

PATIENT

Lula Montanez

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

4 Years

WEIGHT

16 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert IVUSS

**IMAGING
PERFORMED BY**

Denise Bruno, LVT,
RDMS

HOSPITAL NAME

Ideal Pet Vet Clinic

REFERRING VET

Dr. Kolta

INVOICE

92675

DATE

10/26/21

PRESENTING CLINICAL SIGNS

History: Elevated liver enzymes

Labs attached

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 was 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 4.46 cm. The left kidney measured 4.1 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 2.01 x 0.48 cm at the caudal pole and 0.35 cm at the cranial pole. The left adrenal gland measured 2.01 x 0.54 cm at the caudal pole and 0.56 cm at the cranial pole.

Spleen

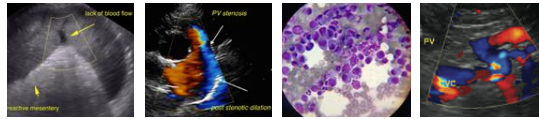
The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or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

Liver

The **liver** was largely unremarkable with minor, hypoechoic, heterogenous changes in the left limb. The gallbladder and common bile duct were unremarkable.

Gastrointestinal

The gastrointestinal tract revealed minor increased submucosal echogenicity and mucosal speckling. The lumen was unremarkable with no evidence of overt loss of mural detail or luminal disease was



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noted. However, inflammatory bowel is likely. The albumin levels should be monitored to assess for potential emerging protein losing enteropathy.

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Pancreas

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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ULTRASONOGRAPHIC FINDINGS

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Undefined, heterogenous left liver changes with possible supportive lesions.

Otherwise, acute inflammatory hepatopathy.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Leptospirosis titers are indicated. FNA of the general hepatic parenchyma and hypoechoic nodules with cytology and culture would be ideal. Ampicillin and Metronidazole combination as well as liver support protocol is indicated.

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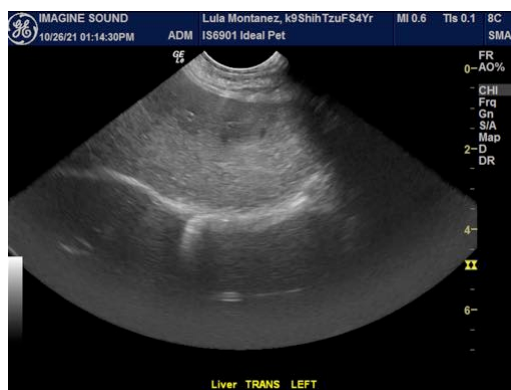
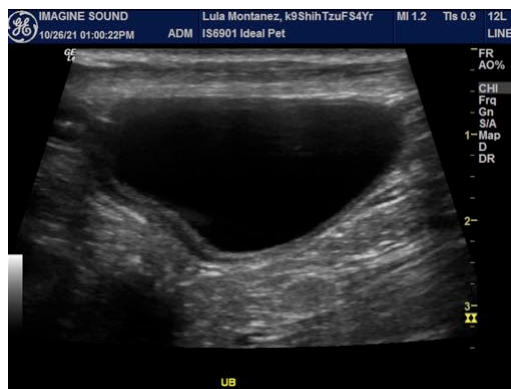
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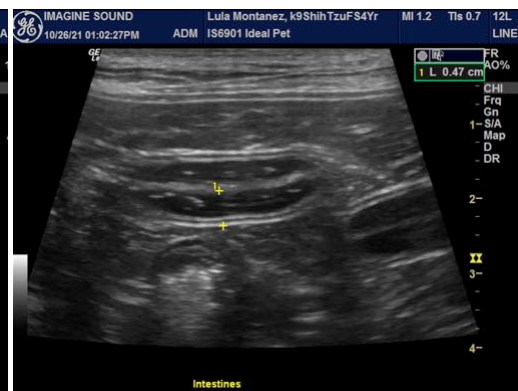
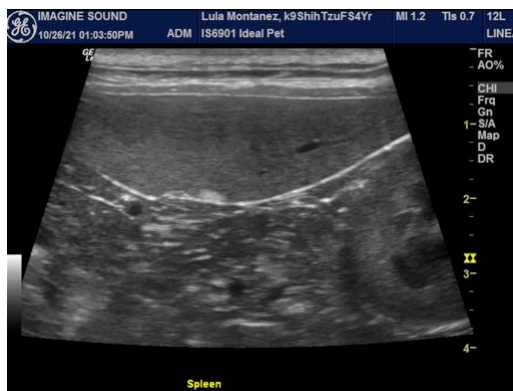
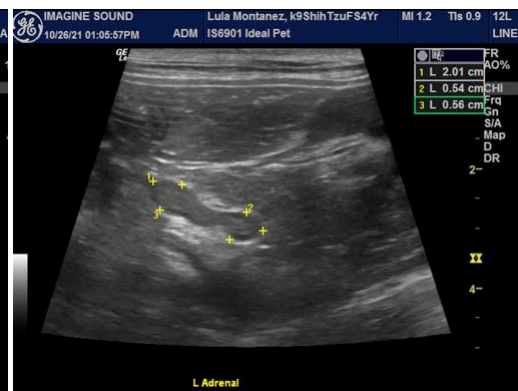
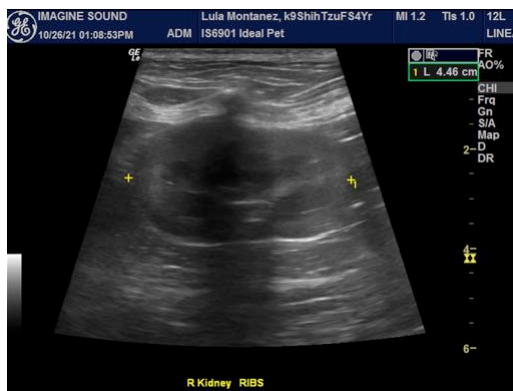
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
Eric.Lindquist@SonoPath.com