



PATIENT

PRESENTING CLINICAL SIGNS

Precious Rittenhouse

Patient has history of intermittent inappetence.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: CHEM 10 (2/15/23): BUN: 38 ALB: 4.0 ALT: 448 ALKP: 882
CBC/CHEM/SDMA/TT4 (1/11/23): RBC: 5.28 HCT: 33.2 HGB: 12.1 PLT: 611 PCT: 0.76 SDMA: 17 BUN: 29
ALT: 155 ALKP: 468 CHOL: 368 AMYL: 2007 LIPA: 5186 CPL: ABNORMAL XRAY: Enlarged liver with rounded margins.

BREED

Rottweiler

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Urinary System

F/S

The urinary bladder, trigone, and cystourethral junction 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.

AGE

12 years 4 mo

No evidence of medial Iliac or sublumbar lymphadenopathy.

WEIGHT

69.8 lbs.

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 to moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Intermittent cortical cysts were present. The left kidney measured 7.6 cm in length. The right kidney measured 8.3 cm in length.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.77 cm width in the cranial pole and 0.95 cm width in the caudal pole. The right adrenal gland was not definitively visualized, yet no overt pathology was noted.

IMAGING PERFORMED BY

Dr. Mack

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.

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INVOICE

Liver/ Gallbladder

16204

The liver was enlarged exhibiting areas of capsule asymmetry with generalized nonhomogeneous irregular to isoechoic nodular parenchyma. The gallbladder was non-distended in size containing primarily anechoic content with mild, echogenic gallbladder debris. No evidence of gallbladder or peripheral gallbladder inflammatory criteria was noted. The cystic and common bile ducts were normal.

DATE

2/16/23



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Gastrointestinal

Precious Rittenhouse

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.

SPECIES

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.

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

SEX

F/S

Pancreas

The pancreas was normal in size and contour with isoechoic to mild heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

AGE

12 years 4 mo

Free Abdomen

No omental masses, lymphadenopathy, or evidence of peritoneal free fluid were noted.

WEIGHT

69.8 lbs.

ULTRASONOGRAPHIC FINDINGS

- Hepatomegaly exhibiting moderate heterogeneous irregular isoechoic nodular parenchyma - no specific, vacuolar hepatopathy, chronic inflammatory / immune-mediated disease, nodular hyperplasia, hematopoiesis, fibrosis, infiltrative neoplasia (thought less likely), or other hepatopathy
- Mild gallbladder debris - not consistent with mucocele criteria
- Bilateral mild to moderate chronic renal changes with small cortical cysts
- Sonographically normal gastrointestinal tract
- Heterogeneous pancreas

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

Correlation with the liver's sonographic appearance and the pending hepatic FNA cytology is recommended. Hepatic core surgical biopsy is likely required for a definitive diagnosis. No sonographic evidence of significant or active pancreatitis was noted, although benign remodeling owing to previous inflammatory episode or persistent low-grade to chronic pancreatitis is possible.

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As-needed gastrointestinal support as well as hepatosupportive medications which may include Denamarin and Ursodiol would be appropriate.

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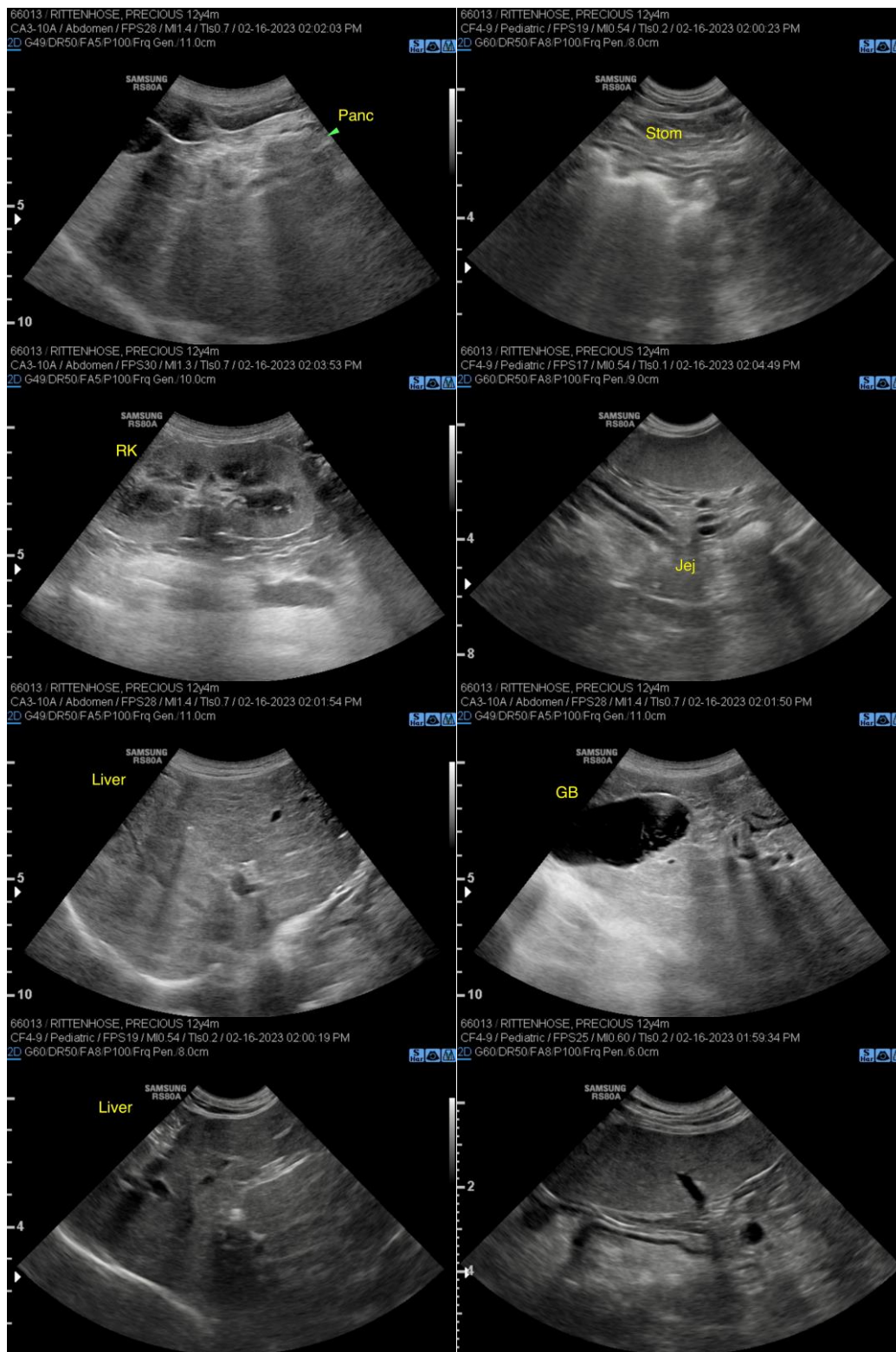
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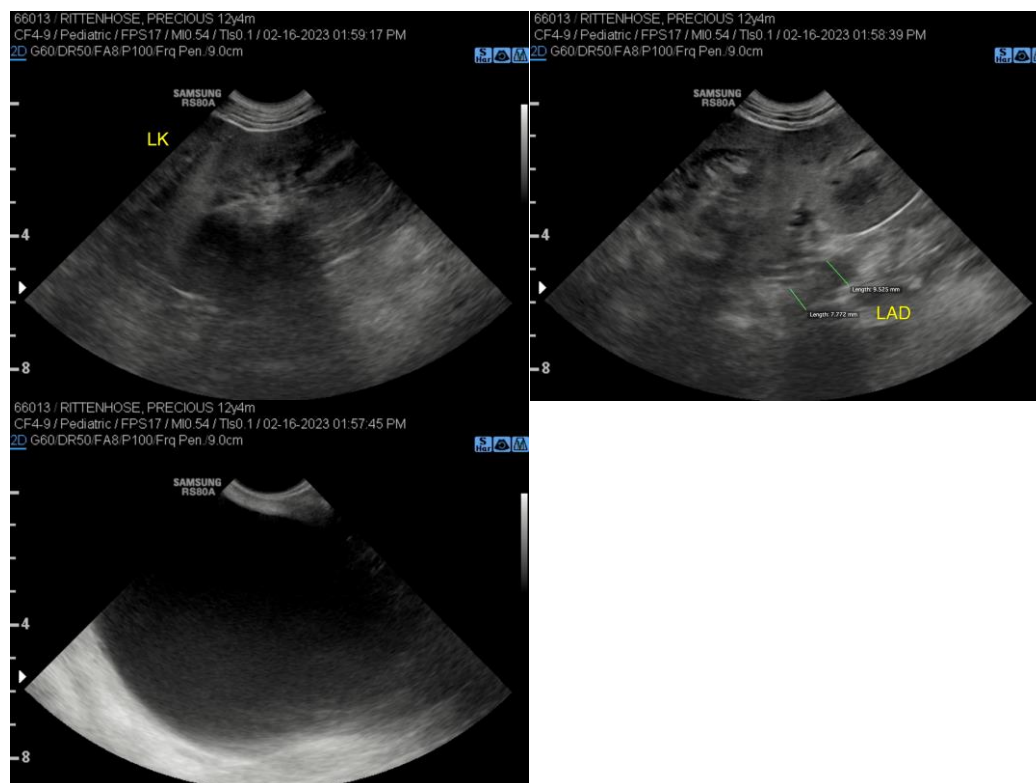
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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