



PATIENT

Luna Jardim

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

AGE

5yr

WEIGHT

7.42kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Sarah Barthelemy

HOSPITAL NAME

Alpine 24 Hour Pet
Hospital

REFERRING VET

Dr. Nielsen

INVOICE

12679ag

DATE

1/11/2023

PRESENTING CLINICAL SIGNS

Chronic hx of constipation issues which has been well managed with lactulose, fiber diet and restoralax. Recently was given very outdated opened bag of kibble (sudden diet change) and then had onset of vomiting and diarrhea. Concern of melena on one of rectal exams which now has turned into bloody diarrhea. Echo requested for baseline. No heart murmur or cardiovascular symptoms.

Abnormal PE/Chem/CBC/UA Results: Hemoconcentration, pre-renal azotemia, mild phosphorus elevation. Mild ALT elevation.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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 were noted.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and mildly indistinct corticomedullary definition were maintained with subtle increased medullary echogenicity including discrete pinpoint medullary mineral. No pyelectasia was present. The left kidney measured 4.0 cm in length. The right kidney measured 4.4 cm in length.

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.47 cm width at the caudal pole and 0.54 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.34 cm width at the caudal pole and 0.33 cm width at the cranial pole.

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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/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 thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

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 small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Minor non-specific segmental duodenojejunal mucosal speckling was present. The lumen of the small intestine



PATIENT

Luna Jardim

was empty with no signs of ileus, obstruction or foreign material. The duodenum wall measured 0.46 cm width. The jejunum wall measured 0.30 cm width.

SPECIES

Canine

The colon walls presented intact yet moderately prominent wall layering with moderately thickened to echogenic submucosa in the area of the descending colon and colorectum. Nonformed to liquid fecal matter was present in the colon lumen with lumen dilation. The descending colon wall measured 0.54 cm in width.

Pancreas

BREED

Shih Tzu

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.

SEX

FS

Free Abdomen

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

AGE

5yr

ULTRASONOGRAPHIC FINDINGS

- Moderate colitis pattern-potential for moderate chronic colitis
- Sonographically unremarkable stomach/small bowel-suspect resolving acute gastroenteritis/inflammatory bowel episode
- Subjective bilateral mild increased renal medullary echogenicity with discrete pinpoint medullary mineralization
- Low-grade reactive to possible inflammatory hepatopathy

WEIGHT

7.42kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

Empirical therapy for acute on chronic colitis which may include dietary therapy, fiber supplementation +/- antibiotic protocol with assessment of clinical response and potential sonographic monitoring of the colon is recommended. Assessment of serum cobalamin and folate levels suggested if recurrent/progressive GI signs are present. Endoscopy may be indicated if recurrent GI signs despite conservative colitis therapy.

IMAGING PERFORMED BY

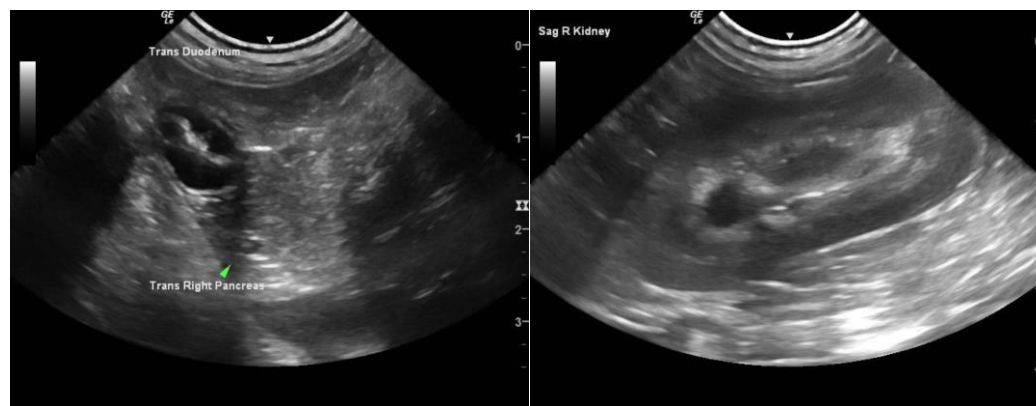
Dr. Sarah Barthelemy

HOSPITAL NAME

Alpine 24 Hour Pet
Hospital

REFERRING VET

Dr. Nielsen



INVOICE

12679ag

DATE

1/11/2023



PATIENT

Luna Jardim

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

AGE

5yr

WEIGHT

7.42kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Sarah Barthelemy

HOSPITAL NAME

Alpine 24 Hour Pet
Hospital

REFERRING VET

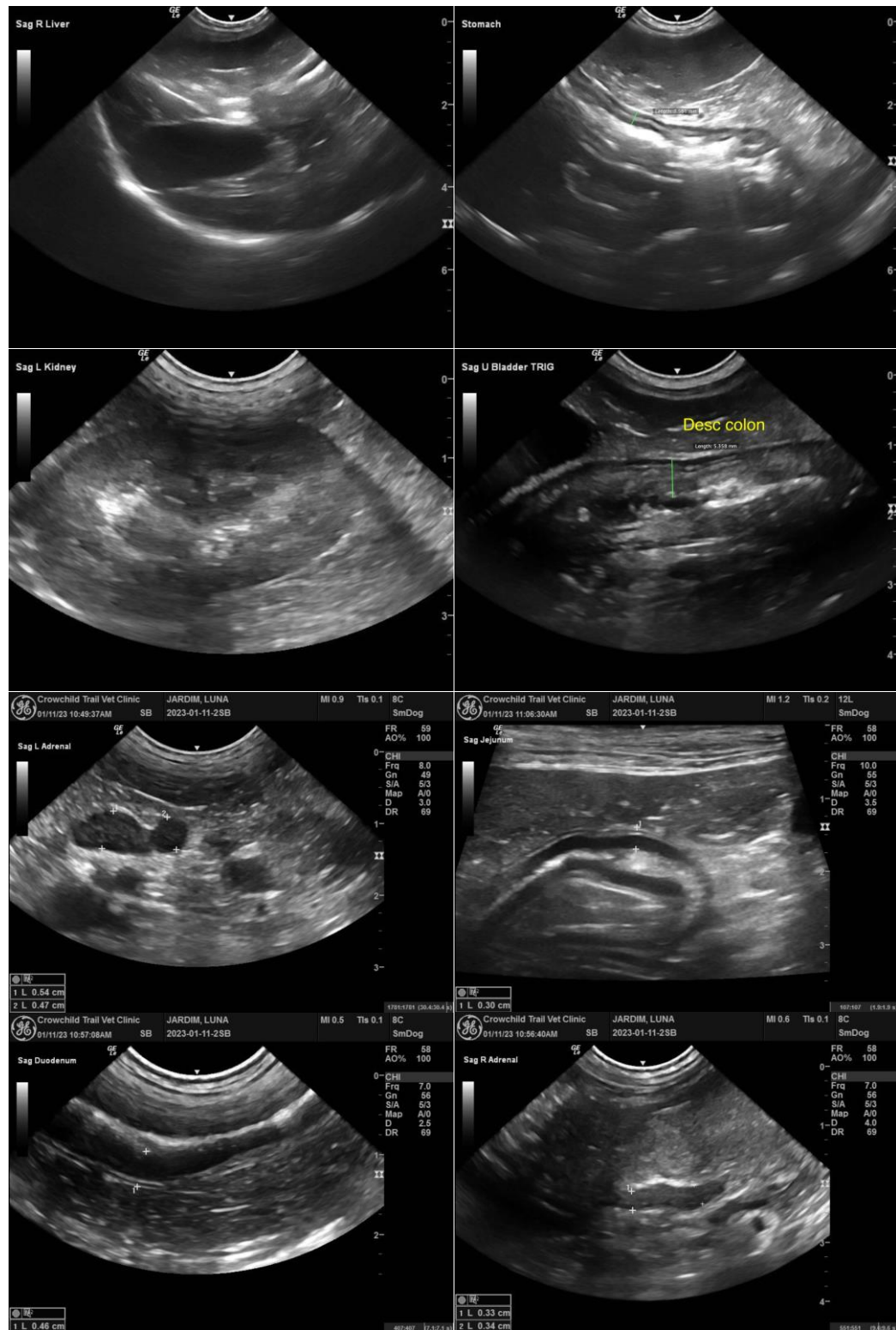
Dr. Nielsen

INVOICE

12679ag

DATE

1/11/2023



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.



PATIENT

Luna Jardim

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.

SPECIES

Canine

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)

mac.daniel@sonopath.com

BREED

Shih Tzu

SEX

FS

AGE

5yr

WEIGHT

7.42kg

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Dr. Sarah Barthelemy

HOSPITAL NAME

Alpine 24 Hour Pet
Hospital

REFERRING VET

Dr. Nielsen

INVOICE

12679ag

DATE

1/11/2023