



PATIENT

El Barto Vathje

SPECIES

Canine

BREED

Chihuahua

SEX

M/N

AGE

9

WEIGHT

4.5 kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Beddington Trail AH

REFERRING VET

Dr. Bahadur

INVOICE

16180

DATE

2/15/23

PRESENTING CLINICAL SIGNS

Elevated liver enzymes presented for respiratory issues

Abnormal PE/Chem/CBC/UA Results: Mild elevation of liver enzymes and postprandial bile acids

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 uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted. No mineral or calculi was present.

The area of the aortic trifurcation was free of pathology.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and minor loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 3.6 cm in length. The right kidney measured 3.7 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.44 cm width at the caudal pole and 0.41 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.41 cm width at the caudal pole and 0.44 cm width at the cranial 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 presented mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. Normal hepatoportal vascular volume was present. Subjective normal visualized portal vein was noted. Intermittent discrete nondisruptive, hypoechoic nodules (likely consistent with benign etiologies such as hyperplasia, hematopoiesis, or similar) were present. The gallbladder was non-distended in size containing anechoic content with moderate, mobile, nonorganized, gallbladder debris. No evidence of gallbladder or peripheral gallbladder inflammation was noted. The cystic and common bile ducts were normal.



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Gastrointestinal

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 ileus, obstruction, or foreign material.

Normal visible colon wall layers were present with apparent formed 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 were evident.

Free Abdomen

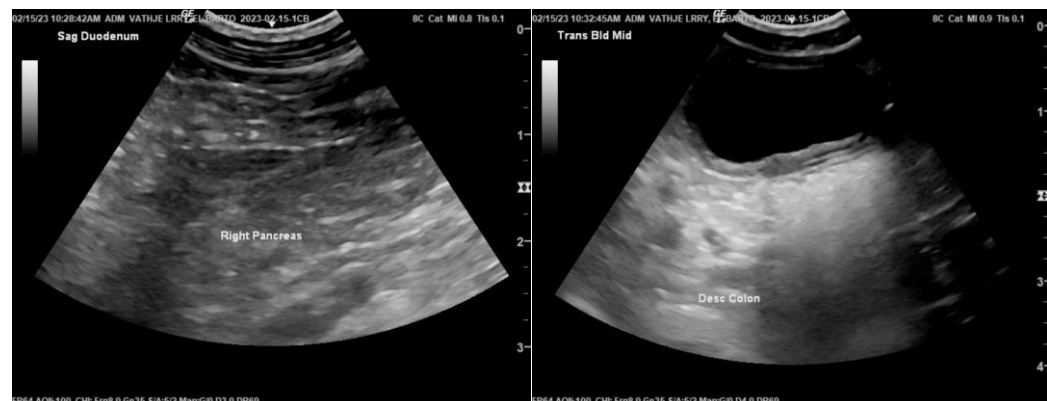
No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

- Mild hepatopathy exhibiting normal vascular volume - benign
- Gallbladder debris - not consistent with mucocele criteria
- Minor age-related kidneys

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The liver was nonspecific with considerations including vascular hepatopathy, low-grade inflammatory disease i.e., cholangiohepatitis, given the concurrent presence of gallbladder debris, nonobstructive cholestasis, or other hepatopathy. Screening hepatic FNA cytology could be considered primarily to assess for evidence of inflammatory cells. Hepatosupportive medications including Denamarin and Ursodiol with monitoring of hepatic response may prove beneficial. No evidence of microscopic or macroscopic shunt was noted.





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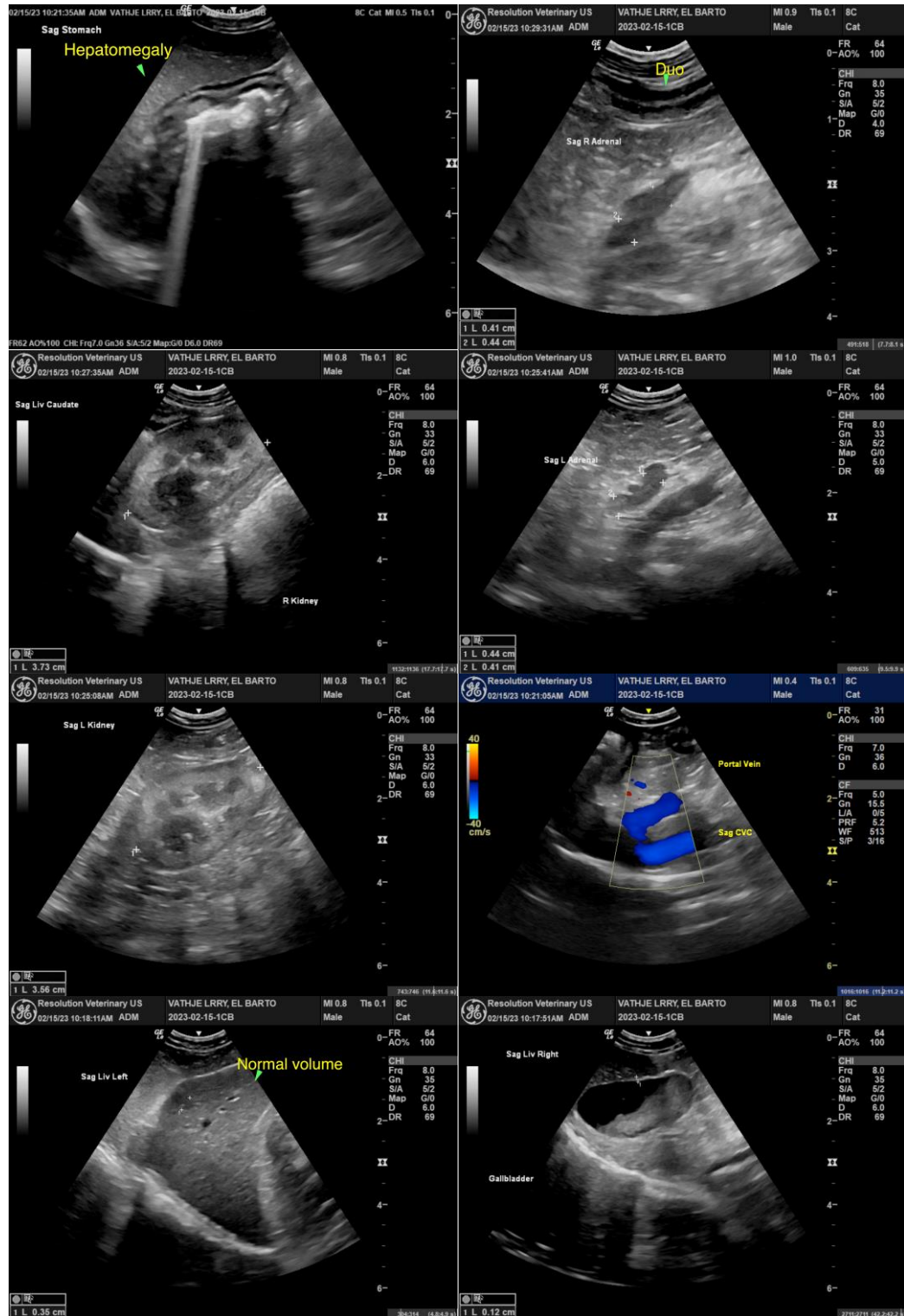
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



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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.

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info@SonoPath.com

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