

PATIENT

Sofee Mulivhill

SPECIES

Canine

BREED

Labrador Mix

SEX

FS

AGE

9 years 2 months

WEIGHT

31.8 kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Patti Mayfield, DVM

HOSPITAL NAME

Sunriver Vet Clinic

REFERRING VET

Wendy Meredith,
DVM

INVOICE

10585

DATE

1/27/26

PRESENTING CLINICAL SIGNS

- PU/PD
- Hyposthenuric
- Currently on desmopressin trial; 70% improvement in clinical signs
- urine remains isosthenuric

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 evidence of urine or lumen sediment, mineral, or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

No evidence of pathology was noted in the area of the uterine remnant.

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

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. A small lateral right kidney cortical infarct was noted. The left kidney measured 6.0 cm in length. The right kidney measured 7.7 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.67 cm width at the caudal pole. The right adrenal gland was mildly enlarged in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The right adrenal gland measured 1.1 cm width in the caudal pole.

Spleen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.

Liver/ Gallbladder

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



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containing primarily anechoic content with mild, nonorganized, primarily gravity-dependent gallbladder 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 contained mild, echogenic, nonshadowing ingesta, consistent with food echogenicity and probable post prandial presentation without signs of obstruction or foreign material.

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

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 were evident.

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

- Normal volume liver
- Mild gallbladder debris (non mucocele)
- Minor heterogeneous spleen
- Mild age-related kidneys with small right kidney cortical infarct
- Mildly enlarged nonhomogeneous right adrenal gland

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A definitive cause of the PU/PD was not obvious. Further assessment may include baseline renal staging (screening C/S or UPC level if clinically indicated), bile acid profile, and adrenal screening or workup if clinical signs consistent with Cushing's Syndrome are noted. Minor potential for emerging left adrenal tumor cannot be definitively excluded with mild benign right adrenal hyperplasia or adenomatous change suspected. Sonographic monitoring of the right adrenal gland for evidence of progressive enlargement would be ideal. Leptospirosis titers / PCR could be considered if evidence of hepatic inflammation.

For an additional charge, internal medicine consult can be utilized through SonoPath.com. You can select the internal medicine drop down at <http://spa.sonopath.com/>.



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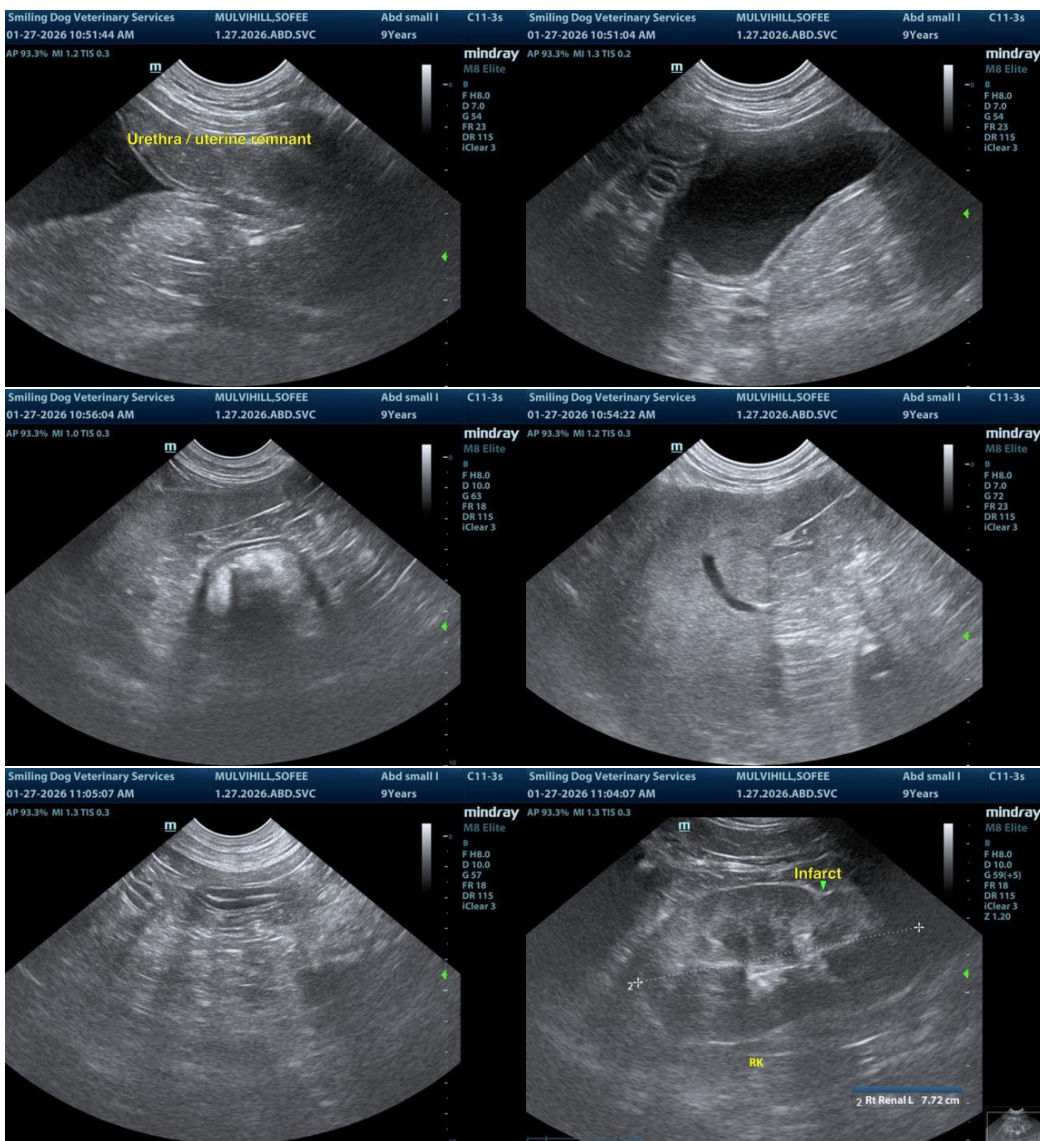
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One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. <https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services>





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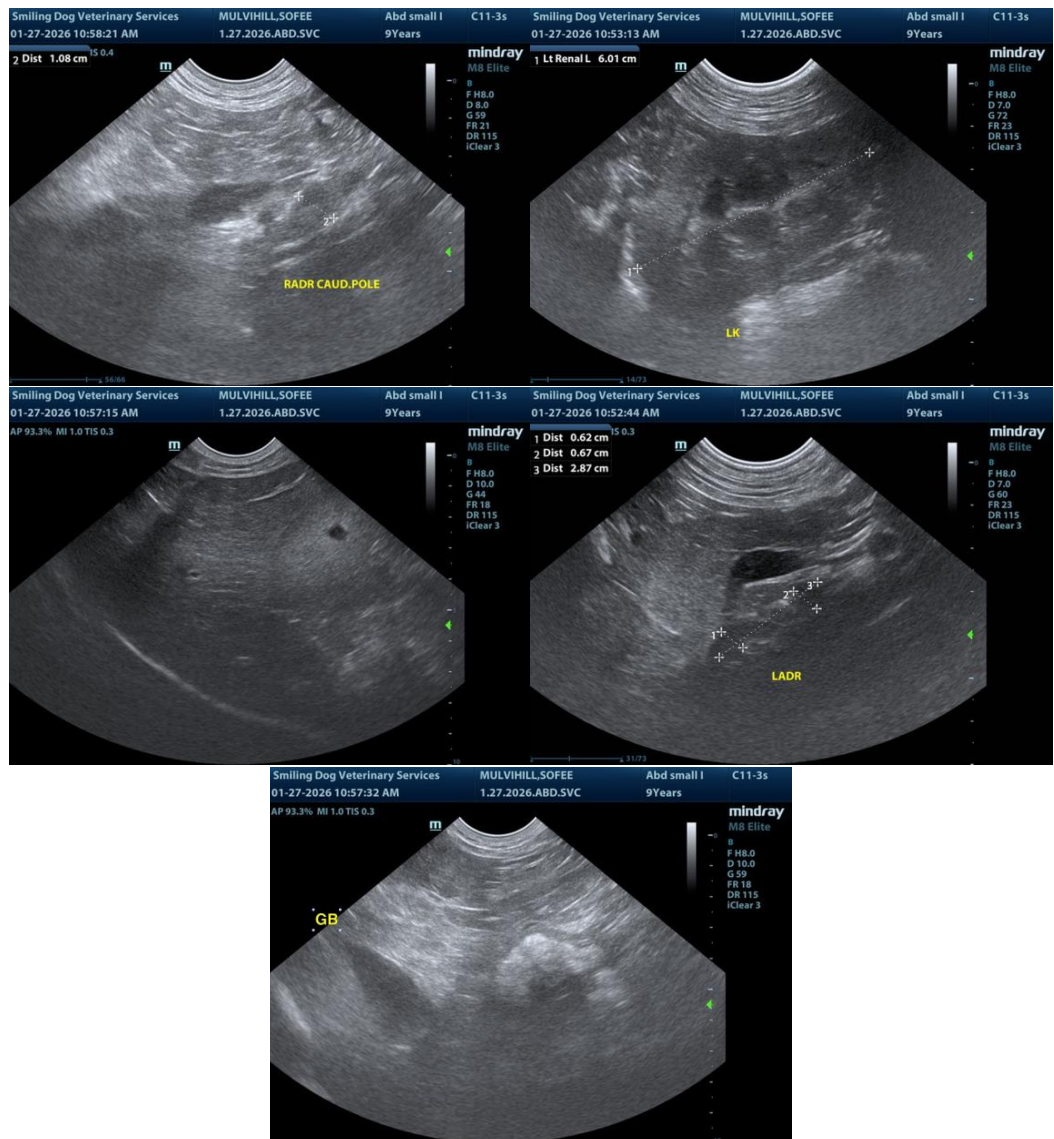
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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