



PATIENT

Maverick Kolick

PRESENTING CLINICAL SIGNS

Doing well clinically ; normal physical exam. Persistently high normal renal values (now BUN 30, creatinine 1.7. Sedated with butorphanol

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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.

BREED

West Highland Terrier

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

SEX

FS

Normal size and margination were present in the kidneys. Both kidneys exhibited primarily maintained 1:3 cortex / medulla ratio with mild loss of corticomedullary border distinction, pinpoint areas of subtle dystrophic medullary mineral, and mild pyelectasia. The left kidney measured 3.8 cm in length. The right kidney measured 4.2 cm in length.

AGE

1 Year

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 0.30 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 0.38 cm width at the caudal pole and 0.30 cm width at the cranial pole.

WEIGHT

19 lbs

Spleen

INTERPRETED BY

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

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

Pamela Harrigan, RDMS

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. The cystic and common bile ducts were normal.

HOSPITAL NAME

East Boston Animal
 Hospital

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 ventral gastric body wall measured 0.35 cm width.

REFERRING VET

Raman Chopra, DVM

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 duodenum wall measured 0.31 cm width and the jejunum wall measured 0.33 cm width.

INVOICE

49417

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

Pancreas

DATE

1-9-22



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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.

SPECIES

Canine

Free Abdomen

Intermittent mesenteric and focal medial iliac lymph nodes were present. The lymph nodes were essentially isoechoic to adjacent omentum and maintained a normal width: length ratio (<0.5). Example of mesenteric lymph node measured 0.60 cm diameter. These lymph nodes were not consistent with neoplastic or inflammatory criteria and likely incidental or potentially secondary to immunologic immaturity given the patient's age.

BREED

West Highland Terrier

Potential focal area of very scant free fluid noted in the left abdomen adjacent to the left kidney. This is likely incidental.

SEX

FS

ULTRASONOGRAPHIC FINDINGS

Primary

- Normal bilateral kidney size exhibiting mild loss of corticomedullary border distinction, pinpoint minor dystrophic medullary mineral, and scant pyelectasia.

AGE

1 Year

Secondary

- Intermittent benign mesenteric and focal medial iliac lymphadenopathy.

WEIGHT

19 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overall, the kidneys were nonspecific yet without evidence of significant renal corticomedullary pathology. Considerations may include very mild dystrophic renal changes given the patient's young age with potential for mild nonspecific nephritis. The minor to scant pyelectasia noted in both kidneys may be associated with mild pelvic scarring or IV fluid therapy if clinical applicable. No overt evidence of pyelonephritis which is considered unlikely.

INTERPRETED BY

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

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

**IMAGING
PERFORMED BY**

Pamela Harrigan, RDCS

Pending additional urinary workup, monitoring at this stage for evidence of progressive azotemia, given the lack of clinical signs, would be appropriate. Initiation of renal diet could also be considered.

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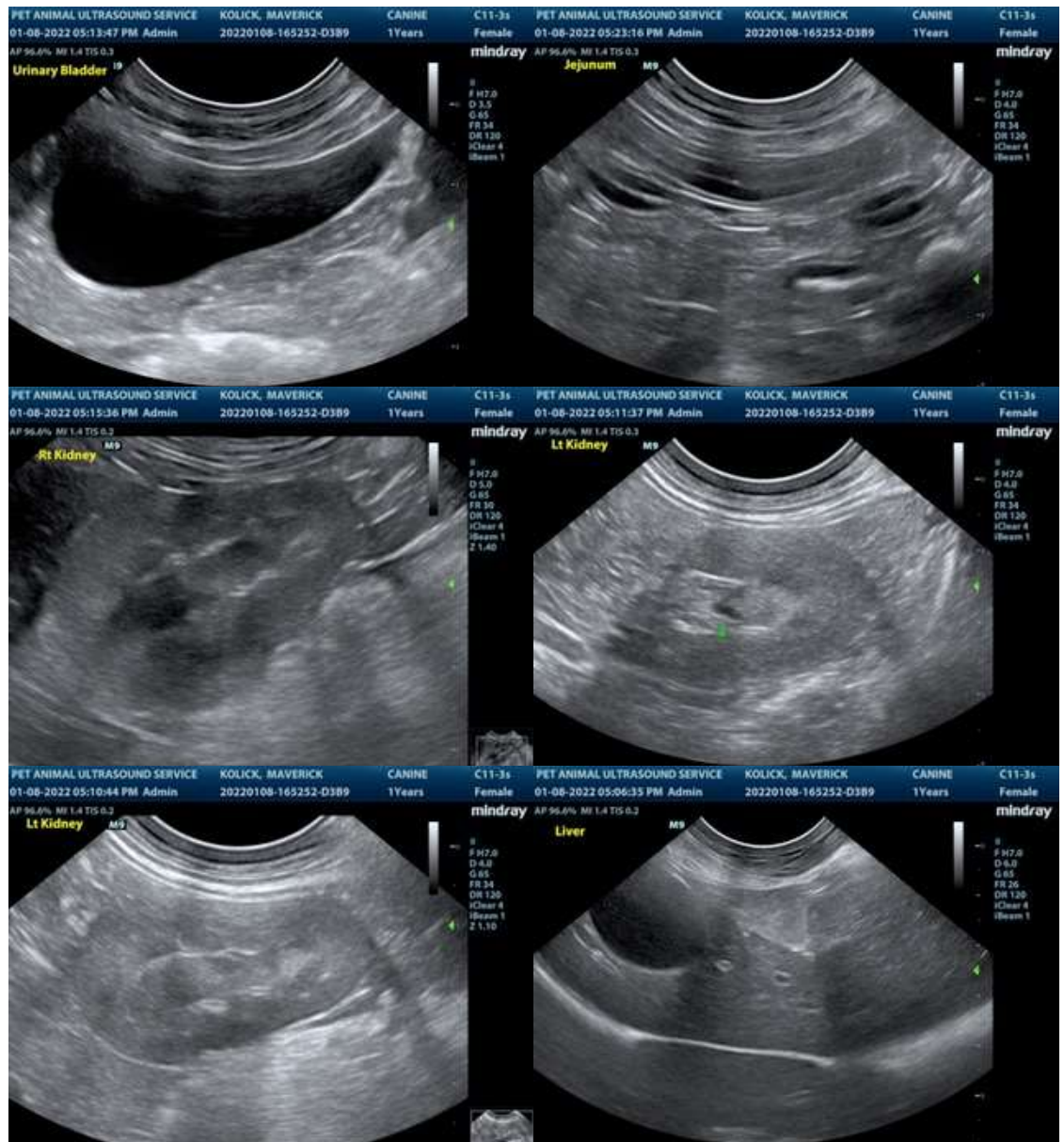
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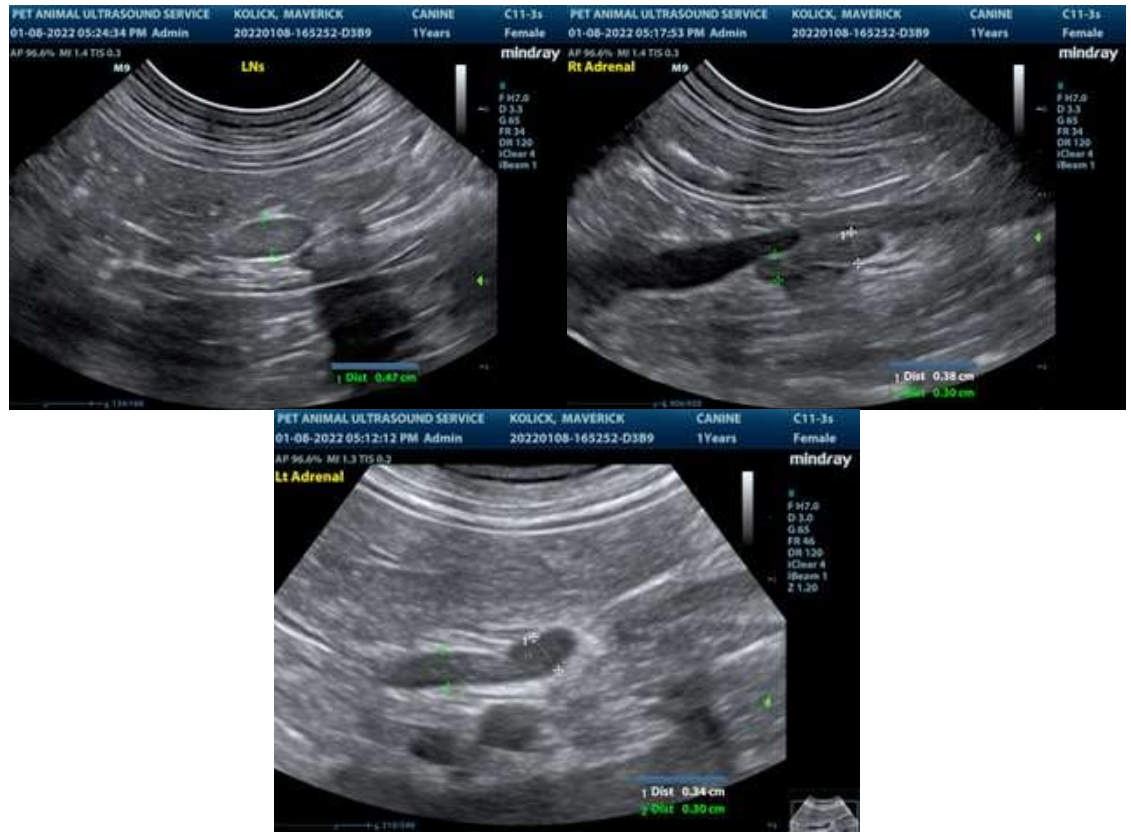
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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