

PATIENT PRESENTING CLINICAL SIGNS

Roman Moran

History: Losing weight, no obvious masses palpable in abdomen. MM are a little tacky. O said he is not eating well despite what she feeds and he is vomiting bile. Lethargic. No rectal masses palpable. Omeprazole and Cerenia.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Please see attached radiographs and lab work. Hypercalcemia of concern.

BREED

Boxer X

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of – cm exhibited normal thickness and tone. A minor amount of potentially adhered luminal mineral was present. NO evidence of urinary bladder masses. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

SEX

Neutered Male

No overt pathology in the area of the residual prostate.

AGE

5 Years

Normal size and margination were present in the kidneys. 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 right kidney measured 6.0 cm in length.

WEIGHT

14.8 kg

Adrenal Glands

The left adrenal gland exhibited mild subjective subnormal size which is non-specific and likely a normal patient variant. The left adrenal gland measured 0.22 cm width at the caudal pole and 0.29 cm width at the cranial pole.

INTERPRETED BY

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

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.54 cm width at the caudal pole and 0.61 cm width at the cranial pole.

IMAGING PERFORMED BY

Crystal Hill

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.

HOSPITAL NAME

Snelgrove VS

REFERRING VET

Dr. Ioannou

Liver

The liver exhibited mild generalized enlargement, maintained symmetrical capsule contour and normal overall hepatic parenchyma echogenicity with moderate coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

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Gastrointestinal

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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach revealed minor retained echogenic non-shadowing chyme. The gastric body wall measured 0.37 cm.



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The visualized small intestine exhibited intact wall layering and maintained 1:3 muscularis/mucosa ratio. The jejunum wall measured 0.38 cm. No effusion present.

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

Boxer X

Free Abdomen

Several mildly enlarged to hypoechoic medial iliac lymph nodes in the area of the iliac trifurcation were present, an example measured 1.5 cm x 0.6 cm. Multifocal variably sized to swollen hypoechoic mid to cranial abdominal mesenteric to mesenteric root lymph nodes were present. The lymph nodes exhibited symmetrical to rounded margination with abnormal width: length ratio (>0.5). The enlarged lymph nodes were bordered by echogenic to reactive mesentery. The mesenteric root lymph nodes measured 4.1 cm x 2.9 cm.

SEX

Neutered Male

AGE

5 Years

ULTRASONOGRAPHIC FINDINGS

- Multifocal hypoechoic to swollen mid to cranial mesenteric lymphadenopathy with concurrent medial iliac lymphadenopathy- consistent with neoplastic criteria
- Mild hepatomegaly with coarse echotexture

WEIGHT

14.8 kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The primary finding of multifocal hypoechoic to swollen mesenteric and minor medial iliac lymphadenopathy consistent with neoplastic criteria, primary concern for lymphoma versus other neoplasia. The mild hepatomegaly was non-specific with considerations including benign hepatomegaly while the possibility of early hepatic involvement cannot be excluded. Assuming normal clotting status, mesenteric lymph node and hepatic FNA warranted for screening cytology, further clarification and staging. Oncology consult likely indicated pending cytology. 3 view chest radiographs recommended, if not done.

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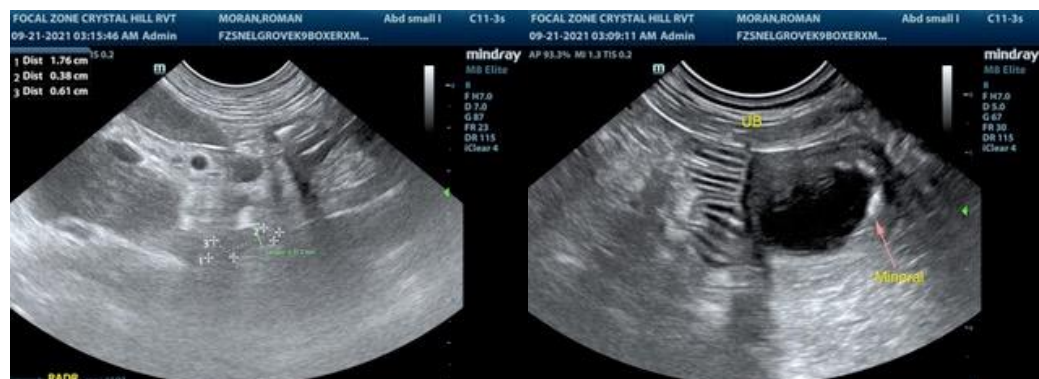
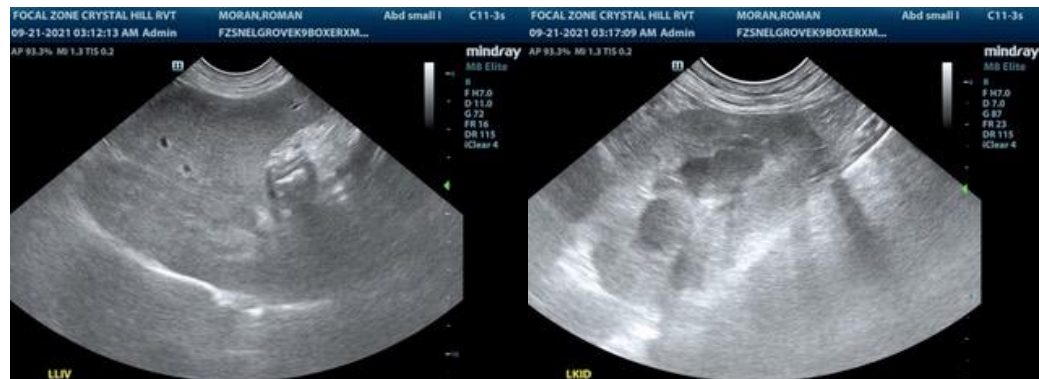
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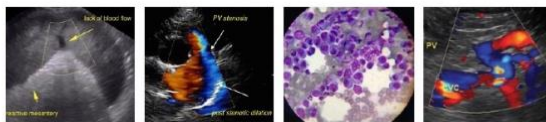
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



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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)
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