



PATIENT PRESENTING CLINICAL SIGNS

Rhubarb Marceau Presenting for new PU/PD and having accidents in house. UA performed and inadequate specific gravity but no UTI present. History of hypothyroidism, well controlled. Work up for possible Cushing's disease.

SPECIES

Canine On: Thyro-tab 0.6mg - 1 tab by mouth twice daily.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Lab Mix

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm 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 were noted.

SEX

FS

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and mildly indistinct corticomedullary definition were present. 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. The left kidney measured 6.3 cm in length. The right kidney measured 7.1 cm in length.

AGE

8yr

The area of the aortic trifurcation was free of pathology.

WEIGHT

64.5lb

The area of the uterine remnant appeared normal and free of pathology.

Adrenal Glands

INTERPRETED BY

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

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.67 cm width at the caudal pole and 0.48 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 0.69 cm width at the caudal pole and 0.69 cm width at the cranial pole.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

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.

HOSPITAL NAME

Wood River Animal Hospital

Liver/Gallbladder

REFERRING VET

Dr. Schuelke

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. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

INVOICE

12602ag

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.

DATE

01/06/2023

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.



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

Rhubarb Marceau

Pancreas

SPECIES

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.

Canine

Free Abdomen

BREED

No omental masses or peritoneal effusion was present.

Lab Mix

SEX

Focal, mildly prominent to enlarged mesenteric and medial iliac lymph nodes were present. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). An example of a mesenteric lymph node measured 3.9 cm x 0.49 cm. An example of a medial iliac lymph node measured 2.7 cm x 0.31 cm. This finding is considered incidental and is not consistent with inflammatory or neoplastic criteria.

FS

ULTRASONOGRAPHIC FINDINGS

AGE

- Normal urinary bladder and visible proximal urethra
- Early age related kidney changes-no evidence of pyelonephritis
- Normal bilateral adrenal glands
- Normal liver

8yr

WEIGHT

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

64.5lb

Overall, there is no overt evidence of significant abdominal visceral pathology as a definitive cause of the patient's clinical signs. The sonographic hepatic and adrenal presentation was not overtly suggestive of Cushing's syndrome yet adrenal workup is required for a definitive assessment if strong clinical signs of Cushing's are present. Possible early renal insufficiency may be considered. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered even without overt UTI signs, evidence of cystitis or if no evidence of significant proteinuria. Leptospirosis may be a less likely differential pending additional diagnostics given lack of reported hepatic/renal enzyme elevations.

INTERPRETED BY

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

IMAGING PERFORMED BY

Pamela Harrigan, RDMS

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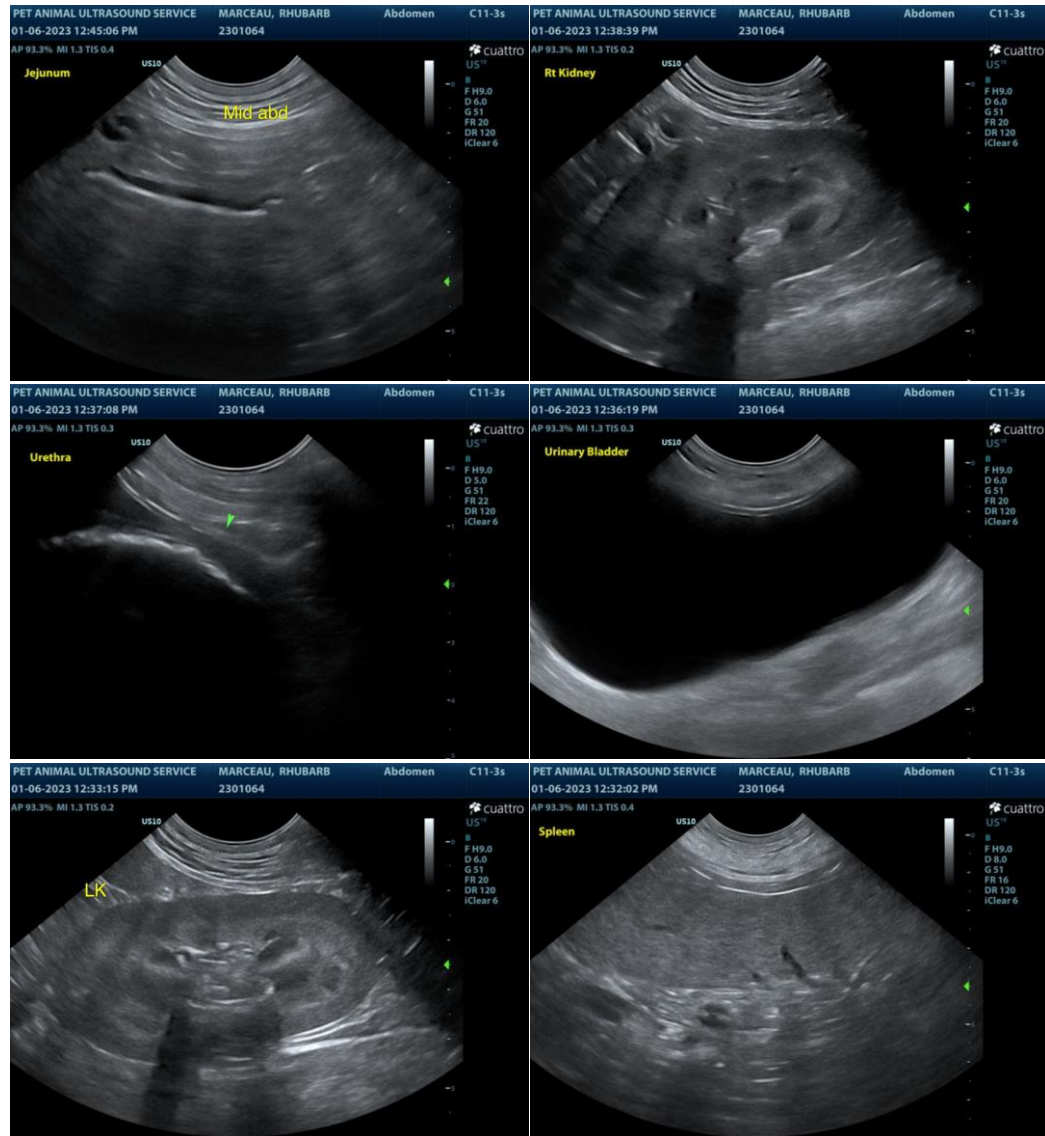
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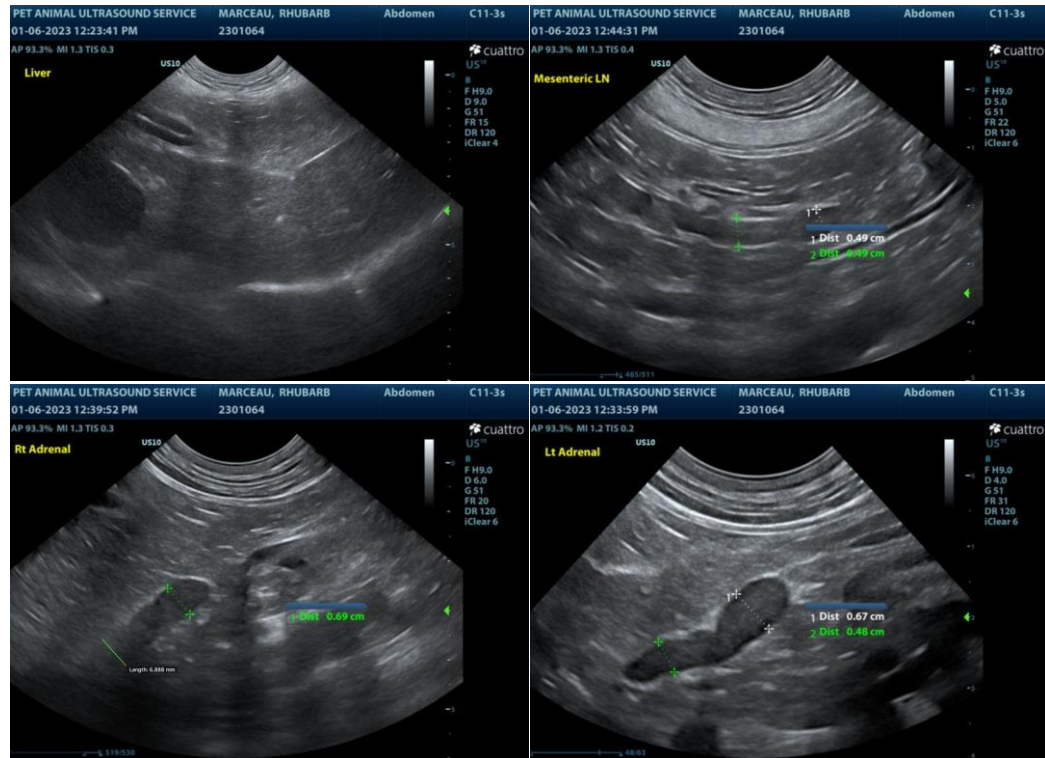
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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