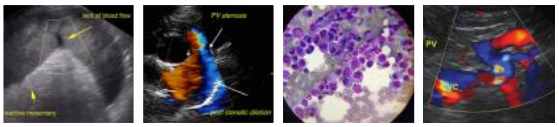


PATIENT

Blue Dahms

SPECIES

Canine

BREED

Australian Cattle Dog

SEX

MN

AGE

5 years

WEIGHT

43 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Q Street AH

REFERRING VET

Dr. Bretschneider

INVOICE

17337

DATE

7/21/23

PRESENTING CLINICAL SIGNS

totally normal on exam. did pre-op BW for dental and found elevated liver values
Abnormal PE/Chem/CBC/UA Results: ABNORMAL Labratory Findings 5/16/23. ALT = 381, the rest is all normal. put on Denamarin for 2 months and repeat lab work = = = 7/17/23. ALT = 522, AST = 101
Current Medications Denamarin Radiographic Findings none

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths, 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.

The residual prostate was free of pathology.

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 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 renal mineralization was noted. The left kidney measured 5.8 cm in length. The right kidney measured 7.1 cm in length.

Adrenal Glands

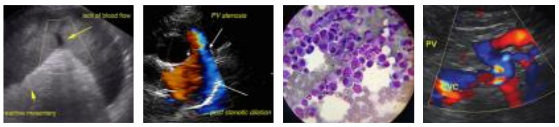
The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 2.1 cm length x 0.53 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 2.9 cm length x 0.53 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 presented subjective mild enlarged size with normal to adequate hepatic vascular volume. 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. The gallbladder was non-distended in size with primarily anechoic luminal content. 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

- Hepatopathy - sonographically consistent with benign hepatopathy criteria
- Sonographically normal gallbladder
- Otherwise sonographically normal abdomen

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall liver was nonspecific with primary consideration for nonspecific inflammatory hepatopathy i.e., nonspecific hepatitis. Toxic hepatopathy i.e., copper, given the ALT / AST elevation is possible. Leptospirosis titers / PCR could be considered if potential exposure. Screening hepatic FNA cytology, assuming normal clotting status, is warranted primarily to potentially identify inflammatory criteria or cell type. There was no evidence of extrahepatic or intrahepatic macroscopic shunt. Hepatic core surgical biopsy is likely required for a definitive histopathological diagnosis.

No overt anesthetic contraindications assuming evidence of adequate hepatic function i.e., normal albumin, glucose, BUN, and cholesterol levels.

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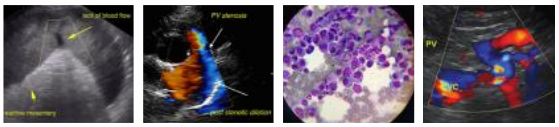

ANIMAL SOUNDS NW
MOBILE VETERINARY ULTRASOUND
IMAGING PERFORMED BY
AnimalSoundsNW.com 541-357-9423

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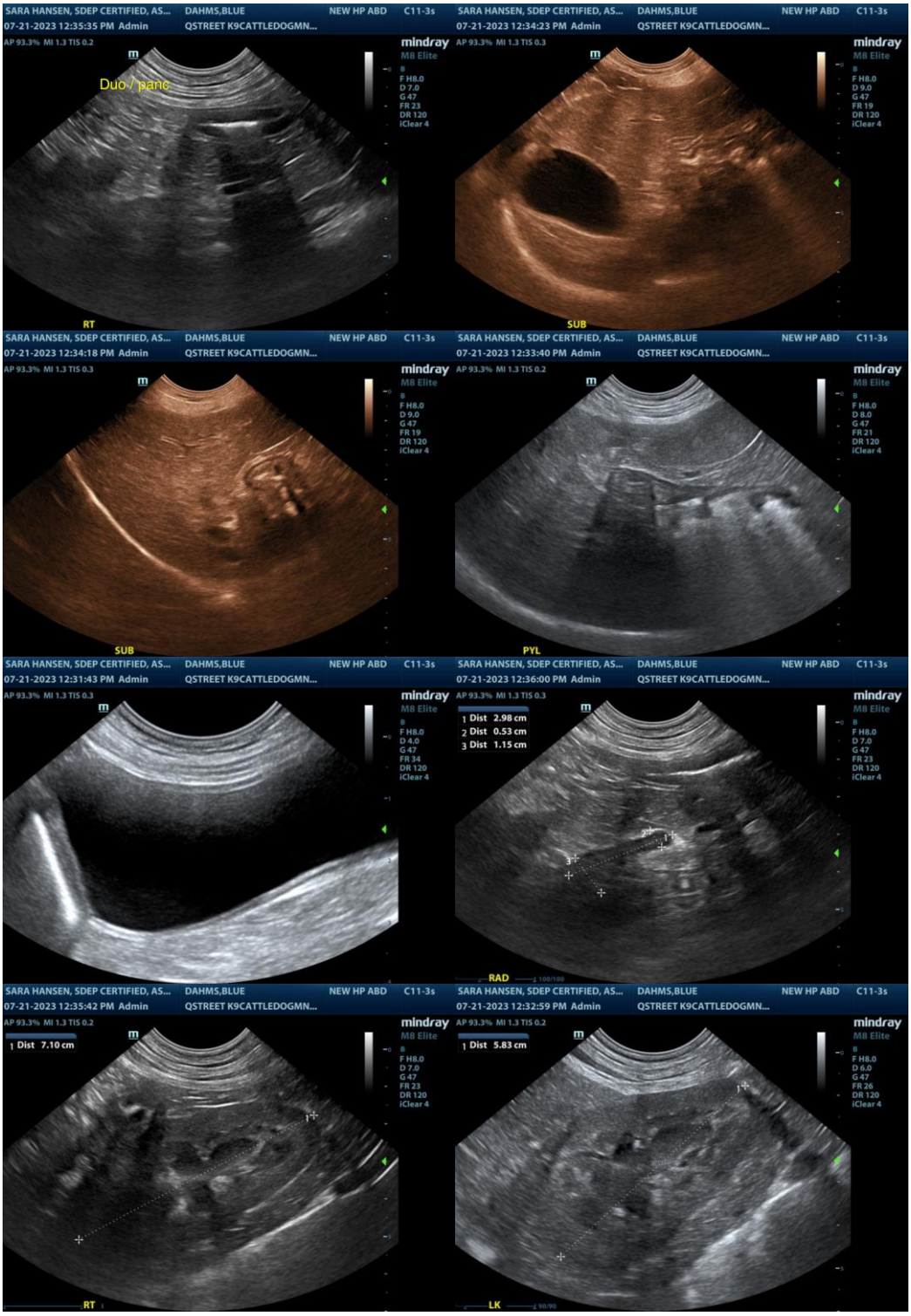

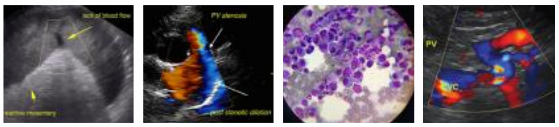

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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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