



PATIENT

Benson Mello

PRESENTING CLINICAL SIGNS

Hyposthenuria and elevated SDMA (17ug/dL). Remainder of lab work unremarkable. Possible PU/PD depending on the day. Intermittent loose stools. Medication: Zonisamide 50mg BID. BP: 125 mmHg.

SPECIES

Canine

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. Mild asymmetrical luminal surface to micropolyploid changes were present likely associated with age related mural changes. Anechoic urine was present in the lumen with no uroliths, calculi, or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

BREED

Jack Russell Terrier

SEX

MN

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 0.8 cm in diameter.

No evidence of pathology in the area of the aortic trifurcation.

AGE

9 Years

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 increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Minor pyelectasia was noted in the left kidney. No evidence of left or right retroperitoneal inflammation or effusion. The left kidney measured 4.9 cm in length. The right kidney measured 5.2 cm in length.

WEIGHT

22.6 lbs

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. No evidence of hyperplasia or adrenal tumors. The left adrenal gland measured 0.47 cm width at the caudal pole and 0.39 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 0.45 cm width at the caudal pole and 0.47 cm width at the cranial pole.

**IMAGING
 PERFORMED BY**

Pamela Harrigan, RDMS

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.

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 Hospital

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.

REFERRING VET

David Serra, DVM

The gallbladder was non distended in size with dependent nonorganized echogenic gallbladder debris. The cystic duct and common bile ducts were normal without evidence of dilation.

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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. The gastric body wall measured 0.35 cm width.

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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 jejunum wall measured 0.26 cm width and the duodenum wall measured 0.31 cm width.

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

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

Jack Russell Terrier

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

SEX

MN

ULTRASONOGRAPHIC FINDINGS

Primary

AGE

9 Years

- Mild micropolypliod luminal changes in apical urinary bladder.
- Early mild chronic renal changes with mild left kidney pyelectasia.

Secondary

WEIGHT

22.6 lbs

- Mild gallbladder debris - incidental.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Early chronic renal insufficiency may be considered a top differential diagnosis given the sonographic appearance of the bilateral kidneys, elevated SDMA, and decreased urine specific gravity. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered. The pyelectasia in the left kidney is nonspecific and may be secondary to early chronic renal changes or potential pelvic scarring with unlikely potential for mild chronic left kidney pyelonephritis. No evidence of hepatic or adrenal disease as a potential cause of PU/PD. Leptospirosis titers/pcr may be considered if clinically indicated. Conservative therapy for early chronic insufficiency recommended with monitoring of renal parameters and urine specific gravity.

INTERPRETED BY

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

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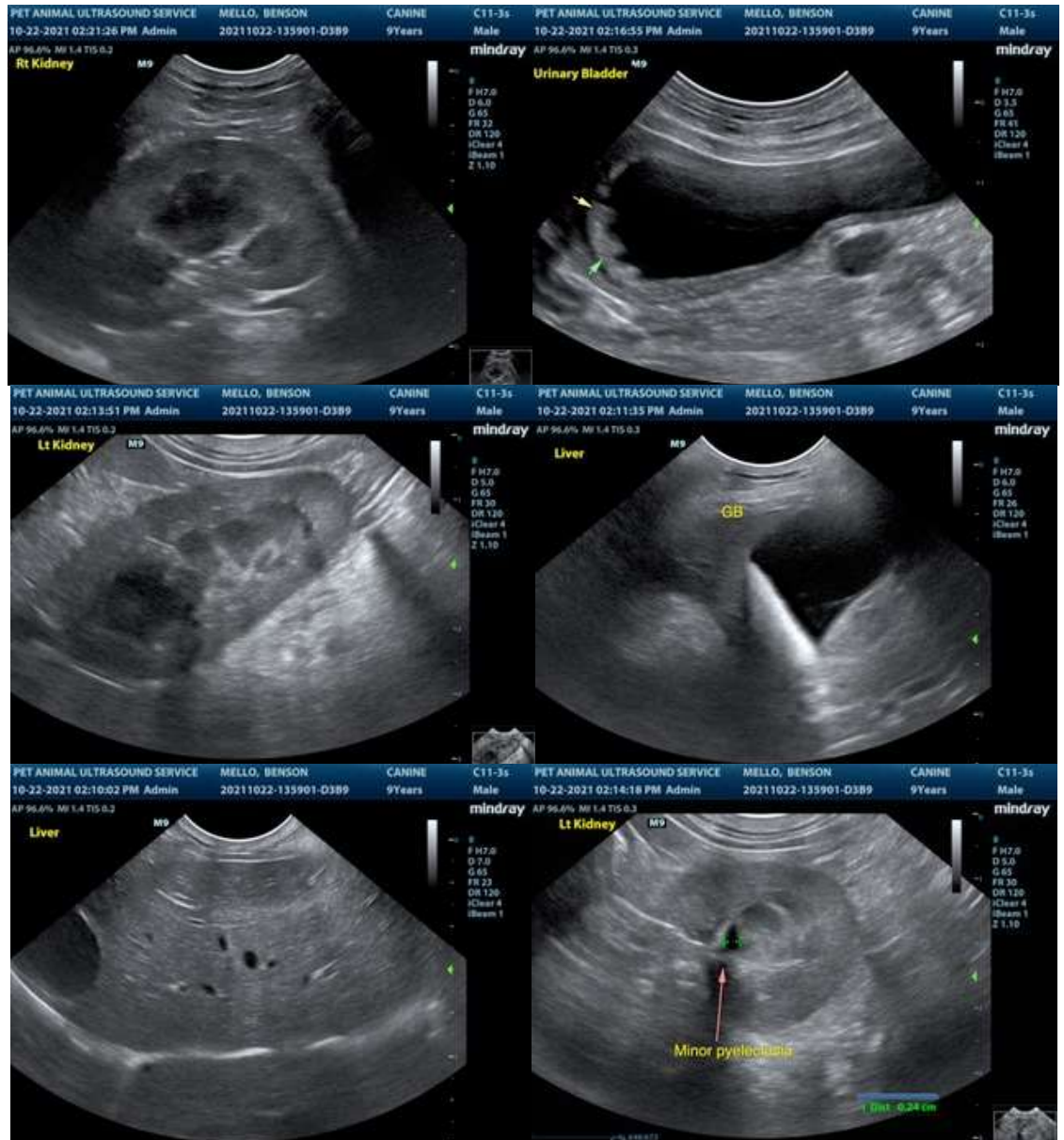
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
 info@SonoPath.com