IMAGING PERFORMED BY

SVS Mobile Imaging KC 816 - 401 - 5010

svsimagingkc@gmail.com

SonoPath

Clinical Sonography & Telecytology

EDUCATIONAL TELECONSULTATION SERVICES™

1-800-836-4266 info@sonopath.com SonoPath.com

PATIENT

Leo Ritchie

SPECIES

Feline

BREED

DLH

SEX

MN

AGE

12 years

WEIGHT

17 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Rachel Runnells, RVT

HOSPITAL NAME

SVS Imaging KC

REFERRING VET

Dr. Jennifer Kissinger

INVOICE

13373

DATE

2/16/22

PRESENTING CLINICAL SIGNS

Had not passed stool for a few days, decreased appetite, lethargic.
Abnormal PE/Chem/CBC/UA Results: PE: BAR, BCS 8/9 difficult to palpate abdomen d/t size. Abdominal radiograph showed formed stool in distal colon, otherwise unremarkable. CBC: unremarkable Chemistry: ALT 201 (27 - 158 U/L), ALP 85 (12 - 59 U/L) UA: unremarkable.

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. Primarily anechoic urine was present in the lumen. Mild to moderate, nondependent, particulate sediment was present without evidence of calculus formation. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.

The area of the aortic trifurcation was free of pathology.

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 loss of corticomedullary symmetry and definition expected for the age of the patient. Both kidneys exhibited mild uniform increased cortex echogenicity with focal areas of minor medullary mineral. No evidence of pelvic dilation was present. The left kidney measured 4.8 cm in length. The right kidney measured 4.2 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.46 cm width. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.39 cm width.

Spleen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild splenic parenchyma heterogeneity was present without evidence of nodular changes. The spleen exhibited mild asymmetrical medial capsule contour. 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. The spleen was normal in size measured 0.98 cm width at the level of the hilus.

Liver/ Gallbladder

The liver presented mildly enlarged in size. 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 primarily anechoic luminal content. The proximal common bile duct was dilated and tortuous without overt post hepatic obstruction.

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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. The gastric body wall width measured 0.25 cm.

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. The jejunum wall width measured 0.22 cm.

The colon was overtly normal without evidence of distention or signs of constipation.

Pancreas

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

Solitary to potential regional midabdominal mesenteric lymph nodes were present. 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. An example of lymph node size was 0.59 cm width. No effusion was present.

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Urinary bladder sediment
- Age-related renal changes with minor pinpoint medullary mineral
- Nonspecific splenic parenchyma heterogeneity
- Hepatopathy - suspect low-grade inflammatory hepatopathy i.e., cholangiohepatitis, given the ALT elevation
- Suspect midabdominal mesenteric lymphadenitis - potentially secondary to inflammatory bowel episode

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The spleen is nonspecific likely indicative of benign or age-related parenchymal changes.

If evidence of weight loss and assuming normal clotting status, hepatosplenic FNA could be considered for screening cytology, as well as a GI panel to include PLI/TLI/Cobalamin/Folate. Potential for low-grade to chronic pancreatitis may be present yet sonographically normal.

Supportive care for suspect low-grade inflammatory hepatopathy and potential inflammatory bowel episode would be reasonable.

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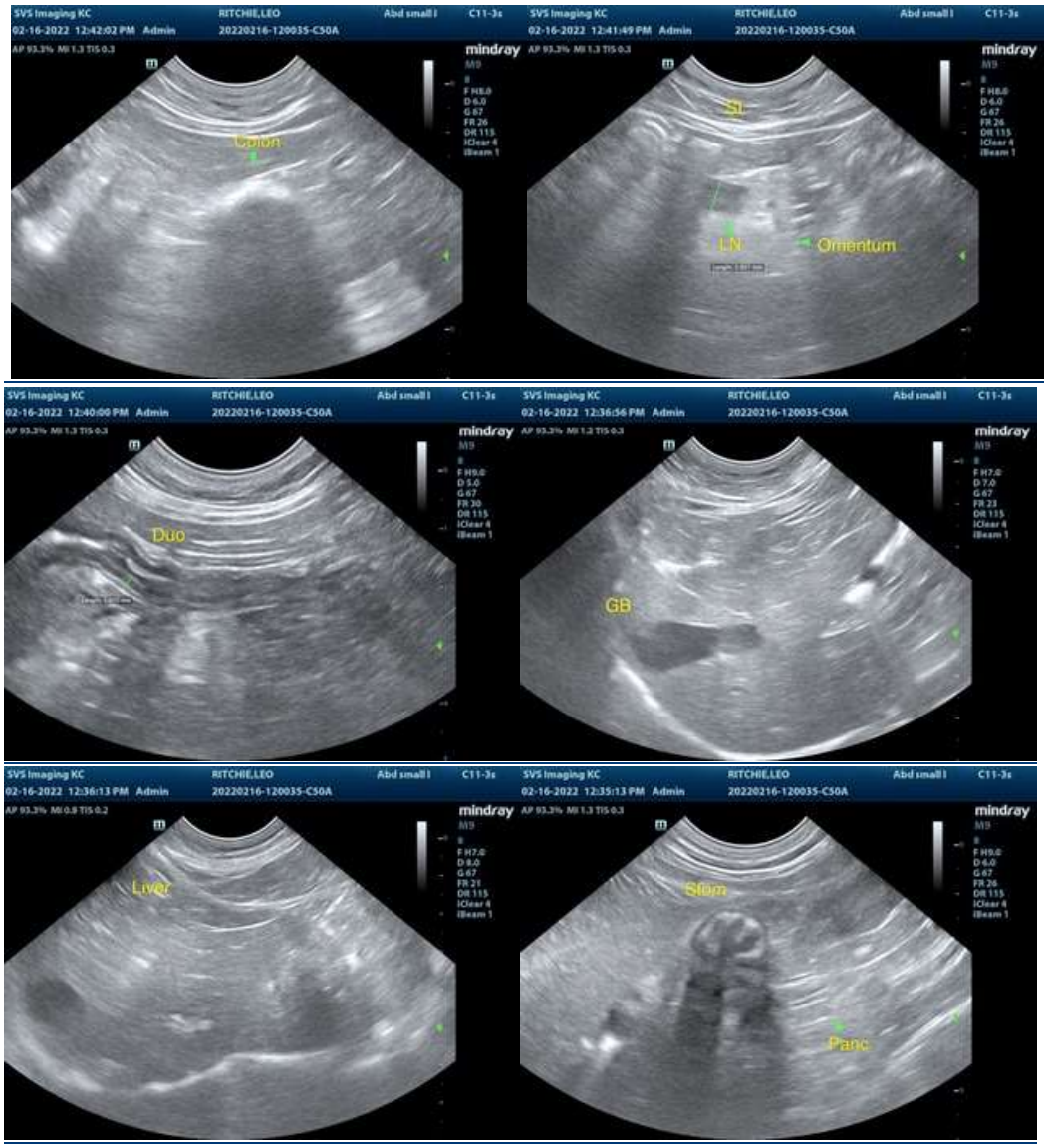

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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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