



PATIENT	PRESENTING CLINICAL SIGNS
Star Hernandez	Increased liver values, ALT over 1000, patient is not eating. No history of Lepto vaccine. No reported meds.
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	Urinary System
BREED	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 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 changes were noted.
ShihTzu	
SEX	Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 3.9 cm in length. The right kidney measured 4.4 cm in length.
FS	
AGE	The area of the aortic trifurcation was free of pathology.
4yr	Adrenal Glands
WEIGHT	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.37 cm width at the caudal pole and 1.3 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.40 cm width at the caudal pole and 1.4 cm length.
NA	
INTERPRETED BY	Spleen
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	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.
IMAGING PERFORMED BY	Liver
Kelly Vazquez	The liver was mildly enlarged in size with normal structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a moderate coarse echotexture. Mildly indistinct portal vascular borders were noted.
HOSPITAL NAME	The gallbladder was non-distended in size with mildly thickened isoechoic walls and primarily anechoic luminal content. The gallbladder wall measured 0.37 cm in width. The cystic and common bile ducts were normal.
Well Pet Animal Hospital	
REFERRING VET	Gastrointestinal
Dr. Wellington	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.
INVOICE	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Intermittent minor mucosal specking was present. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.
11508ag	
DATE	Normal visible colon wall layers were present with apparent formed feces in lumen.
09/02/2022	



PATIENT

Pancreas

Star Hernandez

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.

SPECIES

Canine

Free Abdomen

No peritoneal effusion was present.

BREED

ShihTzu

A solitary mildly prominent to enlarged hepatic lymph node was present adjacent to the portal vein. The lymph node was essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). The lymph node measured 0.85 cm in diameter.

SEX

FS

Primary

- Hepatopathy
- Mildly thickened gallbladder and common bile duct-no evidence of post hepatic obstruction
- Associated solitary benign/reactive hepatic lymph node
- Sonographically unremarkable GI tract-suspect mild metabolic gastroenteritis

AGE

4yr

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

NA

The appearance of the liver is suggestive of acute or acute on chronic hepatitis/cholangiohepatitis (viral, bacterial, leptospirosis, toxin, etc.) in conjunction with the ALT elevation. No evidence of hepatobiliary neoplastic criteria was noted. Assuming normal clotting status and using a 25g needle a hepatic FNA is recommended for screening cytology. A leptospirosis titer/PCR is warranted if clinically applicable. Empirically hospitalization with IVF, hepatosupportive medications +/- antibiotic trial initially for 2 weeks with serial monitoring of hepatic response and as needed GI support is recommended. Hepatic core biopsy may be required for definitive diagnosis. No overt evidence of a portosystemic vascular anomaly.

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Well Pet Animal
Hospital

REFERRING VET

Dr. Wellington

INVOICE

11508ag

DATE

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PATIENT

Star Hernandez

SPECIES

Canine

BREED

ShihTzu

SEX

FS

AGE

4yr

WEIGHT

NA

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(Canine and Feline)

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REFERRING VET

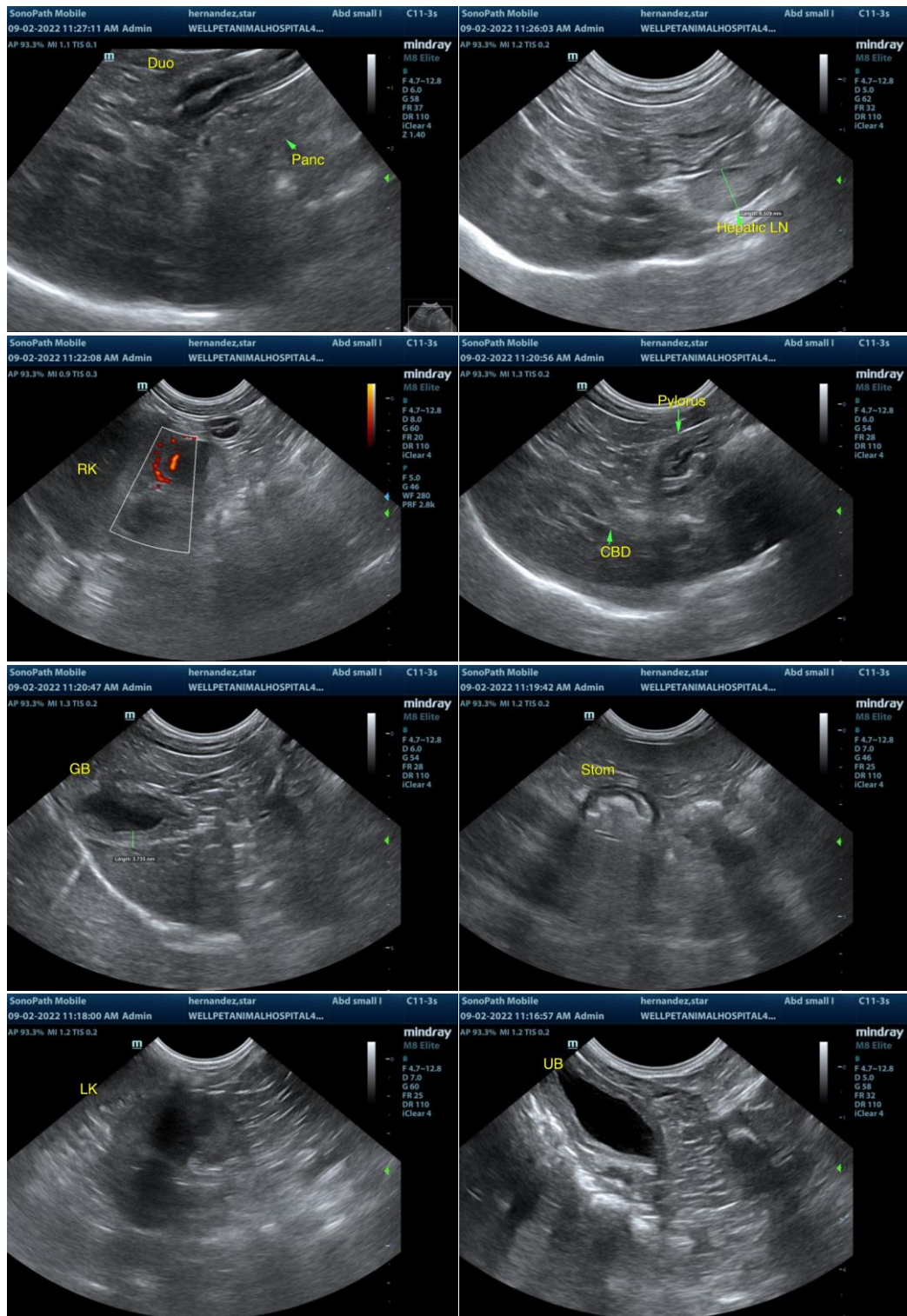
Dr. Wellington

INVOICE

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PATIENT

Star Hernandez

SPECIES

Canine

BREED

ShihTzu

SEX

FS

AGE

4yr

WEIGHT

NA

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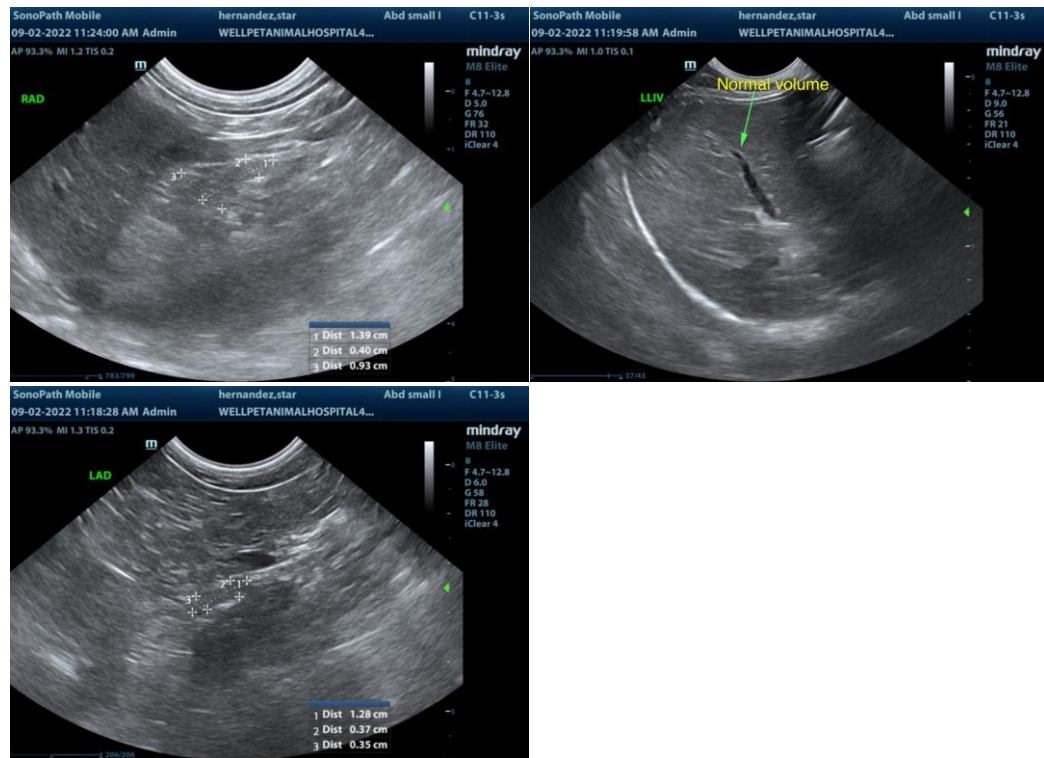
Dr. Wellington

INVOICE

11508ag

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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