



PATIENT PRESENTING CLINICAL SIGNS

Marlin Balas

Presented for wellness exam with new heart murmur and pu/pd. No history of stomach upset, not currently on any medications. Blood work showed regenerative anemia, anaplasma positive and alkphos 1052 (was normal in 2021) all other chems normal, normal T4. Concerned about Cushing's and valvular disease. Has never been on heartworm preventative but is currently negative for HW antigen on 4dx. ALP 1052. BP: 168, 168, 170 mmHg. Having bi-cavity ultrasounds.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Shih Tzu

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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

MN

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 moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Bilateral pinpoint medullary mineral was present. Intermittent small cortical cysts were noted. A non-homogenous mildly irregular cranial left kidney mass was present. The left kidney measured 4.5 cm in length. The right kidney measured 4.7 cm in length.

AGE

11yr

WEIGHT

19.4lb

The area of the aortic trifurcation was free of pathology.

The residual prostate was normal in size and contour with subtle non-homogenous pinpoint hyperechoic parenchyma consistent with age related changes measuring 0.56 cm in diameter.

INTERPRETED BY

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

Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.41 cm width in the cranial pole and 0.46 cm width in the caudal pole. The right adrenal gland measured 0.59 cm width in the cranial pole and 0.62 cm width in the caudal pole.

IMAGING PERFORMED BY

Pamela Harrigan, RDMS

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

Compassionate Care
VC

REFERRING VET

Dr. Farrington

Liver/Gallbladder

The liver exhibited mild to moderate generalized enlargement with symmetrical capsule contour and overall normal parenchyma echogenicity. Evidence of minor parenchyma remodeling was present. A solitary non-disruptive multichambered cyst was present measuring 1.5 cm in the caudal liver. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with non-thickened mildly hyperechoic walls. Moderate non-dependent mildly organized to congealed gallbladder debris and suspected entrapped hypoechoic mucus was present. The cystic and common bile ducts were normal.

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DATE

04/21/2023

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.

SPECIES

Canine

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

BREED

Shih Tzu

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

Free Abdomen

SEX

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

MN

ULTRASONOGRAPHIC FINDINGS

AGE

11yr

- Moderate bilateral chronic renal changes.
- Non-homogenous mildly irregular mass in the area of the left kidney with associated peripheral inflammation.
- Intact bilateral adrenal glands.
- Hepatopathy with parenchymal remodeling and intraparenchymal cyst-subjectively benign.
- Immature gallbladder mucocele.

WEIGHT

19.4lb

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

The mass in the area of the cranial left kidney is suspected to be of renal origin. The mass did not appear to be definitively connected to the left/right adrenal gland with adrenal origin considered less likely. A full adrenal workup with LDDST is warranted if there is strong clinical suspicion for Cushing's syndrome. Continued monitoring of systemic BP is indicated. If persistent hypertension, urine catecholamine levels could be considered.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Three view chest radiographs are recommended if not done to assess for occult thoracic pathology. Sampling of the mass in the area of the cranial left kidney is required for further clarification. Abdominal CT could be considered especially if surgical options are a potential.

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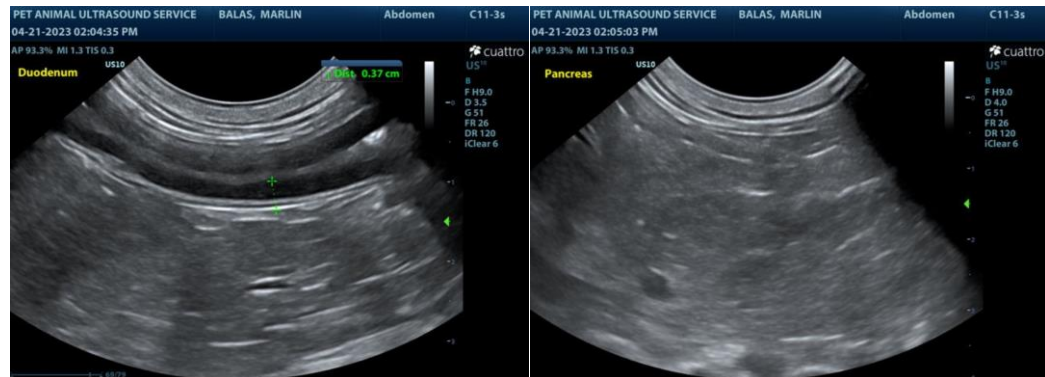
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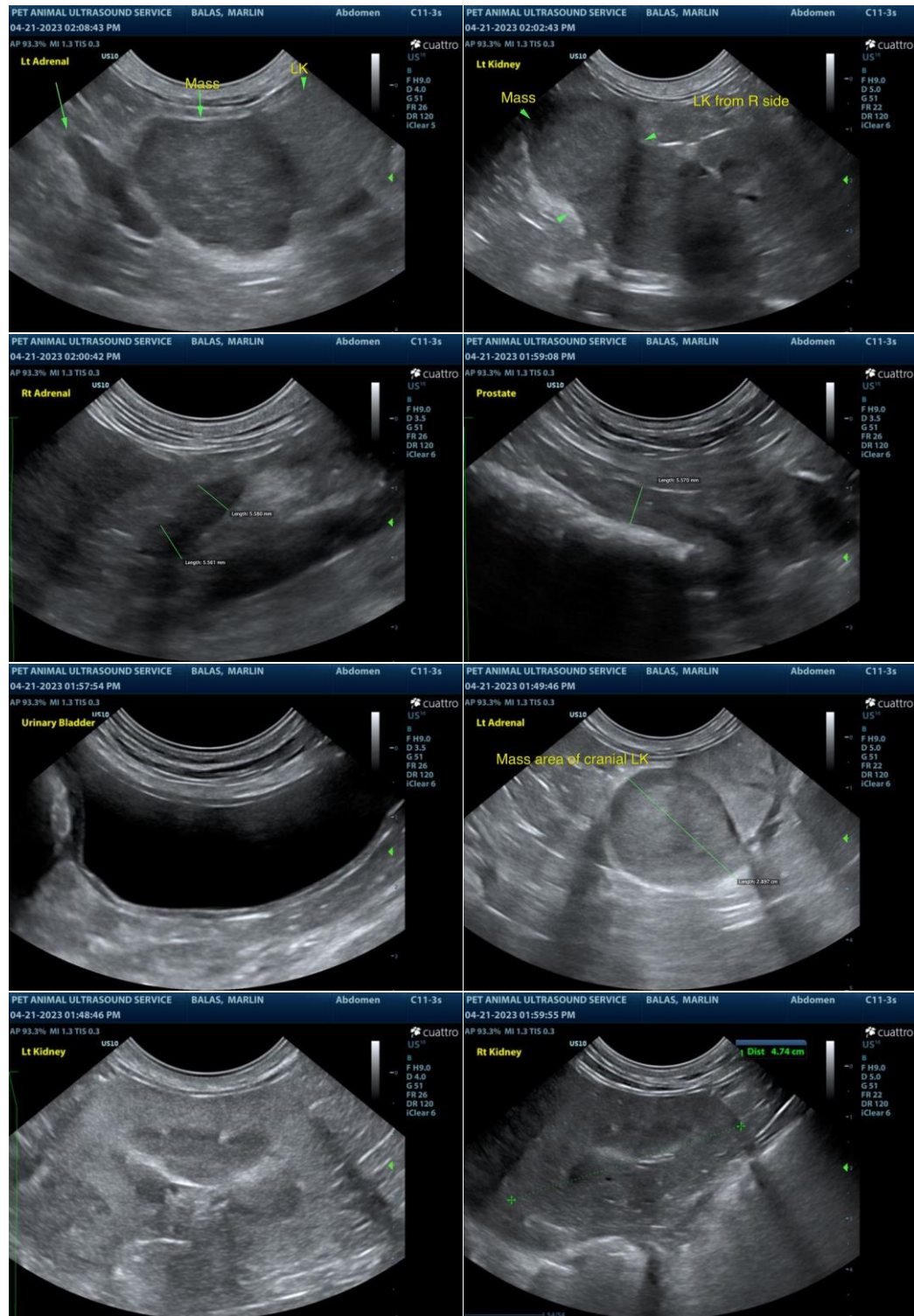
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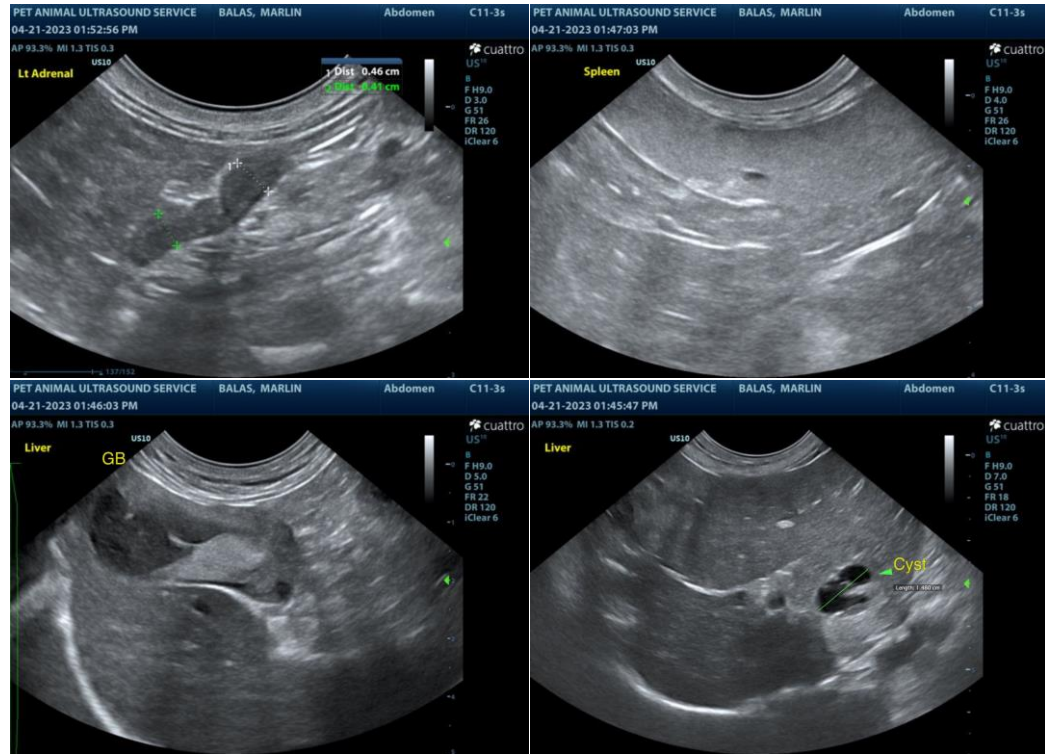
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

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