



## PATIENT

Dmitri Rhoades

## SPECIES

Canine

## BREED

Pit Bull Mix

## SEX

MN

## AGE

10 years

## WEIGHT

79 lbs.

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Amanda Olsen,  
VMD

## HOSPITAL NAME

Limestone VH

## REFERRING VET

Katherine Williams,  
DVM

## INVOICE

10942

## DATE

6/2/26

## PRESENTING CLINICAL SIGNS

Dmitri, 10 yr MN Pit Bull Mix, presented for evaluation of pigmentation changing around nose as well as muscle wasting changes within the past few months. Owner noticed the muscle wasting most prominently around the spine and hind limb. Owner has said that it's been noticeable and worsening over the past few months. On PE, mild diffuse muscle wasting along hind-end. Nasal planum is crusted with pigmentation changes. H/L NSF. Mild increase in ALT as of 2/14/25. Checking for underlying causes of muscle wasting.

## 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 were noted.

There was no obvious pathology in the area of the residual prostate.

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

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 corticomodullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.8 cm in length. The right kidney measured 7.1 cm in length.

### *Adrenal Glands*

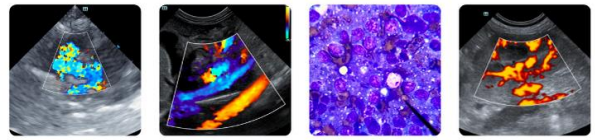
The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.7 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.79 cm width 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/Gallbladder*

The liver was subjectively normal in size, structure, and contour. Normal hepatic vascular volume was present. 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 containing primarily anechoic content with mild variably congealed hyperechoic 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 without evidence of retained ingesta, fluid, 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 formed feces in lumen.

## *Pancreas*

The area of the pancreas was normal, presenting 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.

## *Free Abdomen*

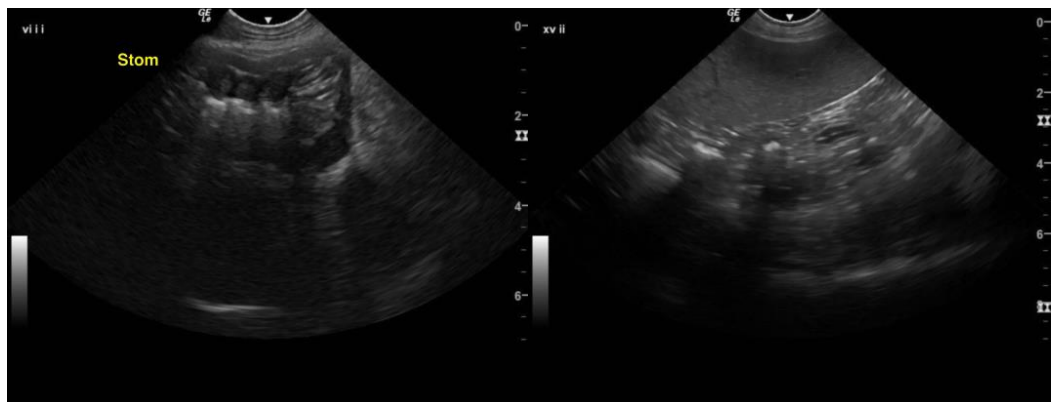
No overt lymphadenopathy or peritoneal effusion was present.

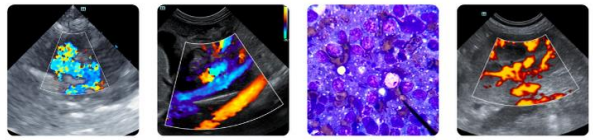
## ULTRASONOGRAPHIC FINDINGS

- Sonographically normal liver – consistent with mild benign hepatopathy
- Mild nonorganized gallbladder debris (non mucocele)
- Normal gastrointestinal tract and area of pancreas
- Normal spleen
- Mild age-related renal changes

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is no evidence of significant visceral pathology as a definitive cause of the patient's muscle wasting. The low-grade hepatopathy is nonspecific and consistent with benign criteria with mild nonspecific hepatic or hepatobiliary inflammation, given ALT elevation (gallbladder debris) favored. A GI panel to include PLI/TLI/Cobalamin/Folate to assess for nonstructural microscopic intestinal disease, as well as screening three view chest radiographs is suggested. Correlation with neurological and musculoskeletal exam is recommended.





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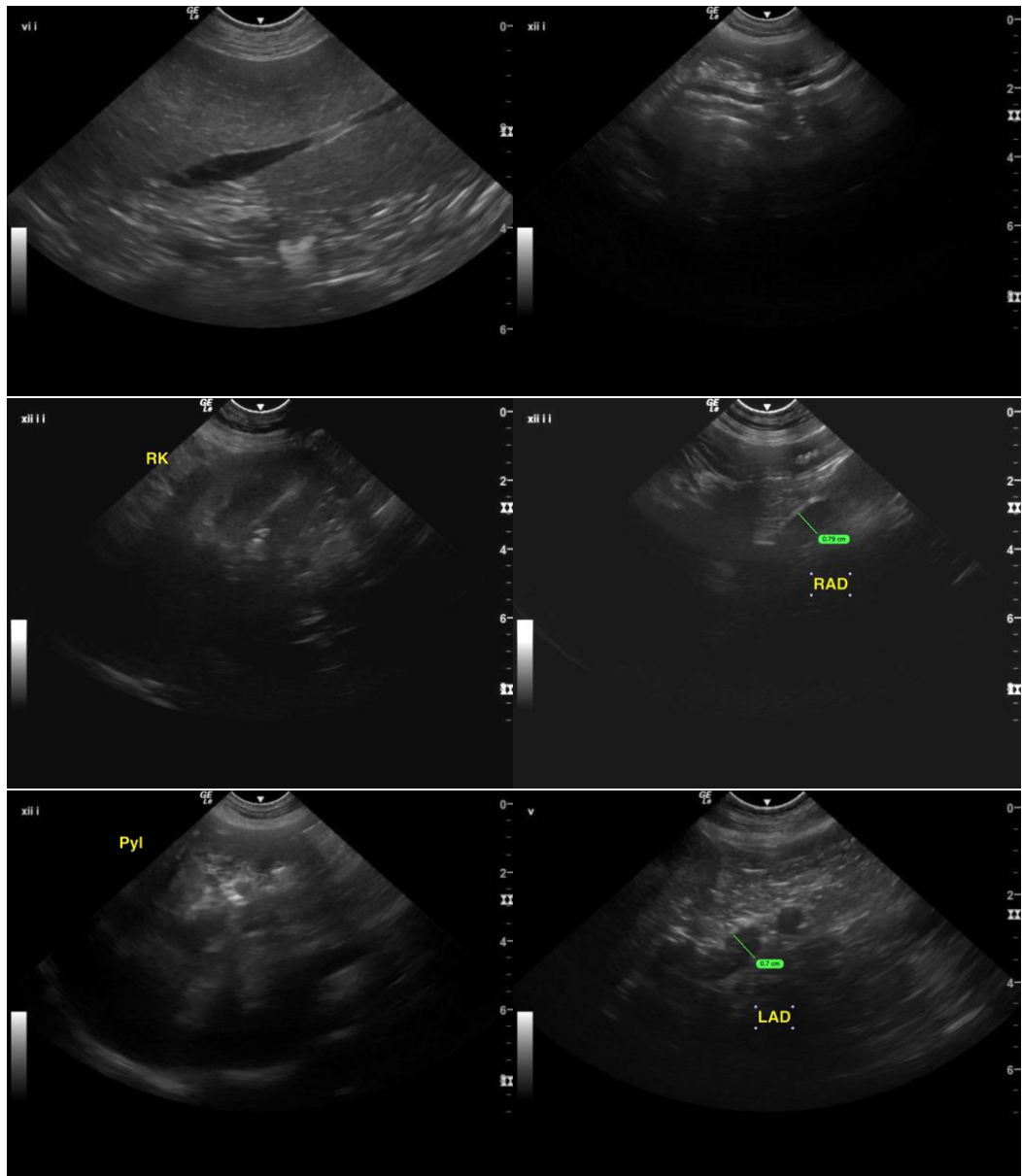
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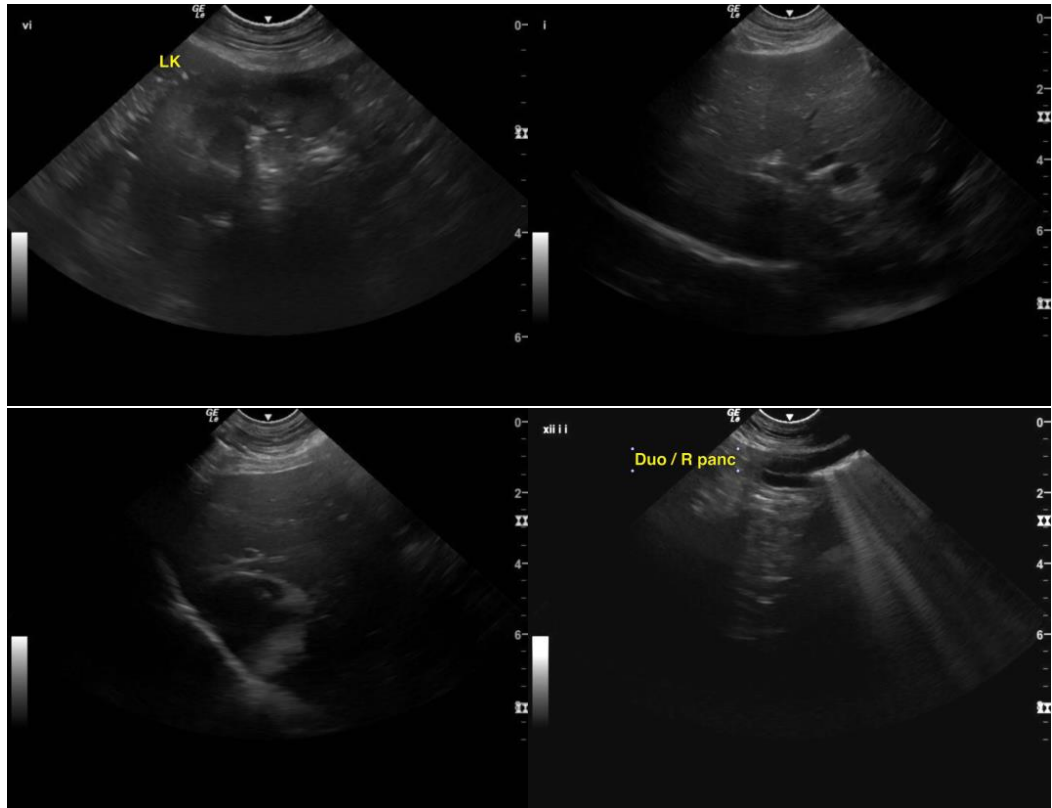
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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