

PATIENT

Lucy Klein

SPECIES

Canine

BREED

Labrador Retriever

SEX

FS

AGE

6yr

WEIGHT

70.6

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Evoniuk

HOSPITAL NAME

State Avenue Vet
Clinic

REFERRING VET

Dr. Lenz

INVOICE

12303ag

DATE

11/29/2022

PRESENTING CLINICAL SIGNS

Presented as a referral: Presented to referring DVM for decreased appetite over a 2wk period, had eaten a single grape prior to initial presentation.

Abnormal PE/Chem/CBC/UA Results: BW from today: CBC WBC: 4.64 LYM: 0.74 MON: 0.09
Chem: BUN: 90 Phos: 6.8 Cre: 4.4 Glob: 1.9 UA: WBC: 3/HPF RBC: 7/ HPF SpG: 1.014

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with non-dependent particulate sediment. The sediment may indicate cellular debris / protein, crystalline debris, lipid, or mucus. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

Minor subnormal left kidney size compared to the right with asymmetrical margination was present. The renal cortex presented uniformly increased in echogenicity with uniform echotexture. The renal cortex appeared to be hypertrophied resulting in an altered cortex: medulla ratio. Mild loss of corticomedullary distinction was also present. The renal medullary volume was subjectively reduced. Mild left kidney pyelectasia with focal areas of minor medullary mineral were present. The left kidney measured 5.6 cm in length. The right kidney measured 6.8 cm in length.

The area of the aortic trifurcation was free of pathology.

The area of the uterine remnant appeared normal and free of pathology.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.7 cm width at the caudal pole and 0.6 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 0.68 cm width at the caudal 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 echogenic non-organized debris. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

Gastrointestinal



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The stomach presented wall thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. Mild gastric distension with mild luminal gas was present.

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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.

Pancreas

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Labrador Retriever

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.

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Free Abdomen

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

ULTRASONOGRAPHIC FINDINGS

AGE

6yr

- Bilateral non-specific nephropathy with minor left kidney pyelectasia and medullary mineral
- Urinary bladder sediment
- Mild gastritis pattern-incident

WEIGHT

70.6

Secondary findings

- Minor gallbladder debris

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

Sonographically the appearance of the kidneys is suggestive of chronic nephropathy given the overall renal appearance as well as presence of minor left kidney medullary mineral. The left kidney pyelectasia may be owing to potential pelvic scarring possibly owing to previous calculi passage or IV fluid therapy (if applicable). The potential for acute on chronic renal insult i.e. infectious, toxin etc. cannot be definitively excluded. Subjectively the kidneys did not appear to be end stage yet the prognosis depends upon renal response to diuresis protocol.

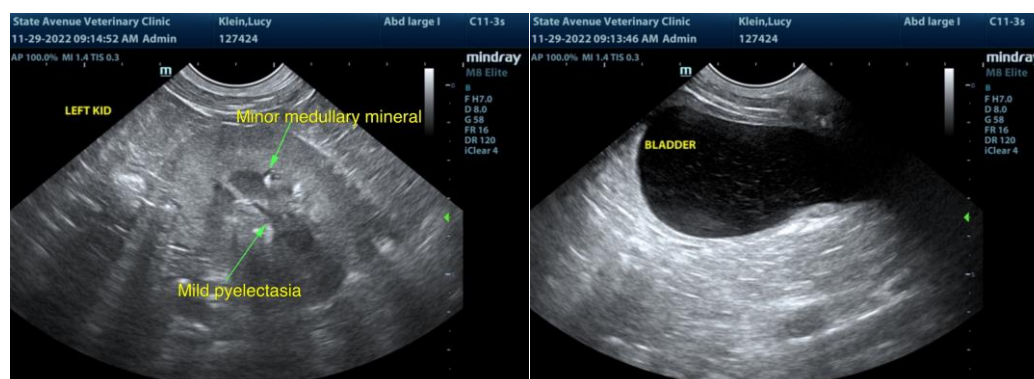
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Urine C/S on a sterile urine sample is suggested especially if evidence of inflammatory urinary bladder debris. Pending renal response, CRD therapy with monitoring of systemic BP is suggested. Baseline UPC level is recommended if no overt evidence of inflammatory sediment.

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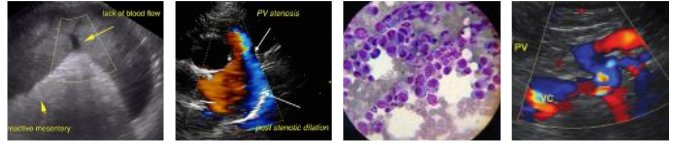
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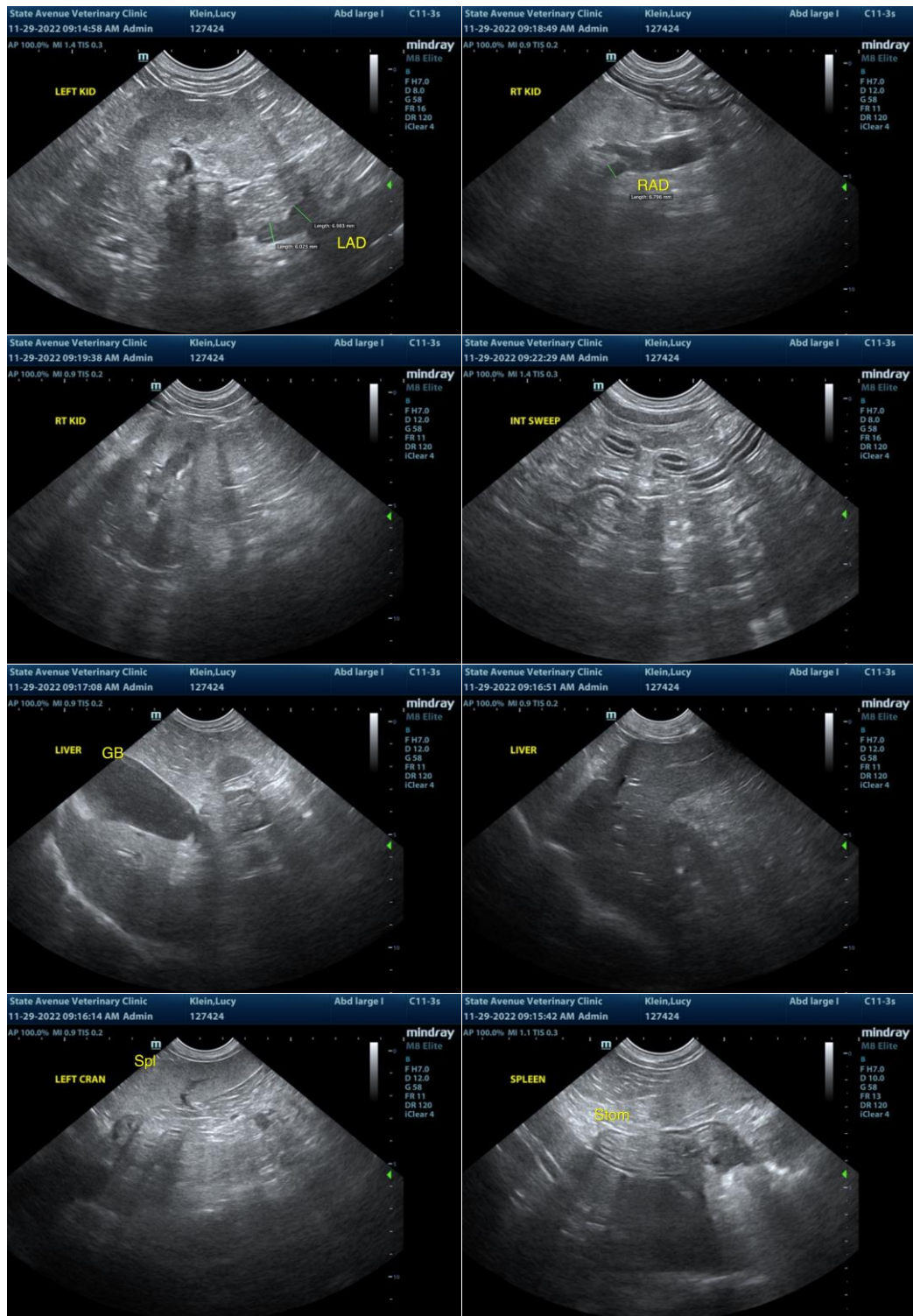
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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mac.daniel@sonopath.com

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