



PATIENT

Penny McKenzie

SPECIES

Canine

BREED

Rat Terrier

SEX

F/S

AGE

10 years

WEIGHT

15 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Pleasant Hill AH

REFERRING VET

Dr. Larsen

INVOICE

16430

DATE

3/22/23

PRESENTING CLINICAL SIGNS

Painful abdomen, periodic vomiting - both of which have improved on cerenia and a couple days of analgesics but then returned on Sunday. Blood work is normal

Abnormal PE/Chem/CBC/UA Results: Normal lab work Current Medications Cerenia (16mg sid)
Radiographic Findings None

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 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.

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 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 4.3 cm in length. The right kidney measured 5.0 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 2.1 cm length x 0.51 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 2.0 cm length x 0.65 cm width at the caudal pole.

Spleen

The spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Focal to several, perihilar, nondisruptive, hyperechoic nodules were present throughout the cranial to caudal parenchyma. An example measured approximately 0.5 cm in diameter. 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 or neoplastic changes were not noted. The hyperechoic nodules tend to trend benign and are most consistent with benign hyperplasia or myelolipomas.

Liver/ Gallbladder

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. The gallbladder was non-distended in size with



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mild congealed hyperechoic gallbladder debris. No evidence of gallbladder inflammatory criteria was noted. The cystic and common bile ducts were normal.

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Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild, variably echogenic, nonshadowing ingesta without signs of obstruction or foreign material. No evidence of mechanical pyloric outflow obstruction was noted.

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. Focal to intermittent nonspecific mild hyperechoic duodenojejunal mucosal speckling was noted. No obstructive pattern was noted.

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

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 were evident.

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

- Sonographically normal gastrointestinal tract exhibiting mild gastric ingesta and nonspecific focal duodenojejunal mucosal speckling
- Normal pancreas
- Minor congealed gallbladder debris (non-mucocele)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Sonographically, no evidence of significant visceral pathology as a definitive cause of reported abdominal pain and periodic vomiting.

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The focal duodenojejunal mucosal speckling is nonspecific yet may potentially indicate low-grade inflammatory gastrointestinal disease. A Spec cPL is warranted to assess for evidence of low-grade to chronic pancreatitis, which may present as sonographically normal. A thorough muscular/skeletal examination, if not done, is recommended to assess for or rule out referred muscular/skeletal discomfort.

Empirically, as-needed gastrointestinal supportive care, which may include a bland novel protein or hydrolyzed diet, as-needed gastroprotectants, and assessment of gastrointestinal response, if continued intermittent to progressive vomiting, is suggested.



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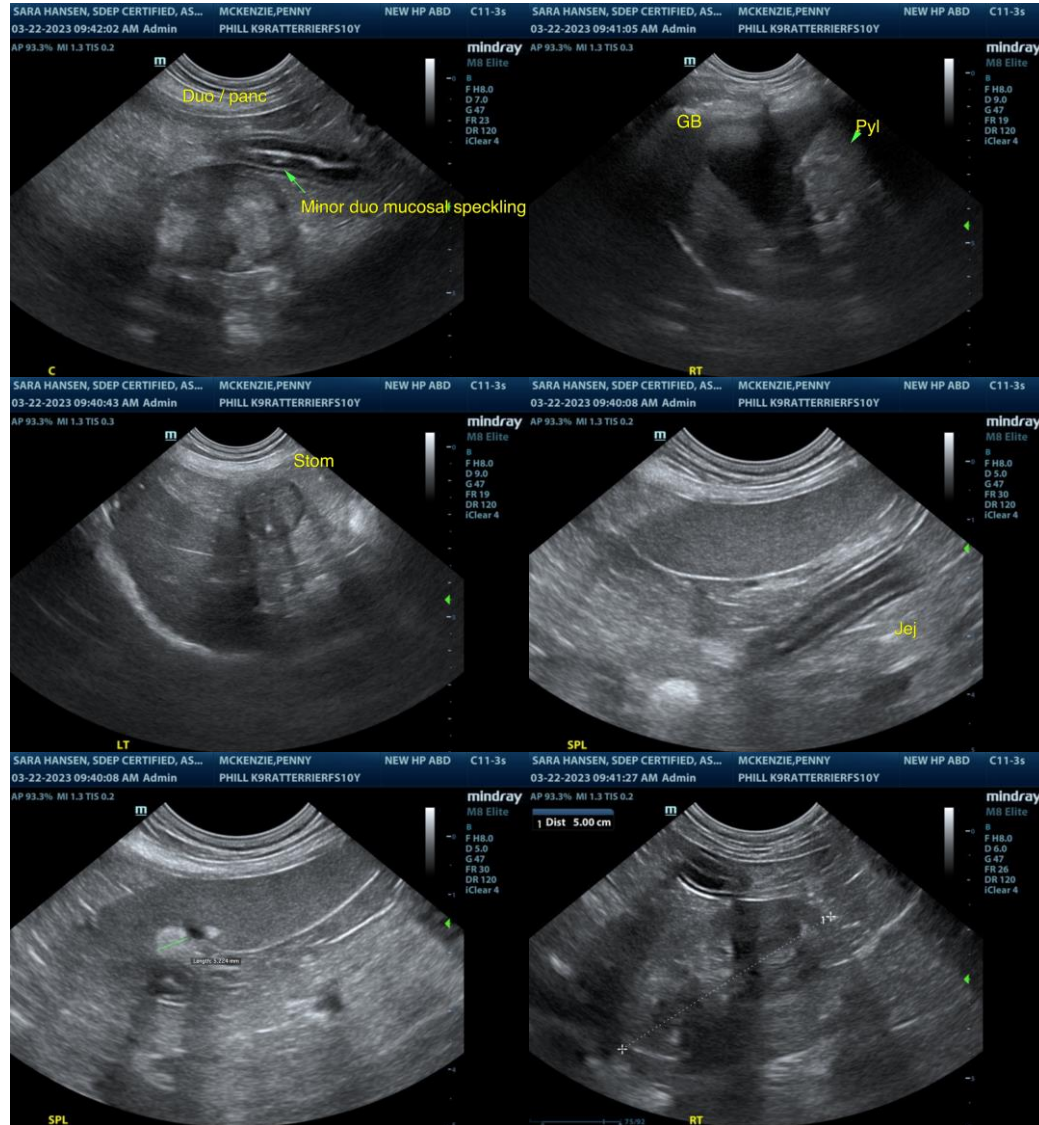
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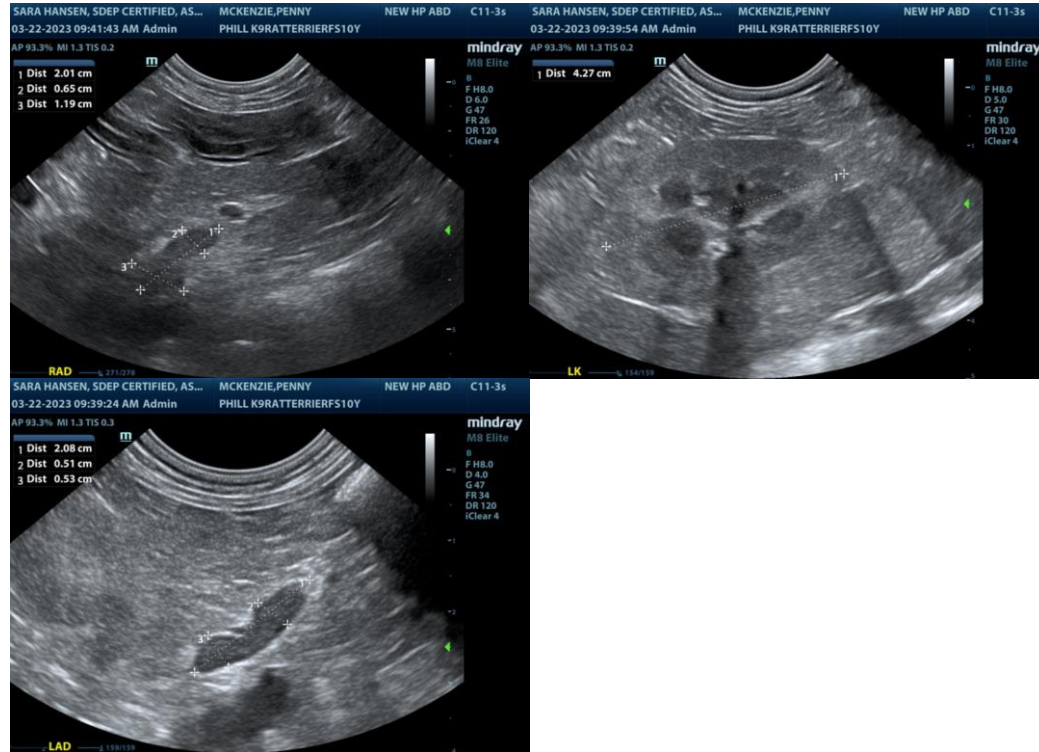
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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