



PATIENT PRESENTING CLINICAL SIGNS

Ruby Backlund "Ruby" Backlund is a 14yr 8mo old, F/S, Labrador Retriever mix weighing 56.6#. Ruby was seen on 7/28/21 for bloodwork screening and chest radiographs (met check) for oral mass and possible surgery. Bloodwork revealed elevated liver enzymes (ALT=329, ALP=320). Radiographs showed no metastatic process in thorax. Scan today is to further investigate elevation in liver enzymes. (lab results and radiology report attached)

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Lab Ret

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4.0 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

No evidence of pathology in the area of the aortic trifurcation.

AGE

14 Years

Normal size and margination was 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 6.4 cm in length. The right kidney measured 5.6 cm in length.

WEIGHT

56

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 0.63 cm width in the cranial pole and 0.79 cm width in the caudal pole. The right adrenal gland measured 0.74 cm width in the cranial pole and 0.85 cm width in the caudal pole.

INTERPRETED BY

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

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.

IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT

HOSPITAL NAME

Tahoe Integrative Care

Liver / Gallbladder

The liver was mildly enlarged in size. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. A solitary non-expansive uniformly echogenic parenchymal nodule was noted adjacent to the gallbladder measuring 1.3 cm in diameter. This nodule was most consistent with benign nodules such as nodular hyperplasia or small lipogranuloma. The hepatic and portal vasculature were normal in appearance without signs of congestion.

REFERRING VET

Dr Wendy Robinson

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The gallbladder was non distended in size with echogenic, nonmineralized, non-dependent biliary sludge. The biliary sludge was non organized with a hypoechoic to anechoic, irregular to interrupted rim visible between the nondependent sludge and inner wall. No signs of peripheral inflammation.

DATE

9-3-21

Gastrointestinal



PATIENT

Ruby Backlund

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

Lab Ret

The right pancreatic limb exhibited subtle prominent size with mildly echogenic to heterogeneous pancreas. This is suggestive of probable age related pancreatic changes and considered incidental. Potential for minor pancreatic fibrosis owing to previous inflammation or low grade chronic pancreatitis may be possible if elevated spec cpl or cranial abdominal discomfort on palpation.

SEX

FS

Free Abdomen

AGE

14 Years

A focal, mildly prominent to enlarged solitary medial iliac and intermittent mid abdominal mesenteric nodes were present. The lymph node was 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 2.1 x 0.46 cm. An example of a medial iliac lymph node measured 0.53 cm width.

No overt peritoneal effusion was present.

WEIGHT

56

ULTRASONOGRAPHIC FINDINGS

- Hepatopathy with minor parenchyma remodeling and subjective benign nodule
- Partial to emerging gallbladder mucocele.
- Bilateral mild chronic renal changes.
- Mildly hyperechoic to heterogeneous pancreas.
- Intermittent subjectively benign mesenteric and focal medial iliac lymph nodes - minor lymphoid hyperplasia or minor reactive mesenteric lymphadenitis likely, no overt evidence of neoplastic criteria.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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Hepatic FNA assuming normal clotting status, may be considered for screening cytology; however, no overt evidence of hepatic or intraabdominal metastasis or neoplasia. Hepatosupportive medications including ursodiol suggested with continued monitoring of hepatic enzymes or for evidence of increase in cholestasis.

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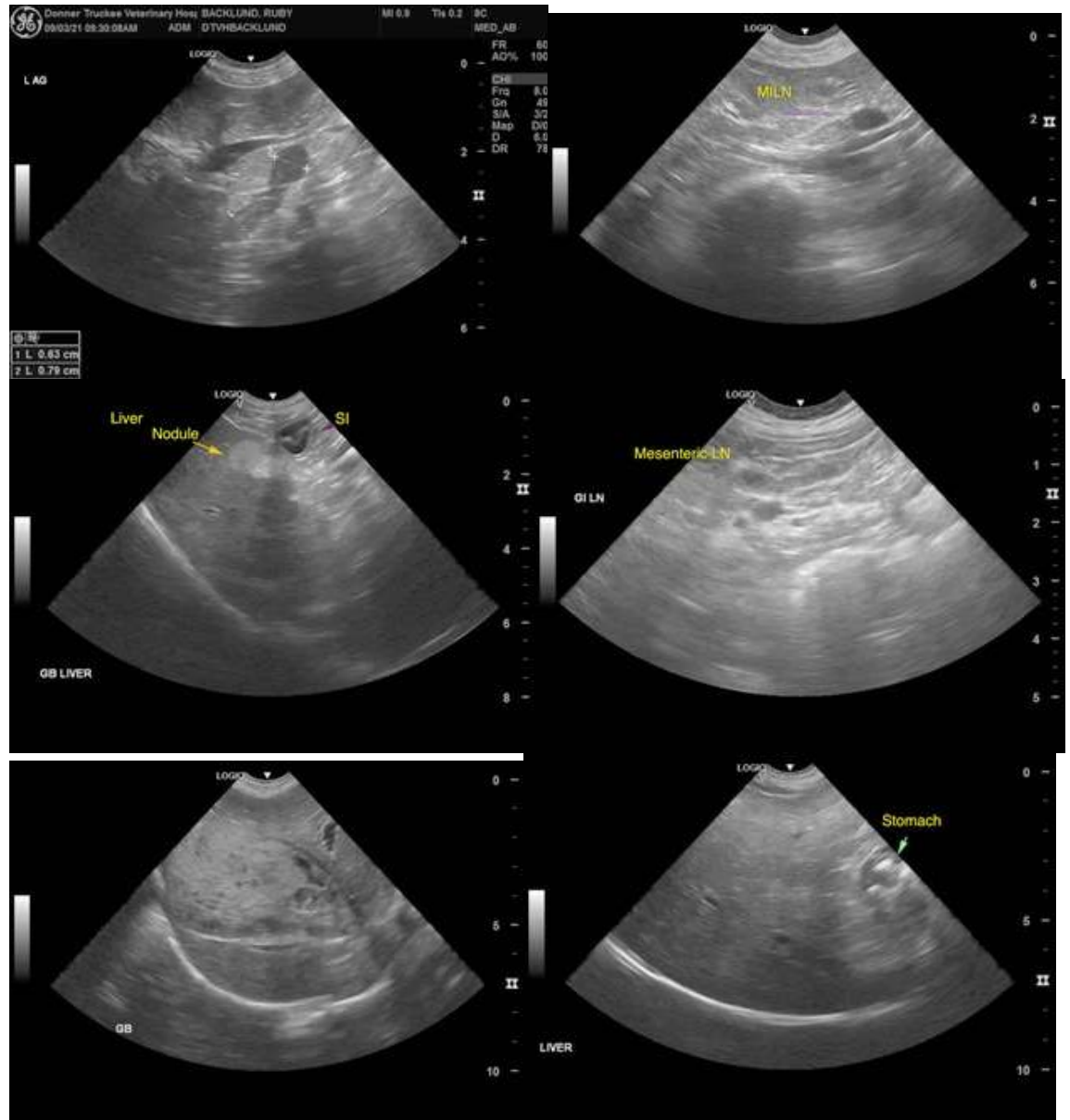
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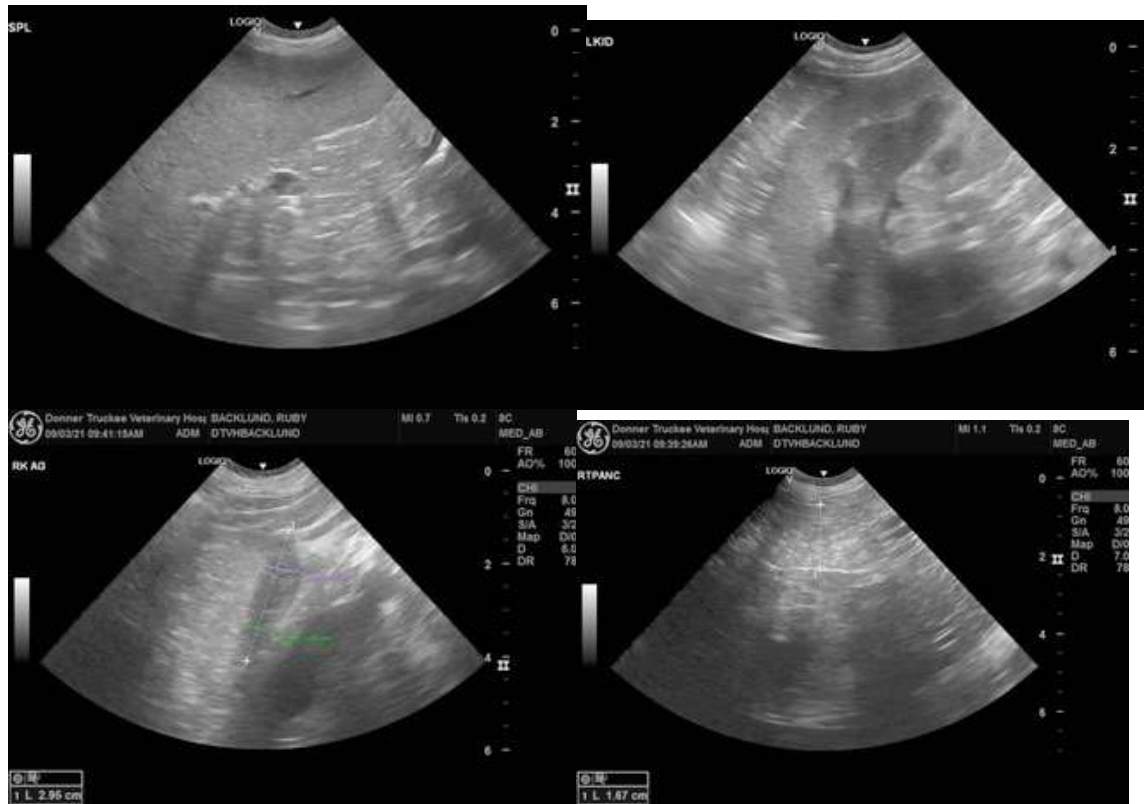
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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