

**PATIENT PRESENTING CLINICAL SIGNS**

**Lambeau Moreau** Lambeau has elevated lymphocyte count on routine blood work along with elevated ALP. Pathologist review indicated that this is possible lymphoma. Would like to do further diagnostics to check for enlarged lymph nodes.

**SPECIES**

Canine Abnormal PE/Chem/CBC/UA Results: Lymphocytes - 46,464. ALP - 523.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

**Urinary System**

Lab x Golden

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4 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 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. The left kidney measured 6.3 cm in length. The right kidney measured 5.7 cm in length.

**AGE**

11yr

The area of the aortic trifurcation was free of pathology.

**WEIGHT**

55.6lb

**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 0.82 cm width in the cranial pole and 0.80 cm width in the caudal pole. The right adrenal gland measured 0.57 cm width in the cranial pole and 0.61 cm width in the caudal pole.

**INTERPRETED BY**

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

**Spleen**

The spleen exhibited possible borderline enlargement with mild generalized parenchyma heterogeneity. A solitary non-disruptive hypoechoic nodule was present measuring 0.93 cm. 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.

**IMAGING PERFORMED BY**

Pamela Harrigan, RDCS

**Liver/Gallbladder**

The liver exhibited generalized enlargement with symmetrical capsule contour and mildly non-uniform increased parenchymal echogenicity. The hepatic and portal vasculature were normal in appearance without signs of congestion. No hepatic masses or nodules. The gallbladder was mildly distended in size with thin walls and significant inspissated non-organized hyperechoic debris. Concurrent suspected hypoechoic mucus was present. The cystic and common bile ducts were normal.

**HOSPITAL NAME**

Airport Animal Hospital

**REFERRING VET**

Dr. Gudluru

**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.

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Segmental non-obstructive duodenojejunal ileus was present. The lumen of the small intestine was empty with no signs of obstruction or foreign material.

**DATE**

03/31/2023

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



**PATIENT**

**Pancreas**

Lambeau Moreau

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

**SPECIES**

**Free Abdomen**

Canine

No omental masses or peritoneal effusion was present.

**BREED**

Lab x Golden

Focally enlarged medial iliac and mesenteric lymph nodes were present. These lymph nodes were homogenous, mildly hypoechoic and smoothly marginated. A normal width: length ratio was maintained (<0.5). Evidence of perilymphatic inflammation was evident. An example of medial iliac lymph node size was 3.6 cm x 1.0 cm.

**SEX**

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**AGE**

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**ULTRASONOGRAPHIC FINDINGS**

- Hepatopathy exhibiting mild parenchyma hyperechogenicity-chronic vacuolar hepatopathy, inflammatory/immune mediated disease, hematopoiesis, hyperplasia, cholestasis, fibrosis or infiltrative neoplasia possible.
- Immature gallbladder mucocele.
- Mild heterogenous spleen with focal intraparenchymal nodule-age related spleen, hyperplasia, hematopoiesis, focal splenitis or infiltrative neoplasia possible.
- Age related renal/adrenal changes.
- Normal GI tract with minor duodenojejunal ileus.
- Minor pancreatic remodeling.
- Intermittent mildly prominent to irregular mesenteric and medial iliac lymphadenopathy.

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DABVP (Canine and Feline)

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Given concern for lymphoma and assuming normal clotting status a hepatosplenic and lymph node FNA for screening cytology is warranted for further assessment with potential for oncology consult. Hepatosupportive medications such as Denamarin and Ursodiol may prove beneficial.

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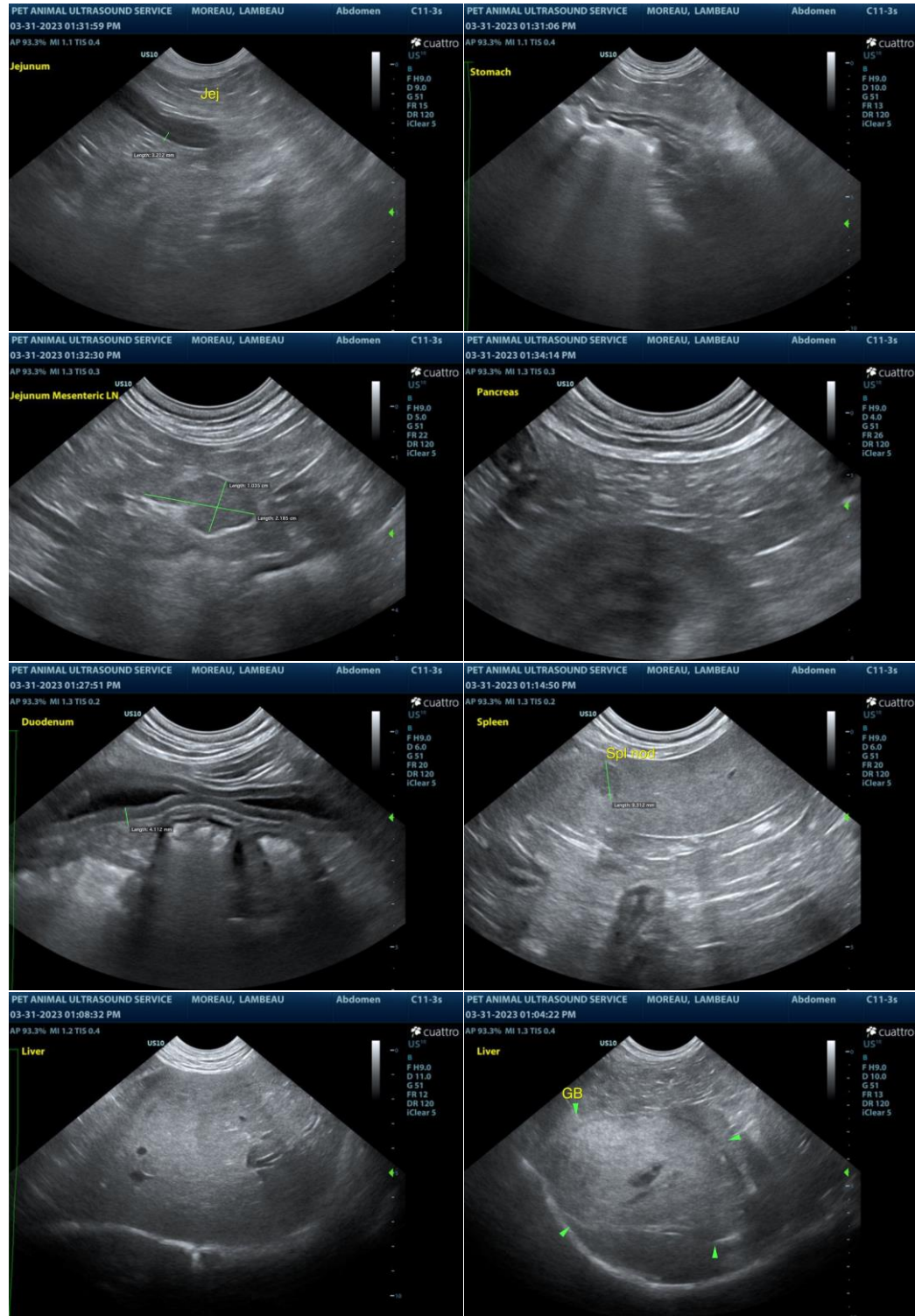
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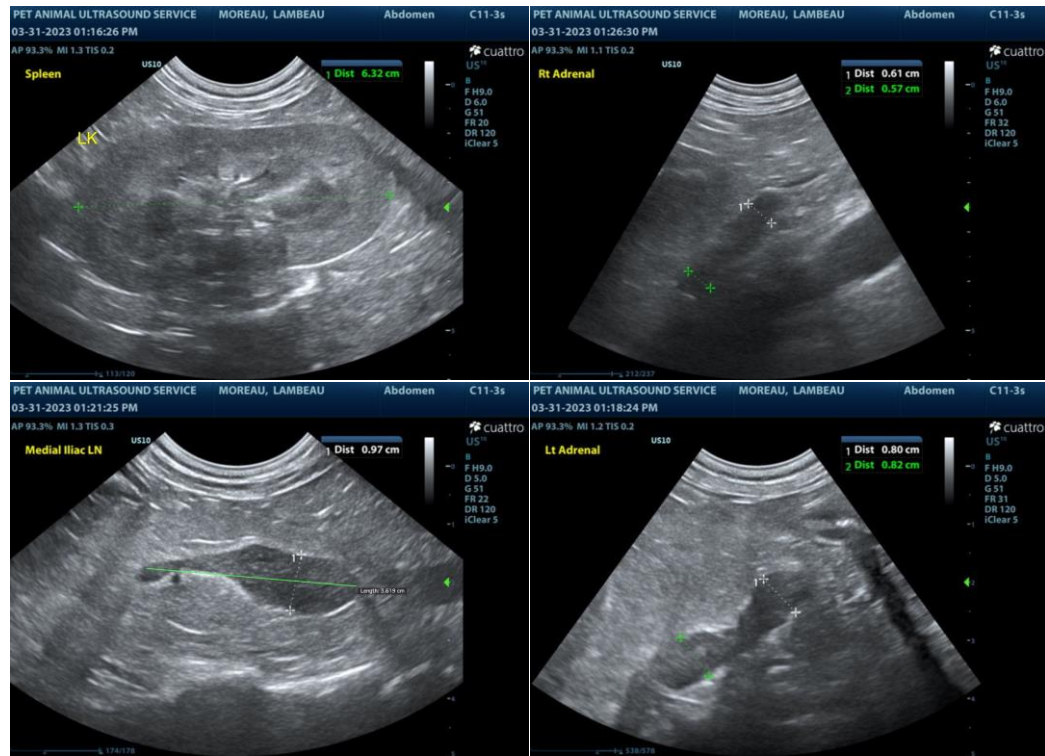
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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