



PATIENT

Henry Monahan

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered Male

AGE

~4+ Years

WEIGHT

8.5 Ponds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Midland Park VH

REFERRING VET

Dr. John Shokoff

INVOICE

39820

DATE

7/26/22

PRESENTING CLINICAL SIGNS

Adopted on 6/22/2022 with reported age of 9-10 months old, however his overall condition and dental tartar suggest age of at least 2 years if not 3-5 years old. Patient had diarrhea at the time of his first visit in 7/22 and tested positive for Giardia, though diarrhea has not improved with clearance of the parasite. Ultrasound sought to evaluate further for potential cause of ongoing diarrhea and for elevated ALT. Abnormal PE/Chem/CBC/UA Results: ALT 182, BUN:CRP 36, (normal BUN and creat.), phosphorous 6.6, chol. 344, lymphocytes 4620, T4 0.7.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 3.7 cm. The left kidney measured 3.46 cm.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 1.35 cm x 1.05 cm at the cranial pole and 0.32 cm at the caudal pole. The left adrenal gland measured 1.41 cm x 0.46 cm at the caudal pole and 0.44 cm at the cranial pole.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

Liver

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

Portal vein to vena cava ratio was 1:1, 5.0 mm each.

Gastrointestinal

A minor amount of non-shadowing, non-obstructive ingesta was noted in the **stomach**. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No



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evidence of pathology. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted. Soft stool noted in the colon.

Pancreas

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The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

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Shih Tzu

PRIMARY FINDINGS

- Non-specific gastrointestinal irritation pattern/irritable bowel – occult parasitism, food intolerance, dietary indiscretion all possible.

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SECONDARY FINDINGS

- Gastric ingesta

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~4+ Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

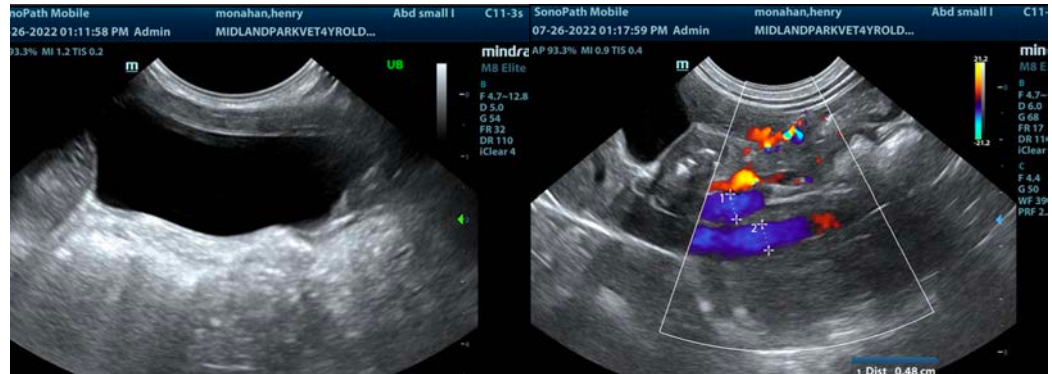
A clinical trial of Enrofloxacin/Metronidazole over a 10 day period, treatment for enterotoxins, broad-spectrum anti-parasitic protocol, and treatment for Giardia all indicated. Hydrolyzed diet may be in this patient's best interest. Baseline cortisol would be ideal to rule out occult Addison's, even though the adrenals appear normal. The liver is likely reactive hepatopathy, as structurally it was unremarkable.

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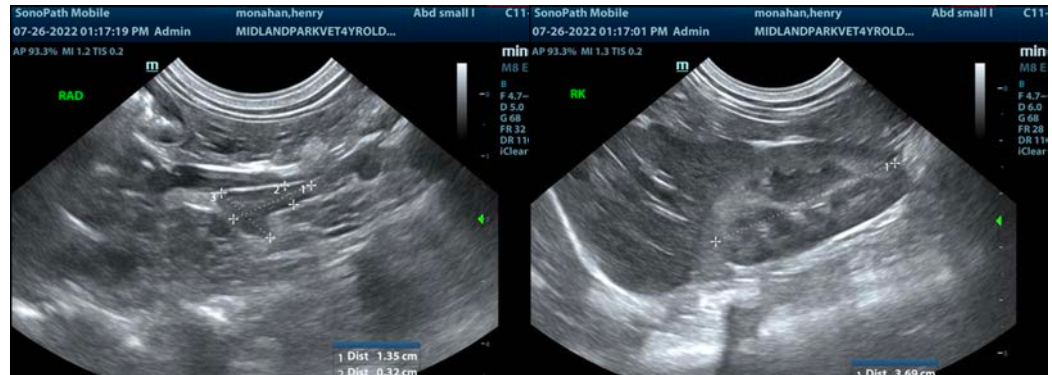


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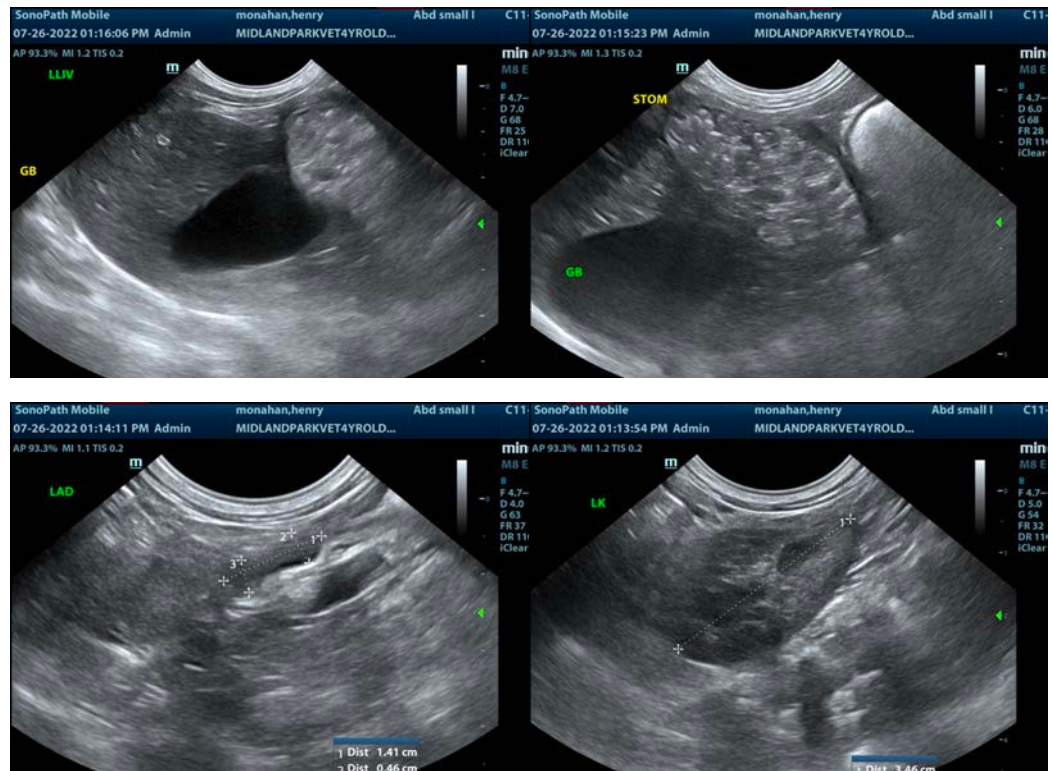
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

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