



PATIENT

Teddy Anderson
Howard

SPECIES

Canine

BREED

Chihuahua Mix

SEX

MN

AGE

11yr

WEIGHT

15lb

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Sara Hansen

HOSPITAL NAME

Four Corners
Veterinary Clinic -

REFERRING VET

Dr. Whyte

INVOICE

14234ag

DATE

06/26/2023

PRESENTING CLINICAL SIGNS

Progressive abdominomegaly over months.

Abnormal PE/Chem/CBC/UA Results: Total Calcium 12.1, mild elevation ALT=436, Alk Phos=1269, GGT =34 normal bilirubin Current Medications none Radiographic Findings cystoliths, cranial abdominal mass, spondylosis

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal tone. Normal bladder wall was present with no evidence of tumors. Several small dependent lumen calculi were present, an example measured 0.40 cm in diameter.

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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Focal non-obstructive medullary mineral was present. The left kidney measured 4.6 cm in length. The right kidney measured 4.9 cm in length.

The area of the aortic trifurcation was free of pathology.

The area of the residual prostate appeared normal and free of pathology.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.49 cm width at the caudal pole and 1.8 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.66 cm width at the caudal pole and 1.5 cm length.

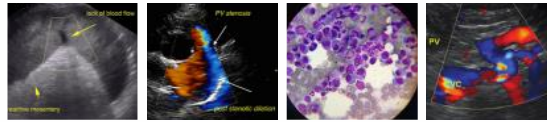
Spleen

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 moderately 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. A solitary subtle non-homogenous hyperechoic intraparenchymal nodule was present in the ventral left liver measuring 1.2 cm in diameter. The capsule of the liver was symmetrically rounded to mildly swollen in margination. Normal vascular volume. 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 and moderate non-organized mobile hyperechoic sediment. 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.

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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.

Canine

Normal visible colon wall layers were present with apparent formed feces in lumen.

BREED

Pancreas

Chihuahua Mix

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.

SEX

Free Abdomen

MN

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

AGE

Subjective increased amount of intra-abdominal fat.

11yr

ULTRASONOGRAPHIC FINDINGS

WEIGHT

- Moderate hepatomegaly with subjective benign intraparenchymal nodule- nonspecific, vacuolar hepatopathy, inflammatory/immune mediated disease, hematopoiesis, hyperplasia, fibrosis or other hepatopathy possible. Neoplastic criteria considered less likely.
- Moderate gallbladder sediment (non-mucocele)
- Mild chronic renal changes with focal medullary mineral
- Small cystic calculi.
- Normal spleen.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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No evidence of intra-abdominal masses of peritoneal effusion. Assuming normal clotting status, a hepatic parenchyma FNA for screening cytology is warranted for further assessment. Hepatosupportive medications such as Denamarin and Ursodiol may prove beneficial.

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Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered. Three view chest radiographs are recommended if not done to assess for occult thoracic pathology. Rectal palpation and hypercalcemia panel may be considered.

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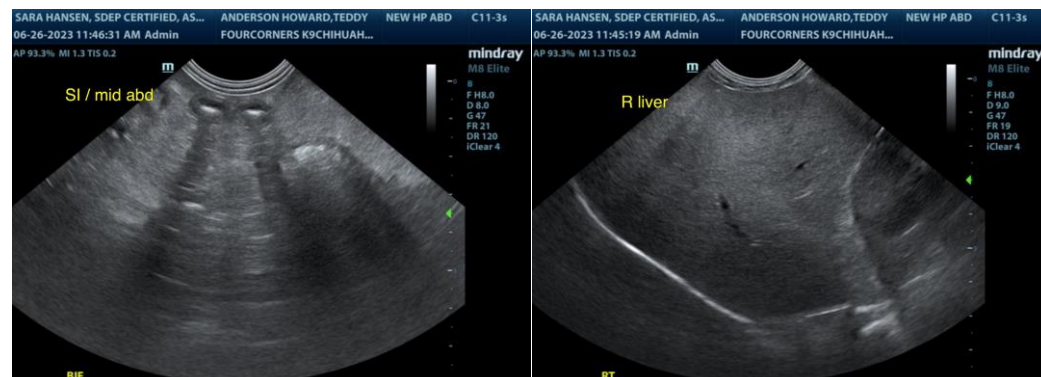
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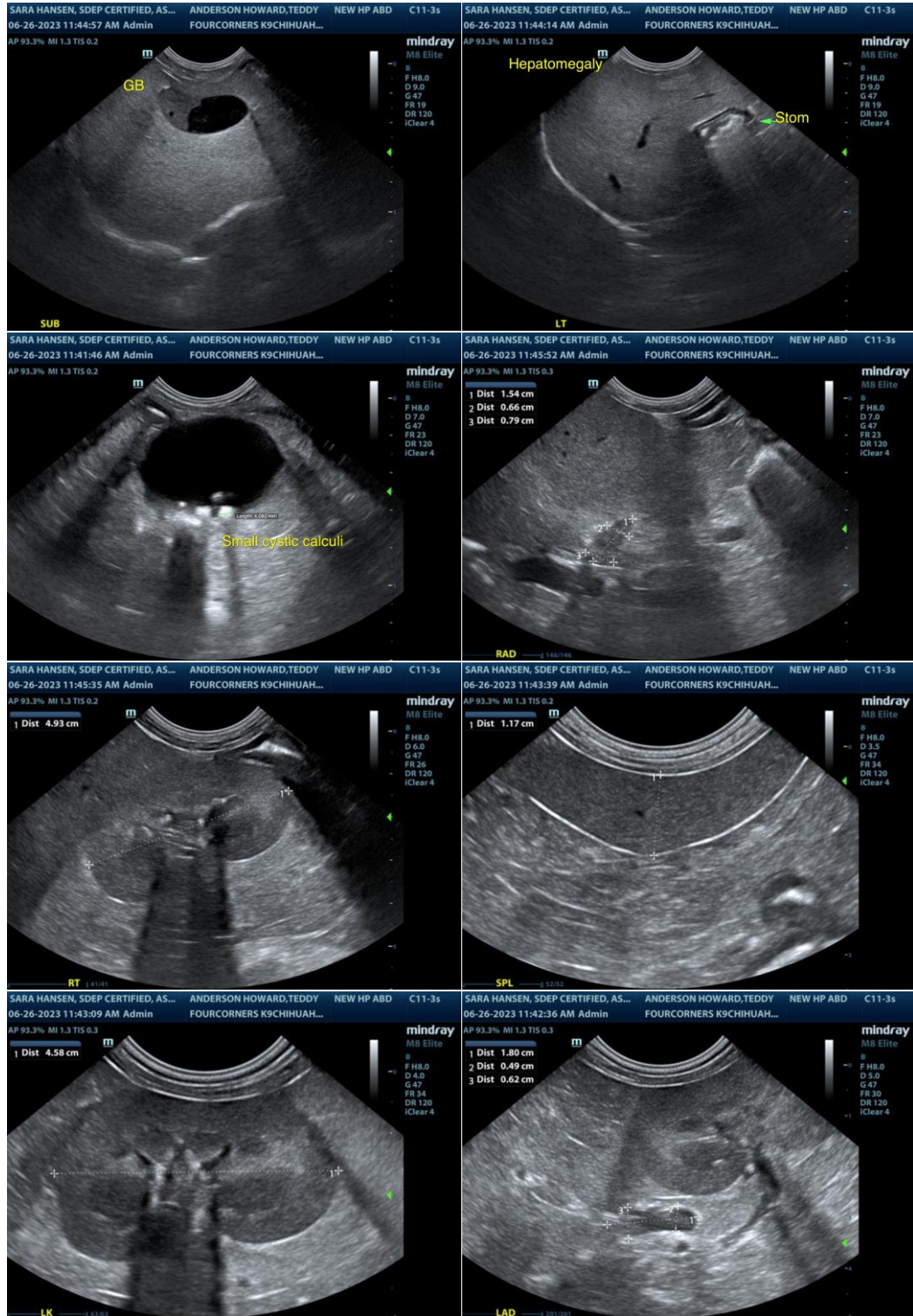
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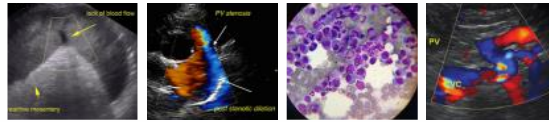
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not



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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