



PATIENT

Hollee Cooper

SPECIES

Canine

BREED

Golden Retriever

SEX

F/S

AGE

10 years

WEIGHT

58 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Griffin

HOSPITAL NAME

Northside VC

REFERRING VET

Dr. Griffin

INVOICE

16027

DATE

1/31/23

PRESENTING CLINICAL SIGNS

Patient: Patient coughing when excited. Patient cough improved with temaril P. The patient presented for geriatric workup and we noted irregular spleen on x-ray and scheduled the ultrasound.

Abnormal PE/Chem/CBC/UA Results: CHEM:ALB: 4.1,LIPA: 2292 CBC: WNL T4/SDMA: wnl Rads - VHS 10.16, no evidence of mass in chest and lungs appear wnl, nodule noted on spleen, mild hip arthritis,

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. 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 was noted.

The area of the aortic trifurcation was free of pathology.

Normal size and margination were 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. The left kidney measured 5.6 cm in length. The right kidney measured 6.1 cm in length.

Adrenal Glands

The left adrenal gland was mildly enlarged in size based on caudal pole width measurement. Heterogeneous nonmineralized parenchyma was present with minor left adrenal capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 3.2 cm length x 1.2 cm width at the caudal pole. The right adrenal gland was overtly normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The right adrenal gland measured 1.0 cm width at the caudal pole.

Spleen

The spleen was normal in size and overall contour with generalized mild parenchyma heterogeneity. Small mildly expansive nonhomogeneous hyperechoic nodule was noted cranial spleen measuring 0.75 cm width. No splenic mass was visualized.

Liver/ Gallbladder

The liver presented mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal. The gallbladder was non-distended in size containing



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primarily anechoic content with mild gallbladder debris. The cystic and common bile ducts were normal.

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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.

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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.

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

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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.

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Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

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ULTRASONOGRAPHIC FINDINGS

- Mild chronic renal changes
- Mildly prominent to nonhomogeneous left adrenal gland - nonspecific
- Nonspecific yet subjective benign mild cranial splenic nodule - no evidence of splenic mass
- Mild benign hepatomegaly - suggestive of vacuolar hepatopathy criteria
- Mild gallbladder debris (non-mucocele)

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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Largely mild geriatric abdomen without evidence of significant visceral pathology, including no overt evidence of splenic neoplastic criteria / masses.

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The cranial splenic nodule, although not specific, is likely indicative of a benign process such as myelolipoma, small granuloma, previous infarction, or similar. Sonographic monitoring of the splenic nodule for evidence of progression would be reasonable.

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Assessment of systemic BP for evidence of hypertension which may allude to a more aggressive emerging left adrenal pathology, as well as ideally sonographically monitoring of the left adrenal gland for evidence of progressive enlargement, is recommended.

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Hepatosupportive medications may be considered if evidence of cholestasis going forward is noted.



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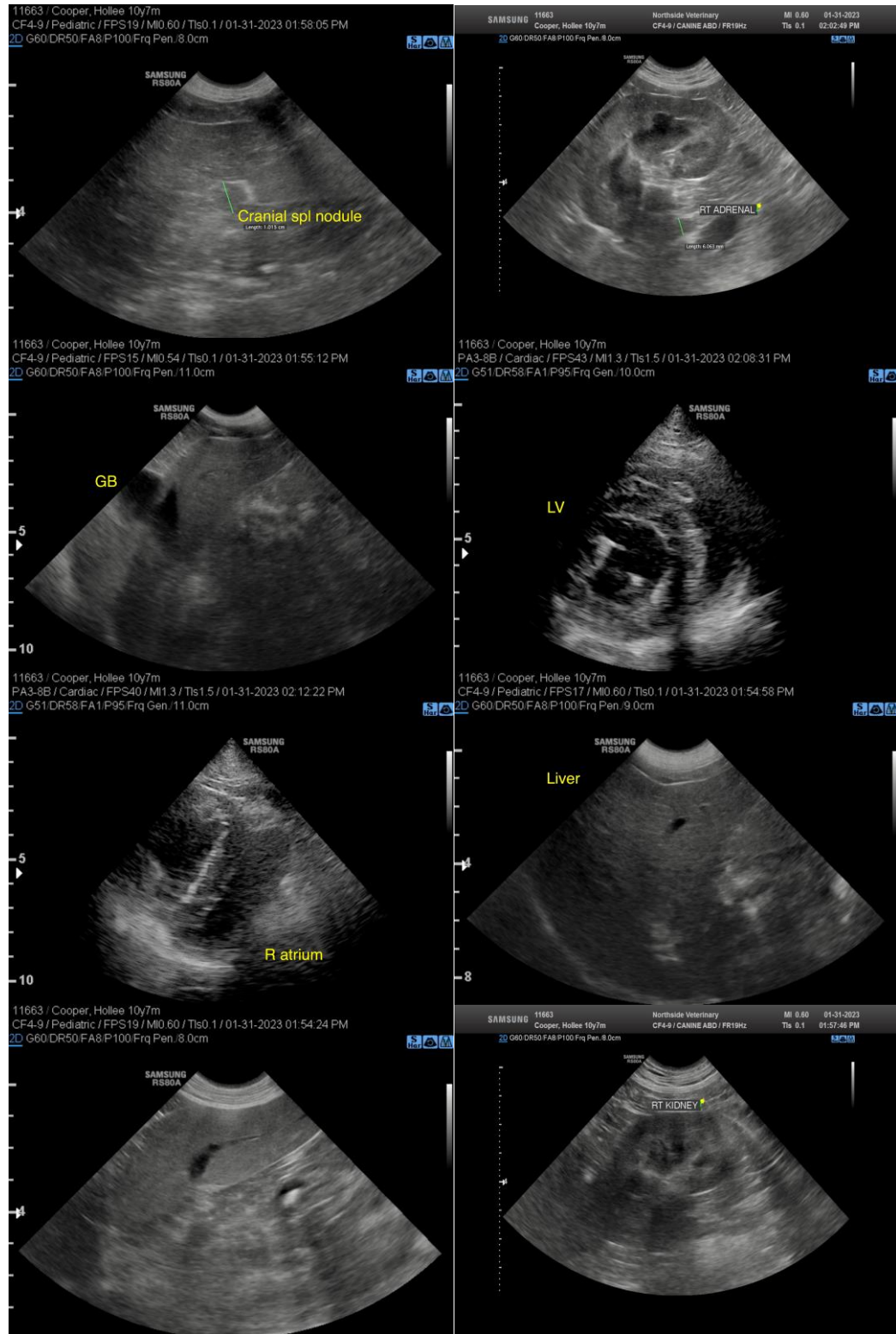
Dr. Griffin

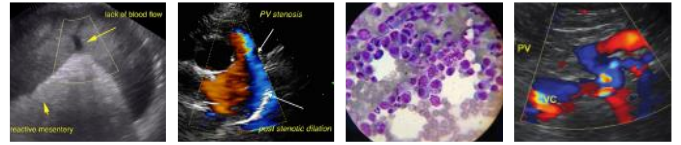
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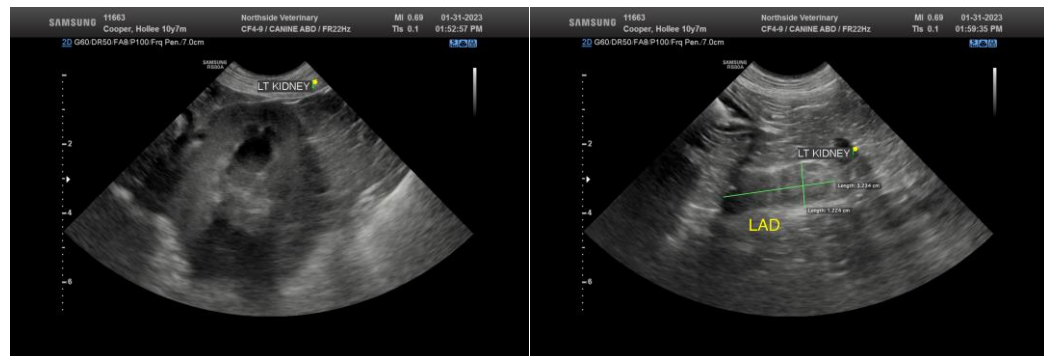
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)
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