

**PATIENT**

Chewy Whipple

SPECIES

Canine

BREED

Yorkie X

SEX

I/M

AGE

11 years

WEIGHT

12 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

Dr. Hartmann

INVOICE

16244

DATE

2/21/23

PRESENTING CLINICAL SIGNS

In January during regular exam we did Pre-anesthesia BW with plans to do dental (grade 4 teeth). Mostly non-clinical. Upon further discussion with owner they did note that sometimes he seems to have a painful abdomen and will stretch out and rub her abdomen on the floor. Denamarin given for 1 month. Today was a recheck on liver enzymes, not improved.

Abnormal PE/Chem/CBC/UA Results: Elevated Liver enzymes. 1/18/2023 ALT 265, AST 63, ALP 1994
2/21/2023 ALT 361, ALP 3208, GGT 179

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder, trigone, and cystourethral junction 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.

The prostate was enlarged in size with an 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 2.5 cm in diameter.

The area of the aortic trifurcation was free of pathology.

Normal size and contour were present in the kidneys. Moderate loss of corticomedullary border demarcation was present with increased renal echogenicity. Pinpoint dystrophic medullary mineral was noted. The left kidney measured 3.9 cm in length. The right kidney measured 4.2 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 1.0 cm length x 0.32 cm width at the caudal pole.

Irregularly enlarged, nonhomogeneous pinpoint hyperechoic right adrenal mass was present measuring 2.1 cm length x 1.6 cm width. Pinpoint hyperechoic areas within the right adrenal mass, suggestive of pinpoint mineralization, were noted. No obvious vascular invasion, although the possibility of very early vascular invasion cannot be definitively excluded.

Spleen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease.

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Liver/ Gallbladder

The mid to left liver was enlarged secondary to expansive, mild irregular, nonhomogeneous to cystic mass occupying the majority of the mid to left liver parenchyma extending caudally into the level of the gastric axis. The mass measured approximately 8.0-9.0 cm in diameter. Intact hepatic parenchyma was noted in the mid to right and caudate liver exhibiting normal parenchyma echogenicity and mild coarse echotexture. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with mild luminal gas and no signs of ileus, obstruction, or foreign material. Suspect mild impingement on the stomach secondary to the liver mass with possible mild gastric displacement.

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 pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum, consistent with age-related pancreatic changes. No signs of active inflammation or neoplasia. No evidence of pancreatic pathology was noted.

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

- Mid to left liver mass
- Right adrenal mass
- Bilateral chronic renal changes
- Benign prostatic hyperplasia, mild potential for prostatitis
- Structurally normal gastrointestinal tract with suspect mild gastric displacement

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The right adrenal mass is almost certainly consistent with neoplastic criteria, while the liver mass was more nonspecific with benign, neoplastic, or metastatic etiologies possible. Neoplastic / metastatic criteria for the liver mass is favored.

Further assessment may include FNA cytology of the liver mass, as well as assessment of systemic BP, which may allude to right pheochromocytoma. Given the lack of reported PU/PD, polyphagia, etc., cortisol-secreting right adrenal tumor may be considered less likely.

IMAGING PERFORMED BY

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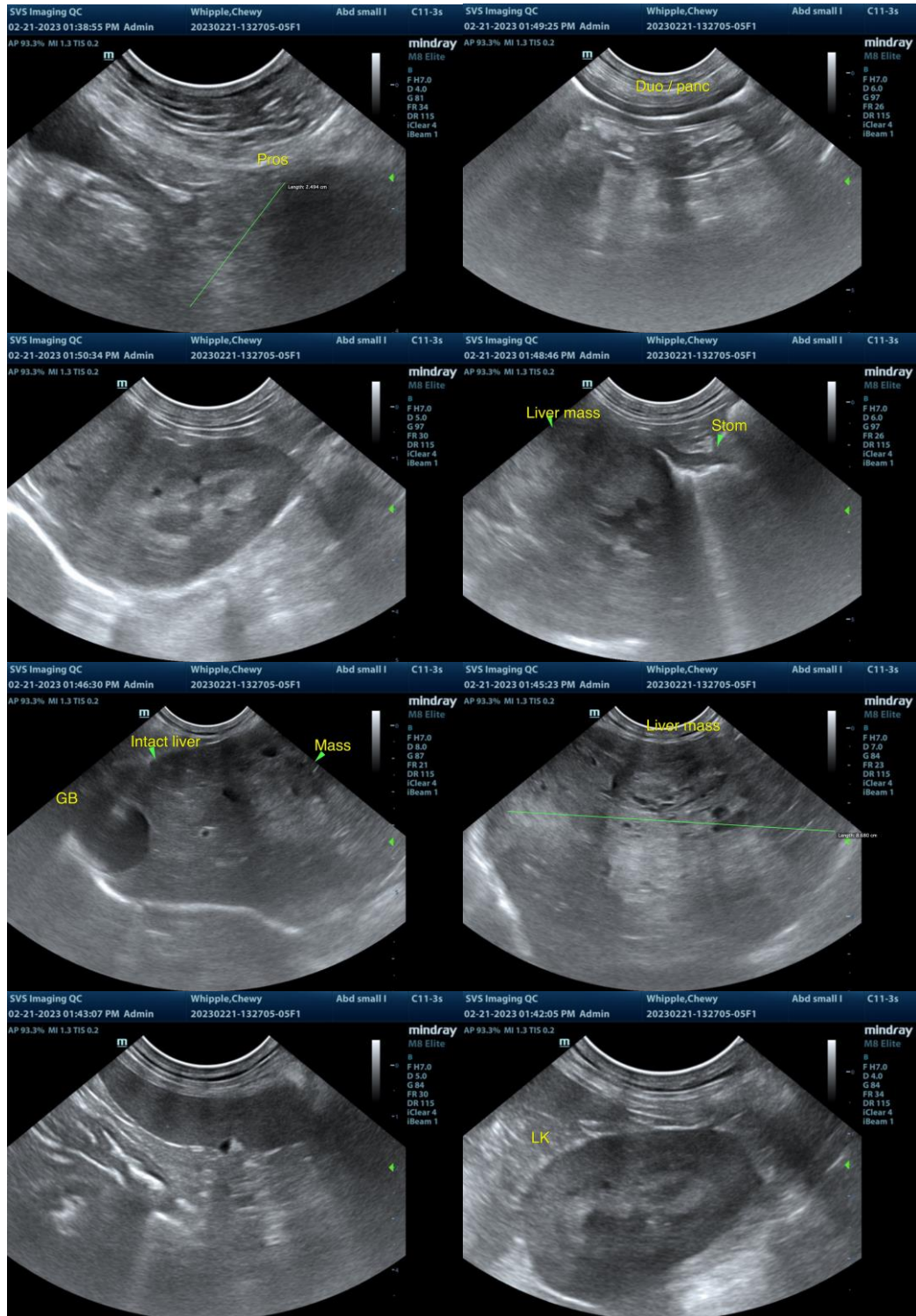
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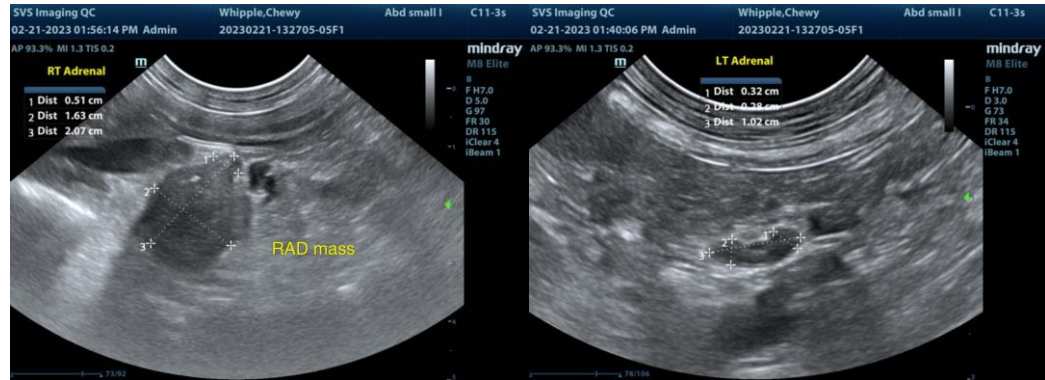
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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