



PATIENT

Olivia Muniz

SPECIES

Canine

BREED

Maltese

SEX

Spayed Female

AGE

9 Years

WEIGHT

6.8 pounds

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP

IMAGING PERFORMED BY

Dr. Gabriel Ferrer
DVM

HOSPITAL NAME

Pulse Pet Ultrasound
Services

REFERRING VET

Dr. Javier Rodriguez

INVOICE

12243

DATE

11/13/25

PRESENTING CLINICAL SIGNS

Presented as a referral for an abdominal ultrasound to evaluate weight loss, vomiting and diarrhea. Pt has a 2 weeks history of bloody diarrhea, vomiting and pt has lost moderate amount of weight.

Abnormal PE/Chem/CBC/UA Results: Pe: BCS 3/9 very weak Bloodwork and radiographs attached as supporting documents.

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 change were noted.

Normal size and margination was 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. A medial cyst was visualized in the right kidney measuring 0.80 cm in diameter. The left kidney measured 4.2 cm in length. The right kidney measured 4.0 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 0.50 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 0.39 cm width at the caudal pole.

Spleen

The spleen presented with normal size, minor asymmetrical capsule contour and mild nonhomogenous hypoechoic parenchyma. 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.

Liver

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 mild nonorganized bile sediment. The gallbladder wall was mild to moderately thickened in appearance consisting of an echogenic double rim corresponding to the inner and outer portions of the wall. The gallbladder wall measured 0.28 cm wall width. This is consistent with gallbladder wall edema. Possible causes may include acute inflammation, edema and anaphylaxis. The common bile duct was not visualized.

Gastrointestinal



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The stomach presented wall mild to moderate thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. Mild to moderate retained anechoic fluid was present without overt obstruction to pyloric outflow. Pylorus wall measured 0.50 cm wall width.

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Diffusely thickened intestine with overall intact to altered wall layer ratio. Segmental jejunal corrugation and nonobstructive ileus. The duodenum wall measured 0.43 cm width. The jejunum wall measured 0.38 cm width.

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Thickened intact colon wall. The colon was nondistended with nonformed fecal matter.

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The pancreas presented with mildly prominent size exhibiting mild nonhomogenous hypoechoic parenchyma.

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Intermittent 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 2.5 cm x 0.67 cm. Generalized mild hyperechoic omentum. No visualized significant peritoneal effusion.

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6.8 pounds

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Severe diffuse gastroenterocolonopathy exhibiting hypomotile stomach, thickened to altered intestinal wall layer ratio, segmental corrugation, nonobstructive intestinal ileus and nonformed fecal matter in colon.
- Possible concurrent mild pancreatitis.
- Mild edematous gallbladder with nonorganized bile debris (non-mucocele).
- Mildly enlarged nonhomogenous irregular mesenteric lymph nodes and generalized omental hyperechogenicity.
- Mild nonhomogenous hypoechoic spleen.

Secondary Findings

- Age-related kidneys with right kidney cyst.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Severe IBD, infectious disease, protein losing enteropathy or primary concern for gastrointestinal neoplastic criteria with potential associated mesenteric lymphadenitis or metastatic lymphadenopathy are all potentials. Possible multicentric to emerging round cell neoplastic process i.e. lymphoma is not excluded.

Further assessment may include (assuming normal clotting status) accessible lymph node and screening hepatosplenic FNA cytology. A definitive diagnosis would likely require intestinal biopsies for histopathology yet contraindicated if albumin level is less than 2.0. A GI panel to include PLI, TLI, cobalamin and folate is recommended. Gastrointestinal support, empirical therapy for protein losing enteropathy with stabilization of albumin levels with close clinical and as needed sonographic monitoring would be reasonable. A guarded prognosis is indicated.

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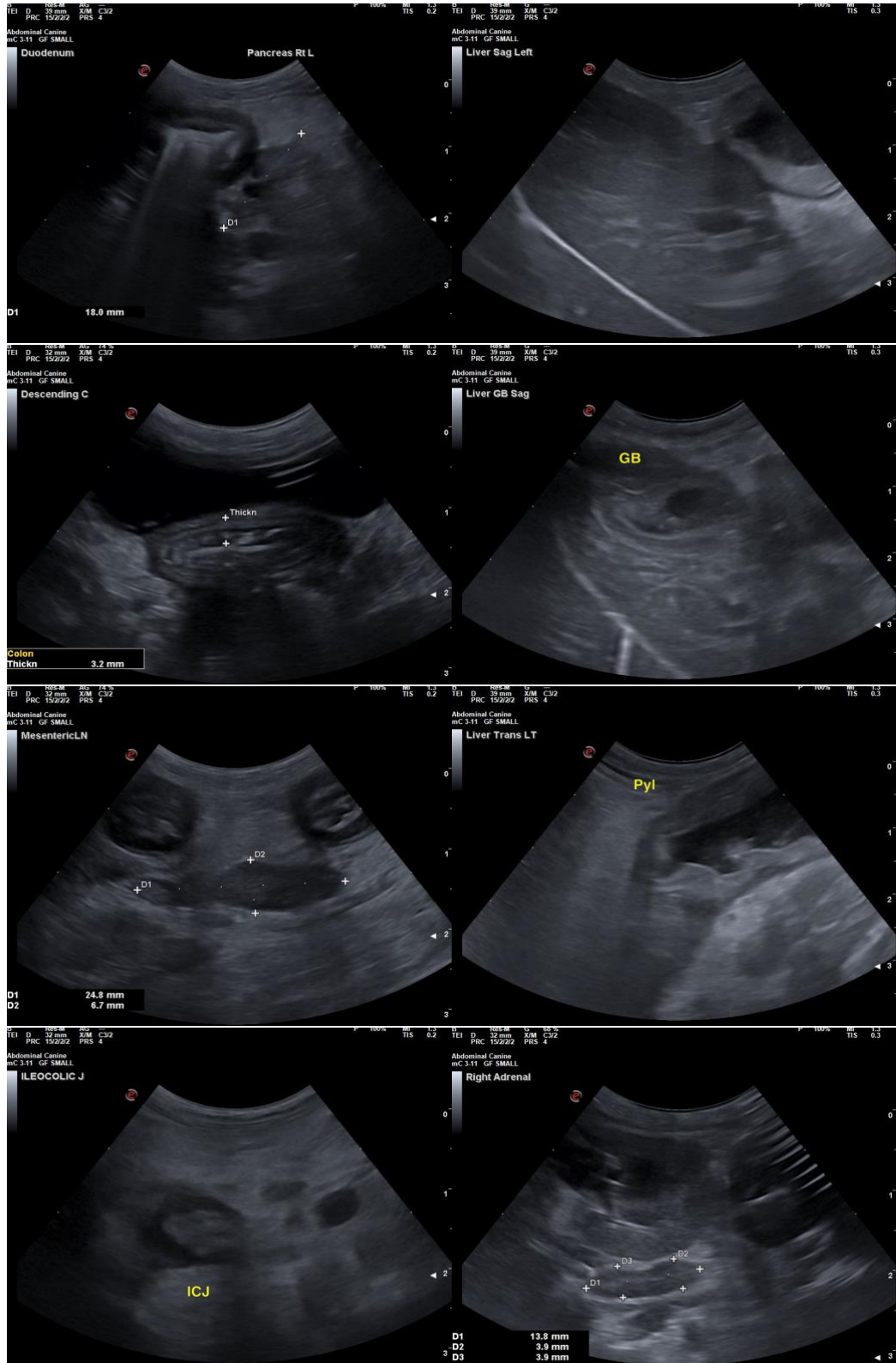
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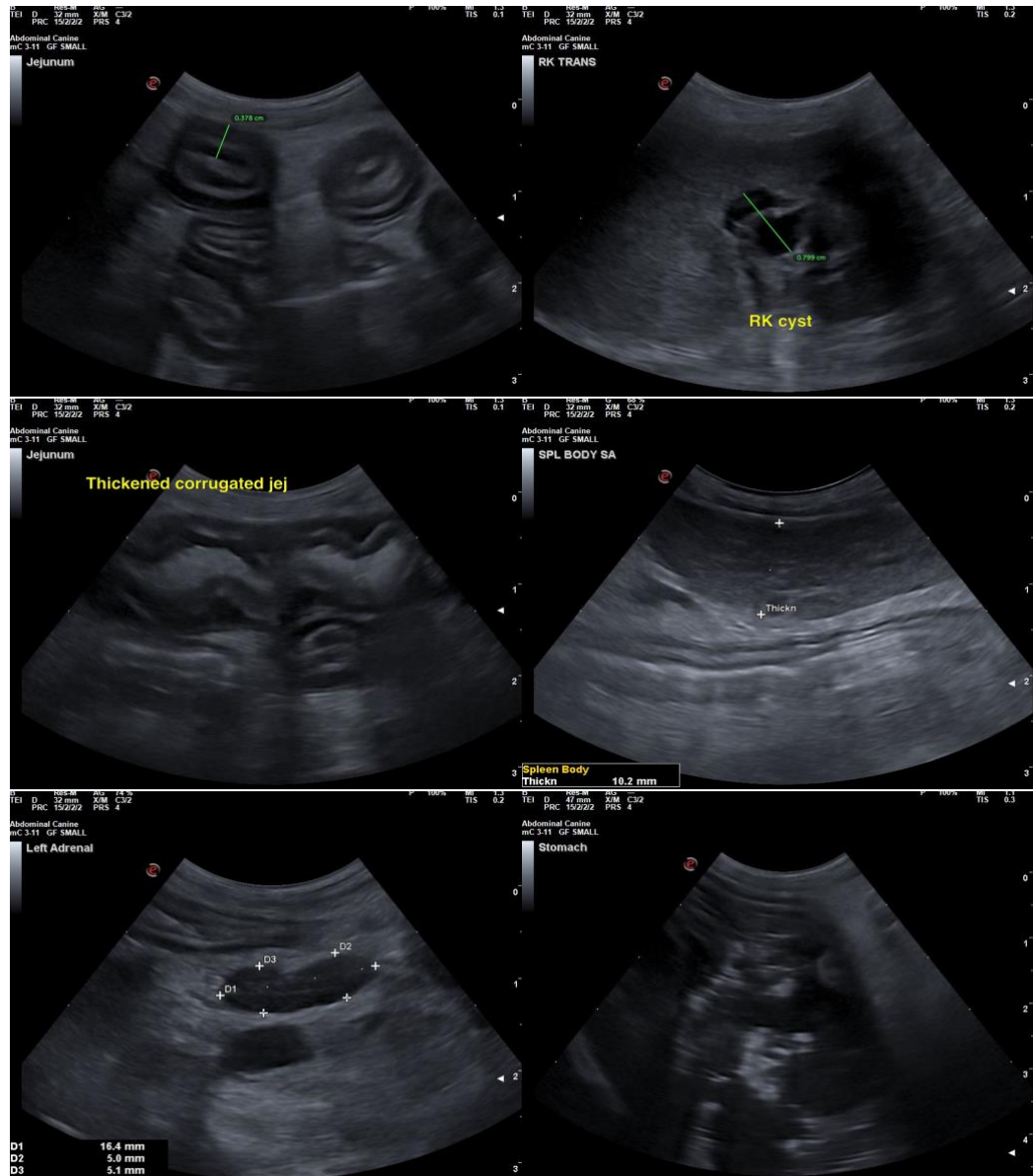
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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