


PATIENT PRESENTING CLINICAL SIGNS

Zack Kcrease
 Losing weight, vomiting and diarrhea. Changes noted on bloodwork. Thought could palpate abdominal mass. Cryptorchid left testicle. Noticed submandibular lymph node enlargement during scan today.
 Abnormal PE/Chem/CBC/UA Results: Please see attached radiograph and bloodwork.

SPECIES

Canine

BREED

Chihuahua

SEX

Intact Male

AGE

4 Years

WEIGHT

2.4 kg

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with minor particulate urinary bladder sediment, likely indicative of minor cellular or crystalline debris. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

The prostate was enlarged in size with intact, symmetrical capsule contour. The margins of the gland were intact and able to be differentiated from the surrounding tissue. The prostatic parenchyma was mildly echogenic to heteroechoic without parenchymal mineralization.

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 2.8 cm. The right kidney measured 3.0 cm.

Adrenal Glands

The left adrenal gland was indistinctly visualized owing to regional periadrenal omental artifact and pathology. The left adrenal gland measured 1.2 cm length x 0.35 cm at the caudal pole. The right adrenal gland was not definitively visualized owing to regional periadrenal omental artifact and pathology.

Spleen

The spleen exhibited decreased parenchyma echogenicity. 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

The liver was subjectively normal in size, structure, and contour. Decreased parenchyma echogenicity noted. 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.

Gastrointestinal

The stomach presented wall thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. Mild gastric distension with primarily anechoic fluid was present. Gastric body wall measured 0.53 cm.

The small intestine presented primarily intact wall layering with maintained 1:3 muscularis/mucosa ratio. Mid abdominal unspecified segment of thickened small intestine versus colon noted, measuring approximately 2.0 cm in length with wall width up to 0.4 cm. Normal appearing small intestine measured 0.22 cm wall width. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

INTERPRETED BY

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

IMAGING PERFORMED BY

Crystal Hill

HOSPITAL NAME

Preston AC

REFERRING VET

Dr. Coghlan

INVOICE

34947

DATE

1/20/22



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The colon walls presented intact yet prominent wall layering with mild thickened to echogenic submucosa. Nonformed to liquid fecal matter was present in the colon lumen with lumen dilation.

Pancreas

SPECIES

Canine

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

Free Abdomen

BREED

Chihuahua

Both testicles, including the cryptorchid left testicle, were normal in appearance.

SEX

Intact Male

Multifocal variably size mesenteric and medial iliac lymph nodes were present. Example of mesenteric root lymph node measured 2.7 cm x 1.8 cm. Example of medial iliac lymph node measured 1.2 cm x 1.0 cm. These lymph nodes were homogenous, mildly hypoechoic and smoothly marginated. A normal width: length ratio was maintained (<0.5). Evidence of perilymphatic inflammation was evident.

Generalized reactive mesentery noted and mild peritoneal free fluid.

AGE

4 Years

ULTRASONOGRAPHIC FINDINGS

WEIGHT

2.4 kg

- Multicentric hypoechoic to swollen mesenteric and medial iliac lymphadenopathy
- Reduced hepatosplenic echogenicity
- Gastritis with segmental thickened small bowel versus colon
- Generalized reactive mesentery and mild peritoneal free fluid

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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DVM, DABVP
(Canine and Feline)

Although sampling is required for further clarification and potential definitive diagnosis, multicentric round cell neoplasia with primary concern for multicentric lymphoma is the primary differential diagnosis in this case. Possible non-neoplastic infectious or inflammatory etiology possible, yet considered less likely.

IMAGING PERFORMED BY

Crystal Hill

Assuming normal clotting status, ultrasound guided FNA of an enlarged mesenteric lymph node and hepatosplenic FNA using 25-gauge needle for cytology and potential oncology consult recommended. Culture and sensitivity may be indicated pending cytology. If not done, 3-view chest radiographs are recommended. Very guarded prognosis pending cytology. Empirically, continued as needed gastrointestinal support is recommended.

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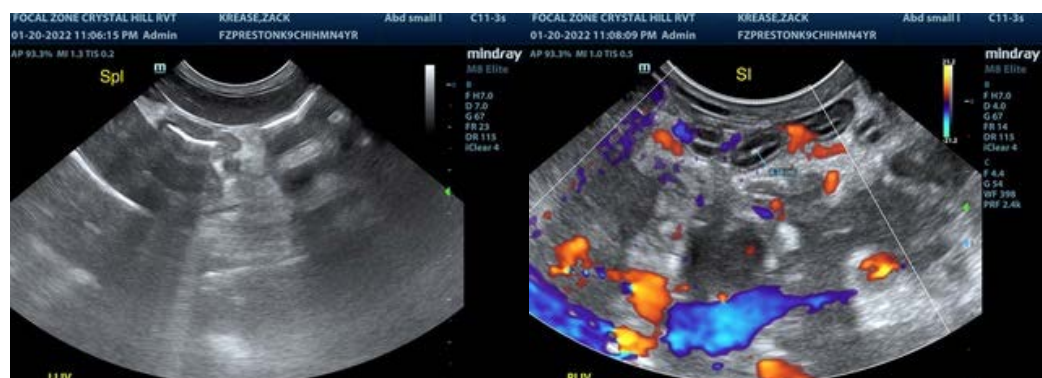
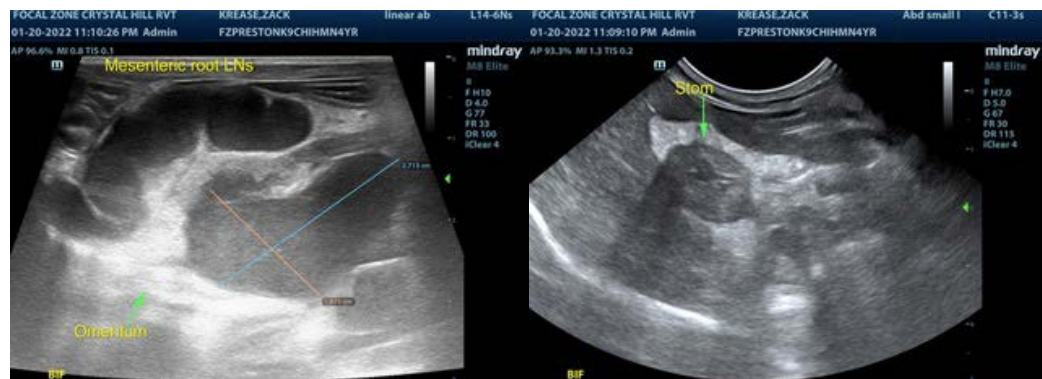
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

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.

BREED

Chihuahua

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

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