



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Boomer Mascio
SPECIES Canine
BREED Shih Tzu Mix
SEX MN
AGE 1yr
WEIGHT 13.46lb

Presented for annual exam. Owner reported recent vomiting. History of elevated BUN last year. Presently: BIN 38, Creat 1.9; USG 1.017. R/O congenital/genetic kidney disease/renal dysplasia, kidney insult. Infectious (Lyme negative), lepto, pyelonephritis, toxin (no grapes or raisins fed to dog). Addison's (normal K+).

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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.

Normal size and margination was present in the kidneys. Bilateral prominent to mildly thickened cortex with non-uniform increased cortex echogenicity and pinpoint hyperechoic cortical foci. Bilateral loss of corticomedullary border distinction with mild reduced medullary volume was noted. Scant bilateral pyelectasia was observed. The left kidney measured 3.6 cm in length. The right kidney measured 4.5 cm in length.

The area of the aortic trifurcation was free of pathology.

The residual prostate was free of pathology measuring 0.73 cm in diameter.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.34 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 0.32 cm width at the caudal pole and 0.47 cm width at the cranial pole.

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

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion.

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild non-dependent echogenic debris. The cystic and common bile ducts were normal.

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. The gastric body wall measured 0.29 cm in width. The gastric body wall measured 0.29 cm in width.

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 jejunum wall measured 0.28 cm in width. The duodenum measuring 0.39 cm in width.

INTERPRETED BY

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

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

HOSPITAL NAME

VCA Hanson Animal Hospital

REFERRING VET

Dr. Oscar

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

Boomer Mascio

Pancreas

SPECIES

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.

Canine

Free Abdomen

BREED

No omental masses or peritoneal effusion was present.

Shih Tzu Mix

Focal, mildly prominent to enlarged mesenteric nodes were present. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). The lymph node measured 0.34 cm in diameter.

SEX

MN

ULTRASONOGRAPHIC FINDINGS

AGE

1yr

- Normal bilateral kidney size with mildly thickened cortex, increased cortex echogenicity, subtle cortical hyperechoic foci and loss of corticomedullary border demarcation
- Normal bilateral adrenal glands
- Mild echogenic gallbladder debris

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

13.46lb

The bilateral kidneys were consistent with chronic nephropathy as opposed to acute kidney injury or insult. Given the young age of the patient, some degree of congenital dysplastic changes, underlying nephritis or glomerulonephritis are possible. Pyelonephritis is considered less likely.

INTERPRETED BY

Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

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 DABVP (Canine and Feline)

Empirical therapy for mild chronic nephropathy or IRIS stage 2 CKD would be reasonable. Addison's disease is considered unlikely considering the normal adrenal presentation and appearance of the bilateral kidneys.

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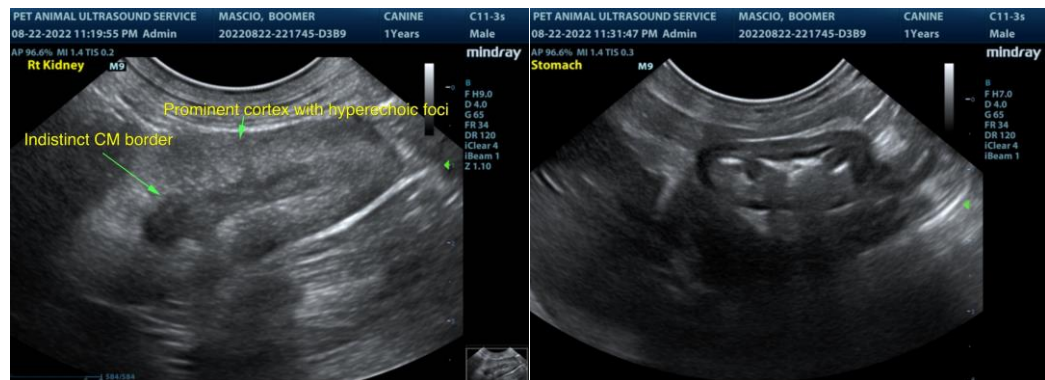
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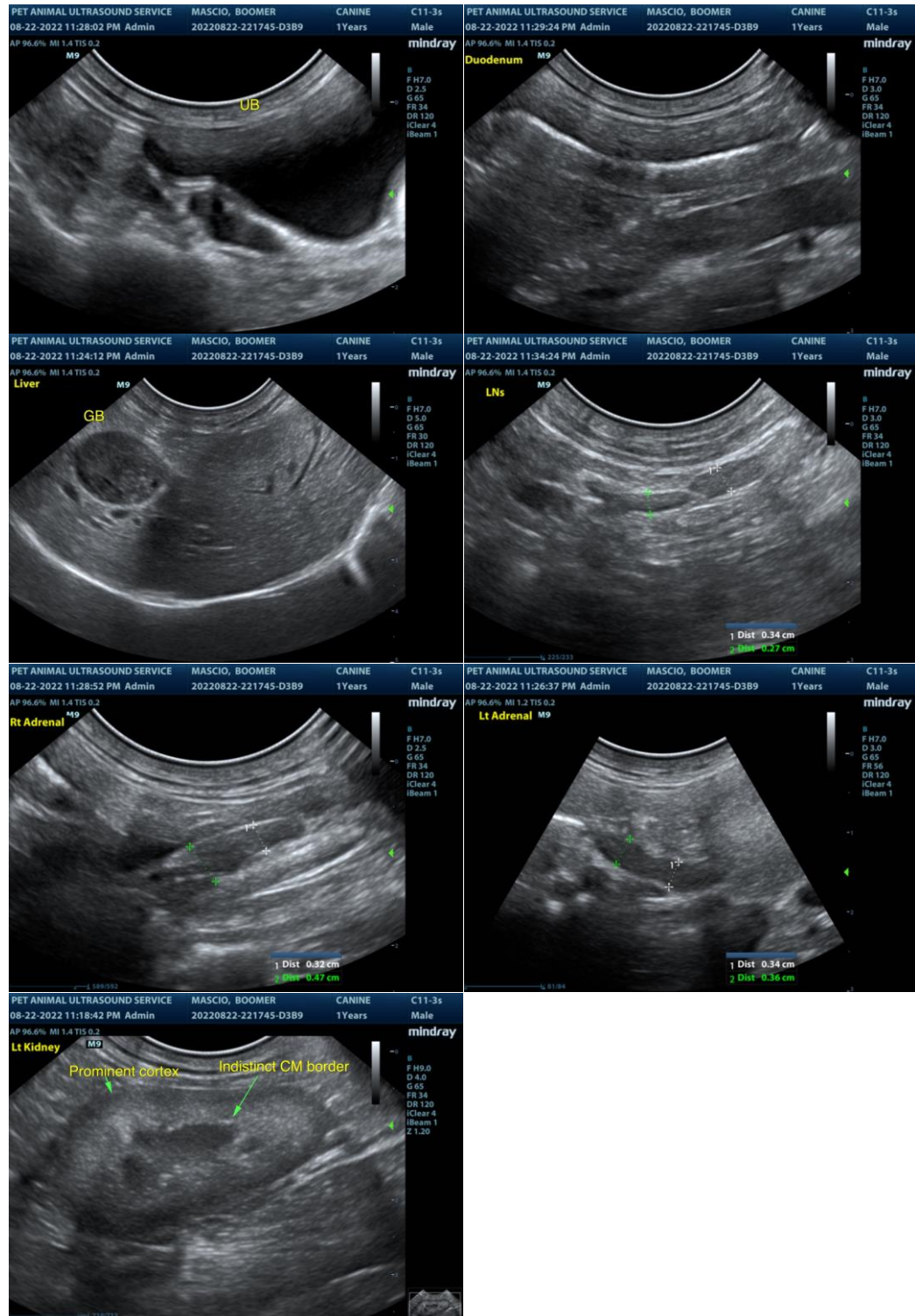
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



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info@SonoPath.com

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