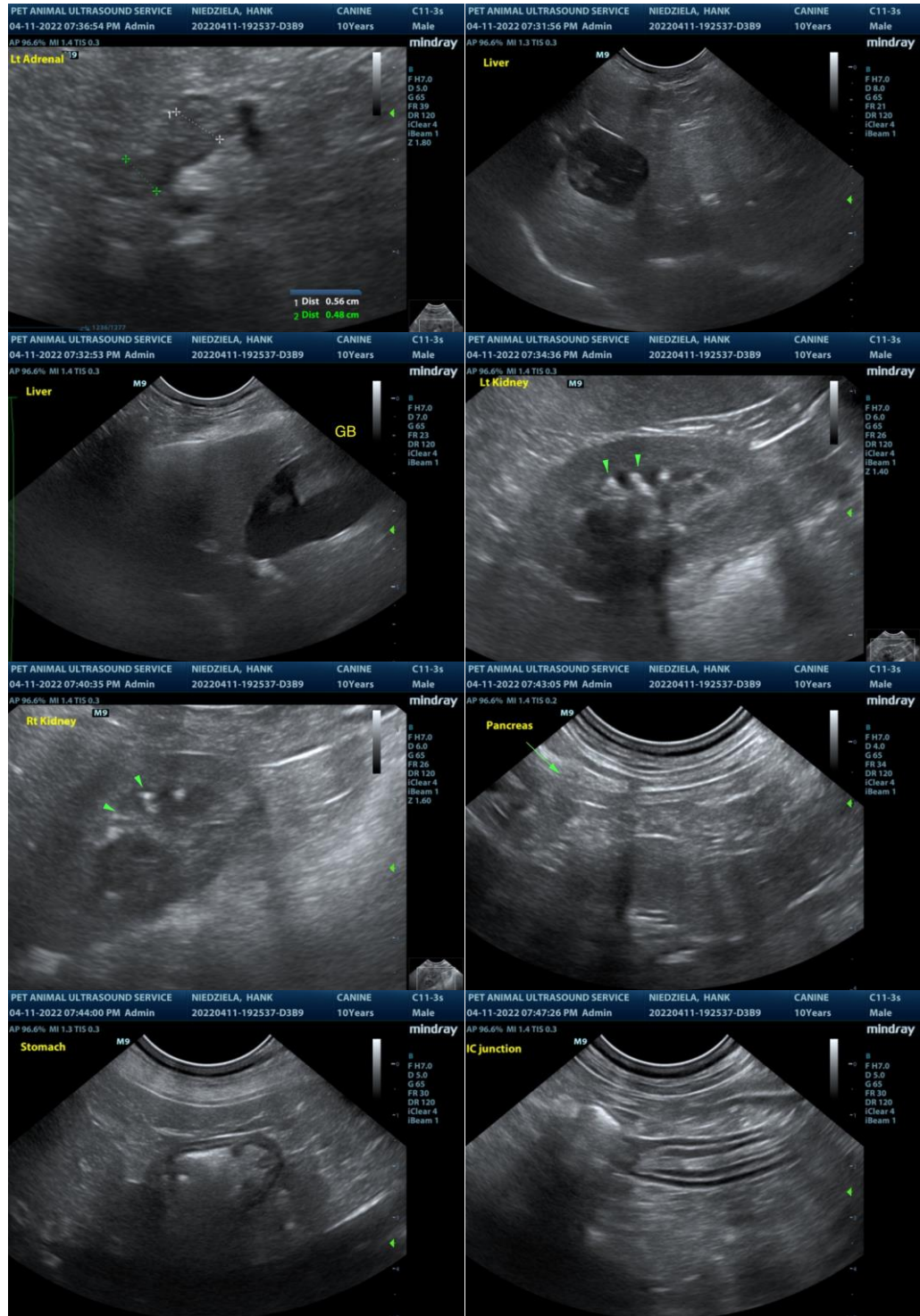
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



PATIENT

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SPECIES

Canine

BREED

Pekingese

SEX

Neutered male

AGE

19 years

WEIGHT

14.3 pounds

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