



**PATIENT PRESENTING CLINICAL SIGNS**

Hercules Miller PU/PD, pendulous abdomen, hair loss/thinning.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine **Urinary System**

**BREED** The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 5.0 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.

Lab Mix

**SEX** The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 1.2 cm in diameter.

MN The area of the aortic trifurcation was free of pathology.

**AGE** 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. Pinpoint areas of medullary mineral were noted. The left kidney measured 7.3 cm in length. The right kidney measured 7.6 cm in length.

**WEIGHT**

60.1

**Adrenal Glands**

**INTERPRETED BY** Unilateral enlargement of the left adrenal gland was present exhibiting variable asymmetrical contour and mixed echogenic nonmineralized parenchyma with nonuniform echotexture. Vascular invasion was not apparent. The enlarged adrenal gland measured 4.0 cm length x 2.4 cm width at the caudal pole. The right adrenal gland was subnormal in size measuring 2.7 cm length x 0.57 cm width at the caudal pole.

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

**IMAGING**

**PERFORMED BY**  
Rebekah Jakum, CVT  
ARDMS/RVT

**Spleen**

The spleen exhibited potential for mild enlargement with 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. Maintained symmetrical capsule contour was present. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Normal vascularity was noted. 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. No splenic masses were noted.

**HOSPITAL NAME**

Creekview VH

**REFERRING VET**

Dr. Ballek

**Liver/ Gallbladder**

The liver exhibited generalized enlargement with normal structure and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and evidence of parenchymal remodeling and discrete hypoechoic nodular changes. No hepatic masses were noted. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size containing mild dependent to nondependent

**INVOICE**

14996

**DATE**

9-27-22



**PATIENT**

mildly hyperechoic gallbladder debris. No evidence of gallbladder or peripheral gallbladder inflammatory criteria was noted. The cystic and common bile ducts were normal.

Hercules Miller

**Gastrointestinal**

**SPECIES**

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.

Canine

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.

**BREED**

Lab Mix

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

**SEX**

**Pancreas**

MN

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.

**AGE**

**Free Abdomen**

2011

No overt lymphadenopathy or peritoneal effusion was present.

**WEIGHT**

**ULTRASONOGRAPHIC FINDINGS**

60.1

- Left adrenal mass
- Subnormal right adrenal gland
- Mild age-related renal changes with pinpoint medullary mineral
- Hepatomegaly exhibiting mildly nonuniform to discretely nodular parenchyma
- Mild gallbladder debris (non-mucocele)
- Possible mild splenomegaly - subjectively benign

**INTERPRETED BY**

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 (Canine and Feline)

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**IMAGING PERFORMED BY**

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 ARDMS/RVT

Full adrenal workup including LDDST, as well as systemic BP to assess for evidence of hypertension which may potentially allude to a concurrent left adrenal pheochromocytoma, is recommended.

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The hepatic parenchymal changes, although nonspecific, are likely suggestive of vacuolar hepatopathy with the possibility of concurrent hepatic parenchymal inflammation. No overt evidence of primary vs. metastatic hepatic neoplastic criteria, which is thought less likely.

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Dr. Ballek

Screening hepatosplenic FNA cytology, assuming normal clotting status and using a 25-gauge needle, could be considered primary to ensure only benign changes are present. Three-view chest radiographs are suggested if not done.

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Abdominal CT is likely ideal for further assessment of the left adrenal mass, as well as potential surgical planning if surgery is a possibility in this case.

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Hercules Miller

**SPECIES**

Canine

**BREED**

Lab Mix

**SEX**

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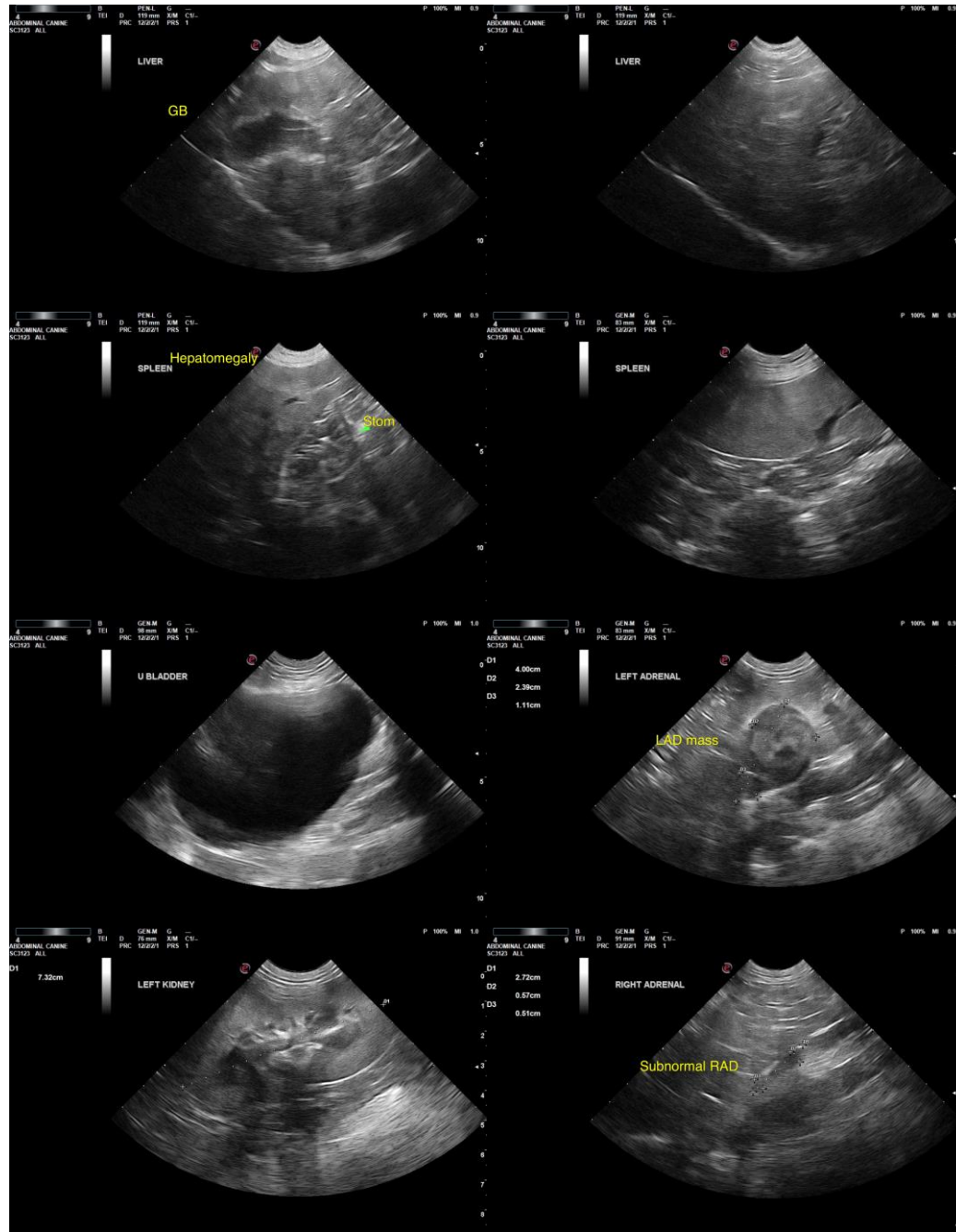
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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