



PATIENT PRESENTING CLINICAL SIGNS

Ruby Hemsley

History: Has masses on her hind legs that need to be removed. Pre-surgical bloodwork showed a significant increase in ALP since last January 2021. Chest rads appear free from metastases. On PE her heart sounds normal without murmur or arrhythmia Unable to palpate much in abdomen- very deep chested. Any concerns before we proceed with GA and surgery?

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: ALP 905 U/L (23-212). Was 150 U/L last January 2021. Please see attached rads and recent bloodwork.

BREED

Great Dane

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Spayed Female

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4.0 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.

AGE

8 Years

Both kidneys were normal in size and margination with maintained 1:3 cortex to medulla ratio with minor loss of corticomedullary border demarcation. Pinpoint areas of medullary mineralization noted. The right kidney measured 8.0 cm. The left kidney measured 8.8 cm.

WEIGHT

66 kg

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 3.5 cm in length x 0.86 cm width at the caudal pole.

INTERPRETED BY

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

The right adrenal gland was indistinctly visualized owing to patient size without overt pathology, subjectively measuring 1.1 cm at the caudal pole.

Spleen

IMAGING PERFORMED BY

Crystal Hill

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.

HOSPITAL NAME

Simcoe AH

Liver

REFERRING VET

Dr Kennedy

The liver was subjectively normal in size, structure, and contour. 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.

INVOICE

14592

The gallbladder was non distended in size with mild gallbladder debris. The cystic duct and common bile ducts were normal without evidence of dilation.

Gastrointestinal

DATE

4/4/22

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.



PATIENT

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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.

SPECIES

Canine

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.

BREED

Great Dane

Free Abdomen

No omental masses, lymphadenopathy or effusion was present.

SEX

Spayed Female

ULTRASONOGRAPHIC FINDINGS

- Early to mild age-related kidneys
- Benign hepatopathy
- Mild gallbladder debris
- Subtle heterogeneous spleen

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Although not specific, the hepatic presentation is consistent with benign hepatopathy and suggestive of vacuolar hepatopathy given the ALP elevation with potential for minor nonclinical cholestasis. Inflammatory hepatopathy could also be present (i.e., cholangiohepatitis). No evidence of hepatic or hepatobiliary neoplastic criteria. Hepatic function is normal given the normal albumin, glucose, BUN levels. Hepatosupportive medications, such as Denamarin and Ursodiol may prove beneficial.

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DABVP (Canine and
Feline)

No overt evidence of splenic, primary versus metastatic neoplastic criteria. If the hind limb masses are neoplastic (i.e., mast cell tumor), screening ultrasound guided FNA of the spleen, using a 25-gauge needle and assuming normal clotting status could be considered, primarily to ensure only minor benign or age-related changes are present. Overall, no evidence of significant abdominal visceral pathology which would contraindicate anesthesia in this case.

IMAGING PERFORMED BY

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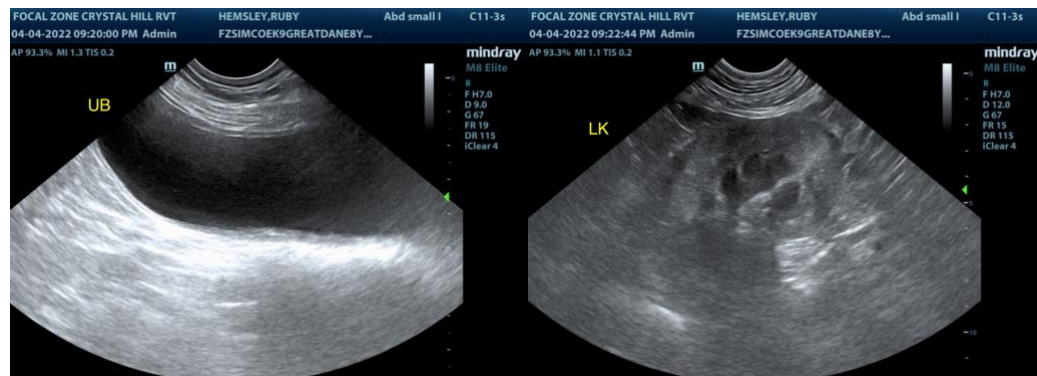
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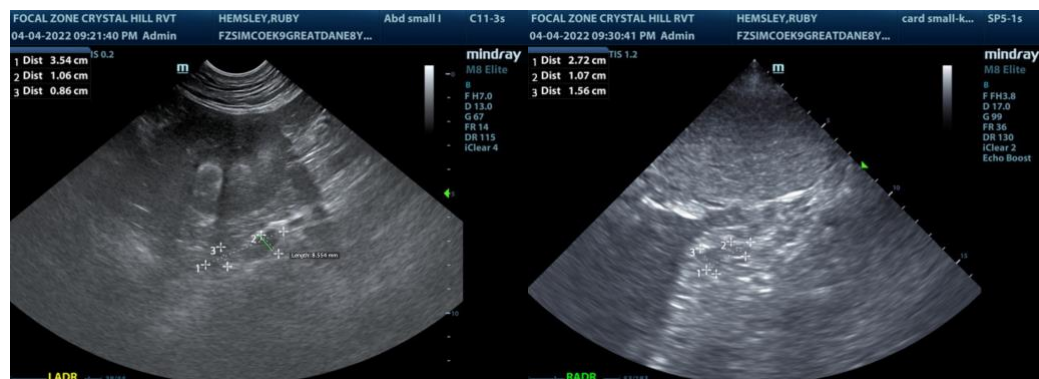
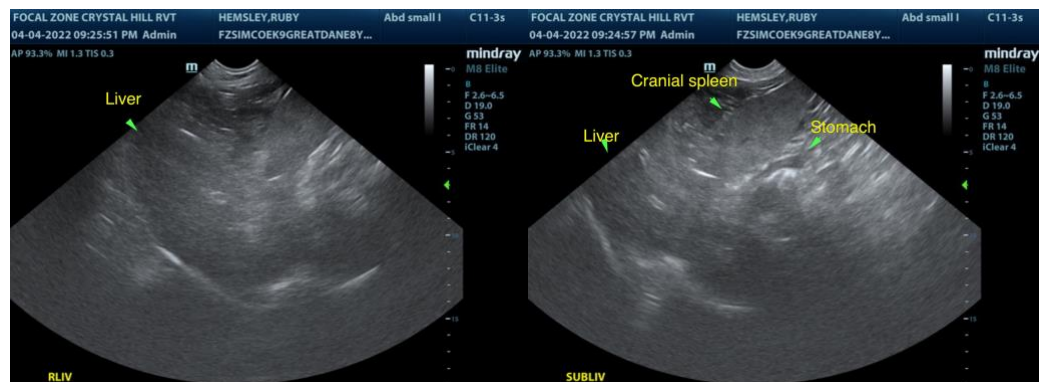
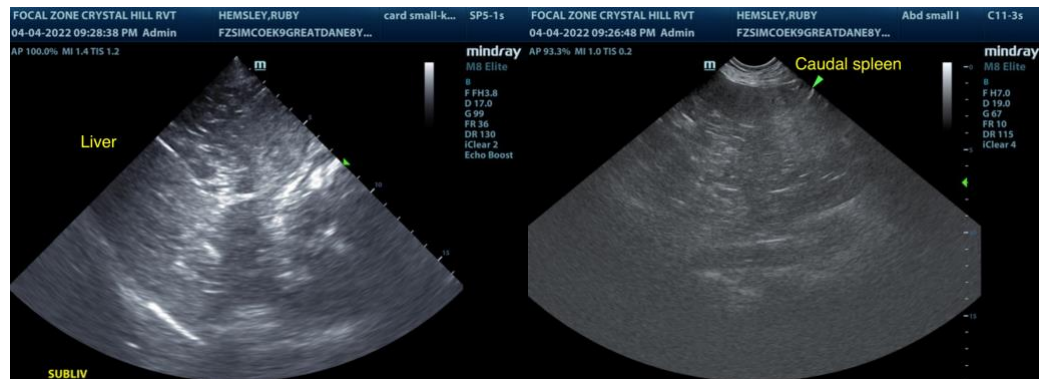
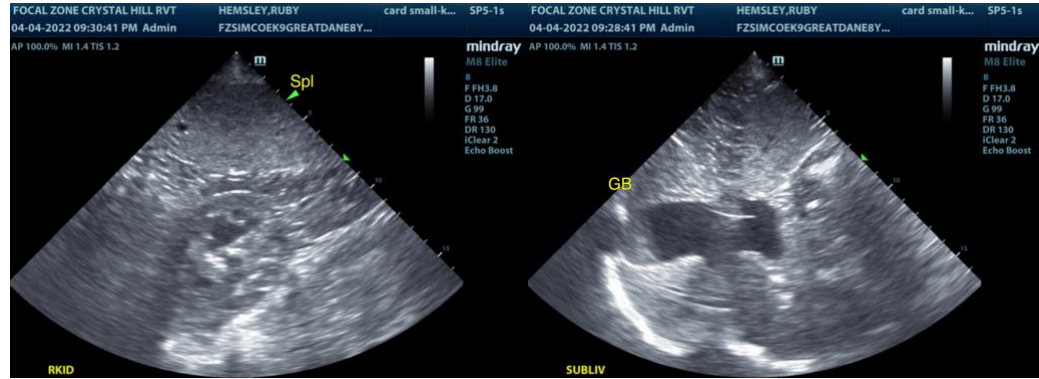
Dr Kennedy

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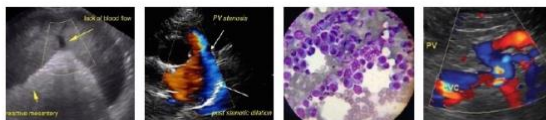
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The information and recommendations provided are based on the images presented by the



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referring veterinarian. 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