



PATIENT PRESENTING CLINICAL SIGNS

Chico Genera History: Possible liver shunt with seizures

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED 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.

Shih Tzu

The prostate was uniform and measured 1.0 cm.

SEX

Male

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 4.01 cm. The left kidney measured 3.63 cm.

AGE

5 months

WEIGHT

6.9 lbs

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 left adrenal gland measured 1.24 x 0.26 cm at the caudal pole and 0.24 cm at the cranial pole. The right adrenal gland measured 0.5 cm at the cranial pole and 0.4 cm at the caudal pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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.

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Animal Paradise
Hospital

Liver

The **liver** was slightly subnormal in size; however, the portal vein to vena cava ratio was 1:1. There was no evidence of intrahepatic or extrahepatic shunting. However, portal hypoplasia/microvascular dysplasia cannot be ruled out and would necessitate a liver biopsy if bile acids are elevated. 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.

REFERRING VET

Dr. ElShafie

INVOICE

96834

DATE

3/14/22



PATIENT

Gastrointestinal

Chico Genera

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

SPECIES

Canine

BREED

Shih Tzu

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.

SEX

Male

ULTRASONOGRAPHIC FINDINGS

Mild microhepatica.

AGE

5 months

Otherwise, normal abdomen.

WEIGHT

6.9 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no evidence of macroscopic shunting. MRI of the CNS or CT with contrast is recommended given the patient's history. If the bile acids are elevated then medical management is recommended +/- liver biopsy. However, structurally the abdomen is unremarkable other than minor microhepatica.

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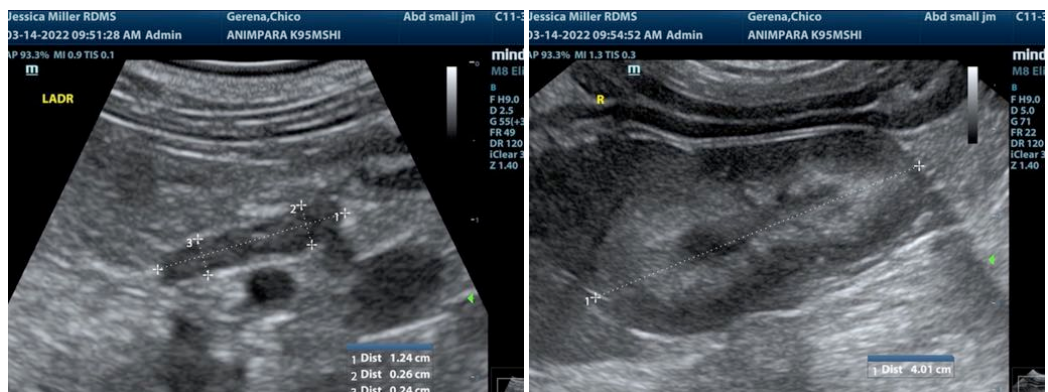
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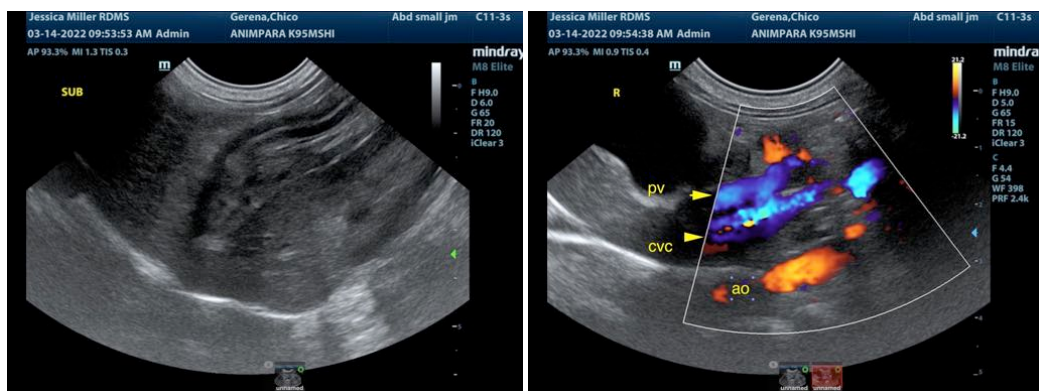
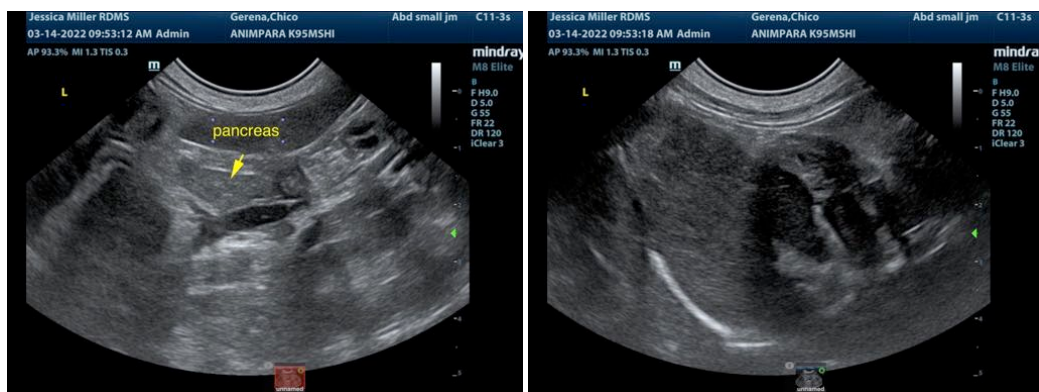
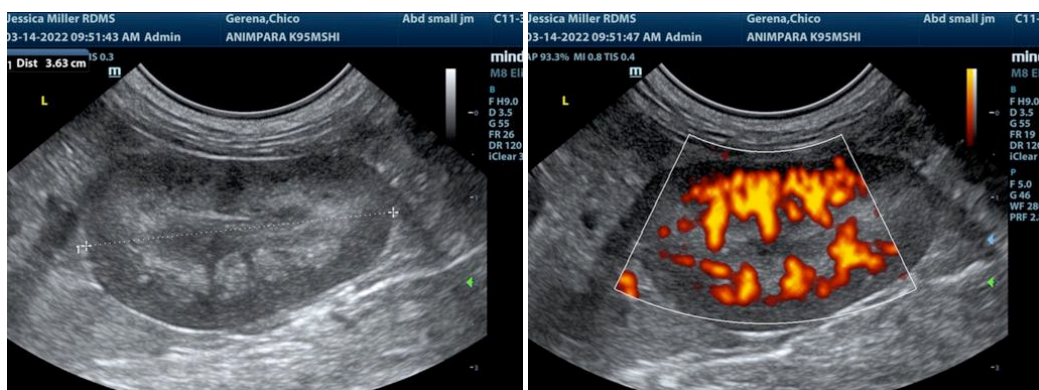
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PATIENT

Chico Genera

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.

SPECIES

Canine

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
info@SonoPath.com

BREED

Shih Tzu

SEX

Male

AGE

5 months

WEIGHT

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