



PATIENT

Ernest Pena

SPECIES

Canine

BREED

French Bulldog

SEX

M

AGE

11mo

WEIGHT

27lb

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr Ackmann

HOSPITAL NAME

Buffalo Veterinary
Clinic

REFERRING VET

Dr Bessler

INVOICE 24873

DATE
05/18/2026

PRESENTING CLINICAL SIGNS

Chronic elevated liver values with chronic soft stool as of January 2026. Fecal sendoff was negative.

Abnormal PE/Chem/CBC/UA Results: 1/14/26-Chem ALT 722 2/16/26- Chem ALT 944 4/1/26- Chem ALT 618, Amylase 422 5/12/26- Chem ALT 687

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 evidence of urine/lumen sediment, mineral, or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

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. No evidence of mineral or calculi. The left kidney measured 5.0 cm in length. The right kidney measured 0.49 cm in length.

The area of the aortic trifurcation was free of pathology.

The prostate was mildly enlarged in size with intact, symmetrical capsule contour. The margins of the gland were intact and able to be differentiated from the surrounding tissue. The prostatic parenchyma was mildly echogenic to heteroechoic without parenchymal mineralization. The prostate measured 3.0 cm in diameter.

Adrenal Glands

The left adrenal gland was subjectively mildly subnormal in size with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.32 cm width at the caudal pole. The right adrenal gland was borderline subnormal in size with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.35 cm width at the caudal 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. Subjective normal vascular volume. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and mild non-organized mild gravity dependent to non-dependent non-organized debris. The cystic and common bile ducts were normal.

Gastrointestinal



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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. The lumen of the small intestine was empty with no signs of mechanical/metabolic ileus, obstruction or foreign material.

Normal visible colon wall layers were present with semi formed to soft feces in lumen.

Pancreas

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.

Free Abdomen

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

ULTRASONOGRAPHIC FINDINGS

Primary

- Sonographically unremarkable normal volume liver
- Mild gallbladder debris
- Normal gastrointestinal tract with semi-formed to soft fecal matter in colon
- Subjective borderline /mild subnormal adrenal glands

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No obvious evidence of intrahepatic or extrahepatic macroscopic shunt. Primary parenchymal disease such as nonspecific inflammatory disease, hepatotoxicosis i.e. copper, or similar with potential for portal hypoplasia, microvascular dysplasia, all potentials. Further assessment may include assuming normal clotting status, hepatic FNA cytology to assess for inflammatory cell type in correlation with bile acid profile. Gold standard hepatic biopsies with histopathology and copper assessment may be required for definitive diagnosis, A GI panel to include PLI/TLI/Cobalamin/Folate and screening cortisol level is recommended.

If the patient is non-clinical, hepatosupportive medications with concurrent gastrointestinal support including dietary trial, high colony count probiotic, and empirical deworming may prove beneficial.

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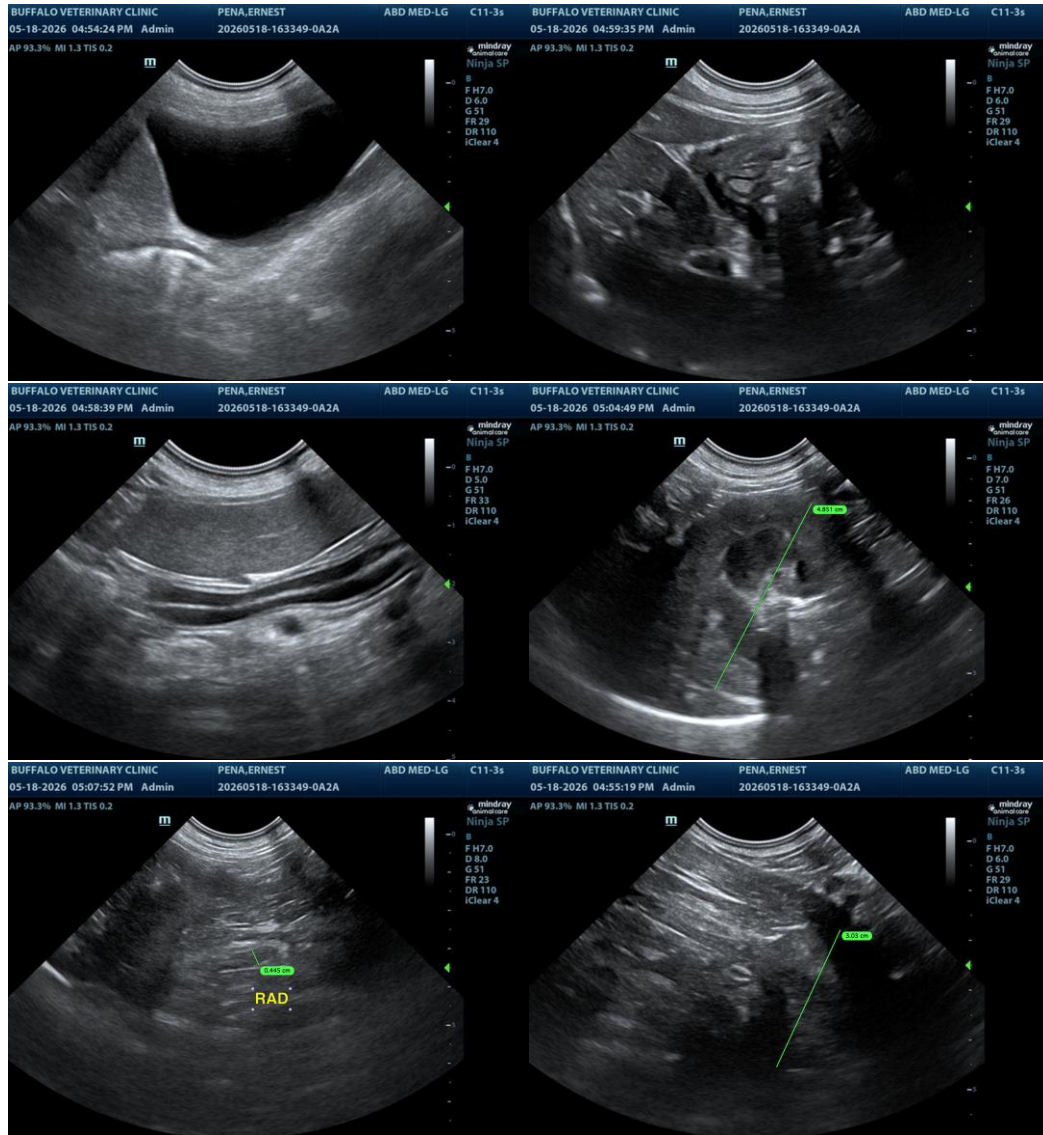
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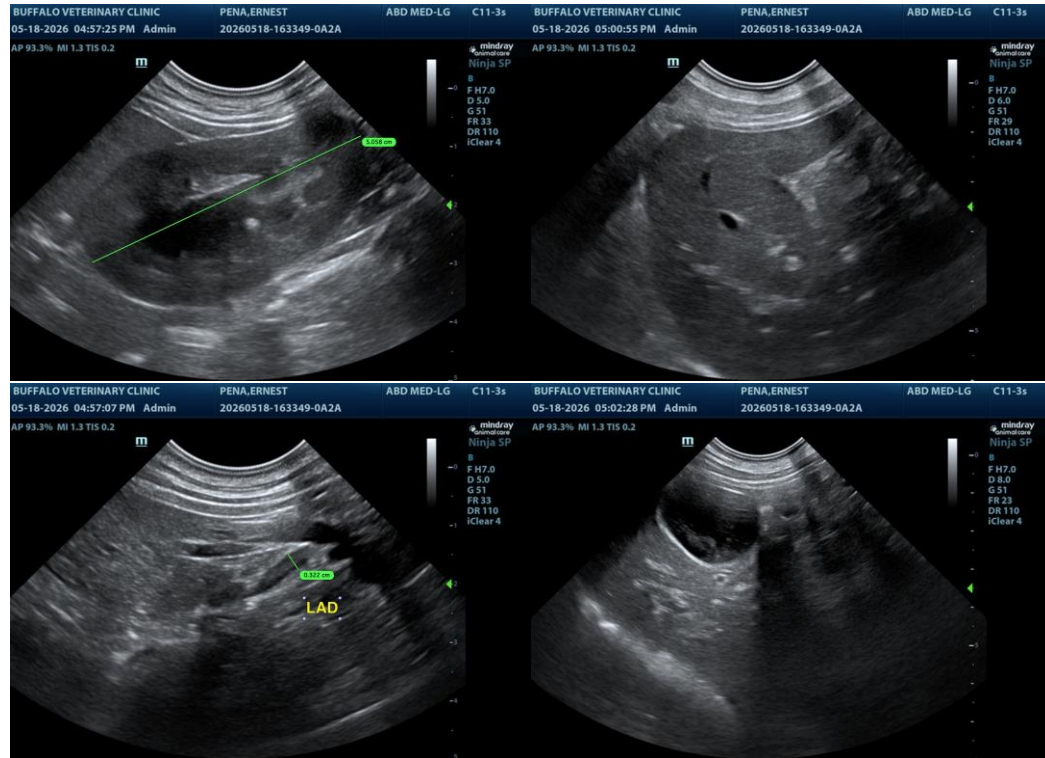
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
info@sonopath.com