



## PATIENT

Kenzie Appleton

## SPECIES

Canine

## BREED

Golden Retriever

## SEX

Female Spayed

## AGE

12y 9m

## WEIGHT

65.2 lbs

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Amanda Olsen, VMD

## HOSPITAL NAME

Limestone VH

## REFERRING VET

Amanda Olsen, VMD

## INVOICE

13423

## DATE

4/23/26

## PRESENTING CLINICAL SIGNS

History: Patient presented earlier this week to discuss worsening arthritis, suspect splenic mass was found on screening A-FAST. Patient returned for full ultrasound today.

Abnormal PE/Chem/CBC/UA Results: 4/21/26: WBC 16.3, HGB 10, HCT 33, PLT 461 with increased estimate, Neut 13040, Reticulocytes 3%/144200, BUN 42, Cre 2, Chol 388, Amy 2784, PSL 162

## 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.

Normal size and margination was present in the left kidney. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 5.8 cm in length. The discernible right kidney exhibited distinguishable corticomedullary architecture with indistinct corticomedullary border demarcation. Mild to moderate hydronephrosis with concurrent indistinctly visualized yet proximal right hydro ureter. Undifferentiated, mixed echogenic mass in the area of the right kidney was present measuring ~9-10 cm in diameter.

### Adrenal Glands

The left adrenal gland was normal in size, position and shape measuring 0.67 cm width at the caudal pole. The right adrenal gland was not definitively visualized.

### Spleen

Non-homogeneous cavitated splenic mass was present measuring ~6.6 cm in diameter. Potential for additional non-homogeneous splenic mass directly adjacent to but possibly separate to the discernible splenic mass, not definitively excluded. The remainder of the spleen was sonographically normal.

### Liver

The liver presented mildly enlarged in size with normal vascular volume. 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 minor, gravity dependent, hyperechoic biliary sludge. The cystic duct and common bile ducts were normal without evidence of dilation.

### 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.

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 was evident.

## Free Abdomen

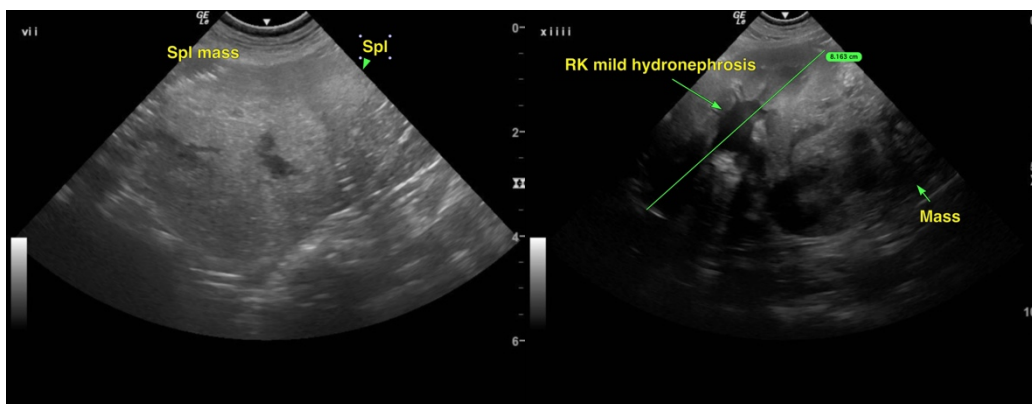
Surrounding perisplenic to perinephric mildly hyperechoic tissue and no obvious evidence of peritoneal effusion noted. No visualized significant mid abdomen mesenteric lymphadenopathy present.

## ULTRASONOGRAPHIC FINDINGS

- Non-homogeneous cavitated splenic mass to possible masses
- Undifferentiated mass area of the right kidney
- Mild to moderate right kidney hydronephrosis and indistinct proximal right hydro ureter
- Intact, mild age-related left kidney
- Mild, non-congested hepatomegaly
- Minor, non-organized gallbladder debris (non-mucocele)

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The mass in the area of the right kidney appeared separate from the confirmed splenic masses with primary right renal mass favored. Non-renal origin of the mass with involvement of the right adrenal gland cannot be definitively excluded. Extension of large non-obvious splenic mass in the area of the right kidney thought less likely. Secondary right ureter obstruction and concurrent mild to moderate right hydronephrosis is present. Assuming no pathology on 3-view chest radiographs, abdominal CT for further clarification of the masses, assessment for non-obvious metastasis, an assessment of surgical resectability or planning if surgery is a potential in this patient is recommended.





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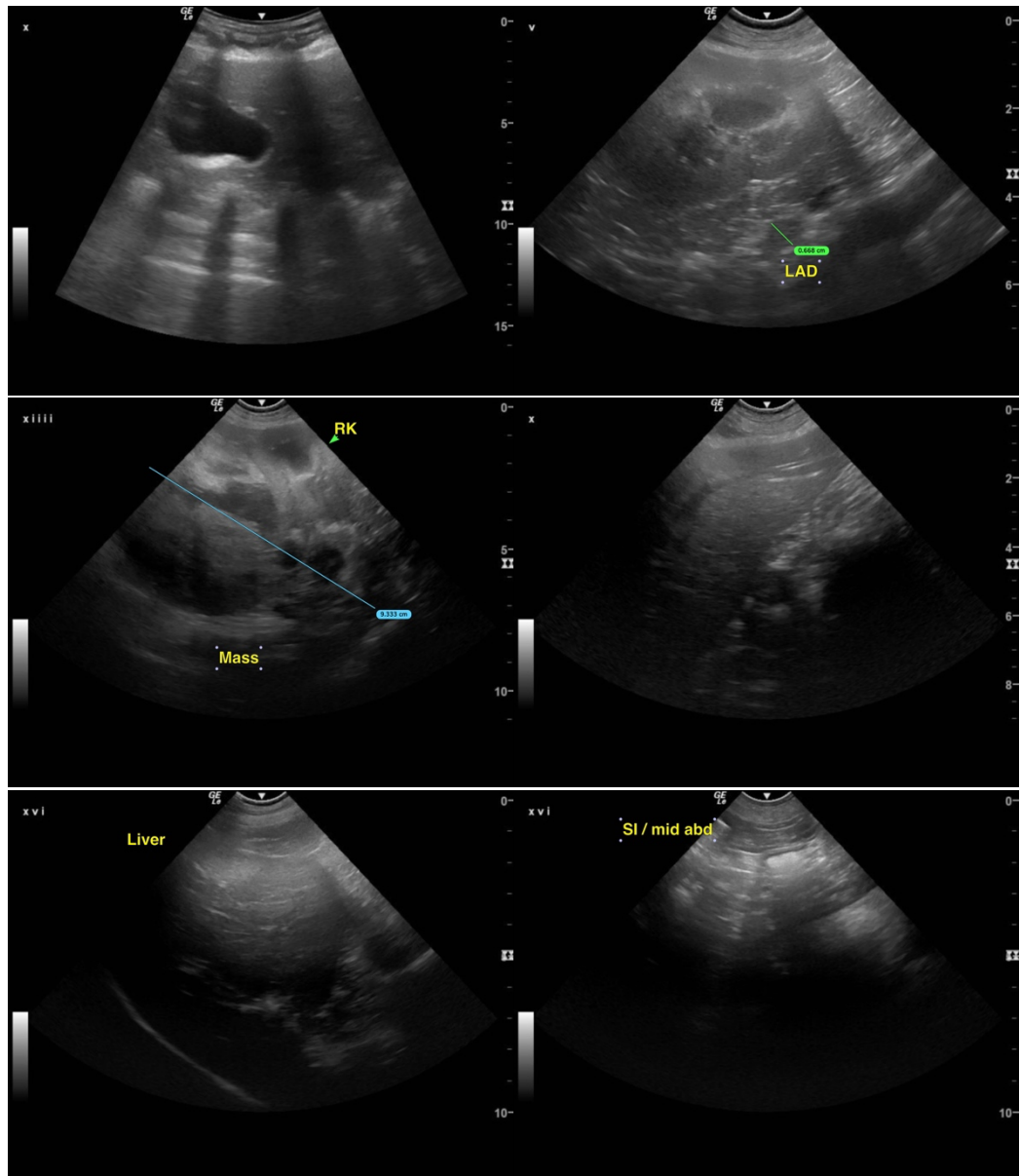
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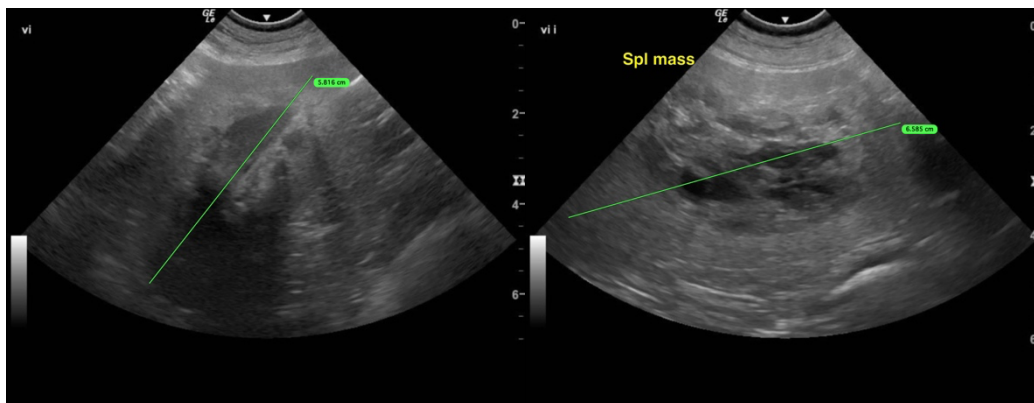
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)