



PATIENT

Bella Lundgren

SPECIES

Canine

BREED

Labrador Retriever

SEX

Spayed Female

AGE

10 Years

WEIGHT

90.5 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Pamela Harrigan, RDMS

HOSPITAL NAME

Chase VC

REFERRING VET

Catherine Caffarella,
BVSc

INVOICE

15741

DATE

5/23/22

PRESENTING CLINICAL SIGNS

History: Presented for removal of a large lipoma. Presurgical bloodwork showed elevated liver values. No clinical signs of liver disease. Started on Denamarin for liver support - recheck BW showed increasing values. Ws on generic form of Zyrtec/Cetirazine for allergies (discontinued in case this was the cause of elevation in liver values).? OK for surgery. *Sedated with dexdomitor for study

Abnormal PE/Chem/CBC/UA Results: ALT 742; ALP 689

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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.

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 7.3 cm in length. The right kidney measured 6.7 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 0.61 cm width at the caudal pole and 0.54 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 0.64 cm width at the caudal pole and 0.54 cm width at the cranial pole.

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.

Liver

The liver was mildly enlarged. Subtle areas of asymmetrical hepatic capsule contour noted. Normal overall hepatic parenchyma echogenicity, exhibiting moderate coarse echotexture, evidence of mild parenchymal remodeling and subjective mild increased yet indistinct portal vascular border markings. No masses or nodules noted.

The gallbladder was non distended in size with minimal luminal debris primarily in the gallbladder neck. The gallbladder walls were sonographically normal without evidence of inflammatory criteria. No evidence of peripheral gallbladder inflammation. The cystic duct and common bile ducts were normal without evidence of dilation.



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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.

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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.

BREED

Pancreas

Labrador Retriever

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.

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Free Abdomen

No omental masses, lymphadenopathy or peritoneal free fluid was present.

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ULTRASONOGRAPHIC FINDINGS

- Hepatopathy, exhibiting subjective chronic to acute on chronic criteria
- Sonographically unremarkable gallbladder/common bile duct
- Mild age-related kidneys

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall liver was nonspecific. Potential considerations may include reactive or vacuolar hepatopathy, inflammatory/immune mediated/infectious disease or other hepatopathy. Potential for infiltrative neoplasia cannot be definitively excluded.

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Assuming normal clotting status, ultrasound guided FNA of the liver warranted for screening cytology, primarily to assess for evidence of inflammatory cells with possible identification of inflammatory cell type if present, as well as assess for or rule out potential for neoplastic criteria. The addition of ursodiol to current Denamarin, due to its antioxidant and immunomodulatory effects within the liver may prove beneficial. Core or surgical biopsy of the liver is likely required for a definitive diagnosis. Hepatic functionality is likely normal, assuming normal albumin, glucose, BUN and cholesterol levels. No overt anesthetic contraindications if these parameters are normal. If clinical concern for hepatic dysfunction, fasting and postprandial bile acids may be considered prior to anesthetic considerations.

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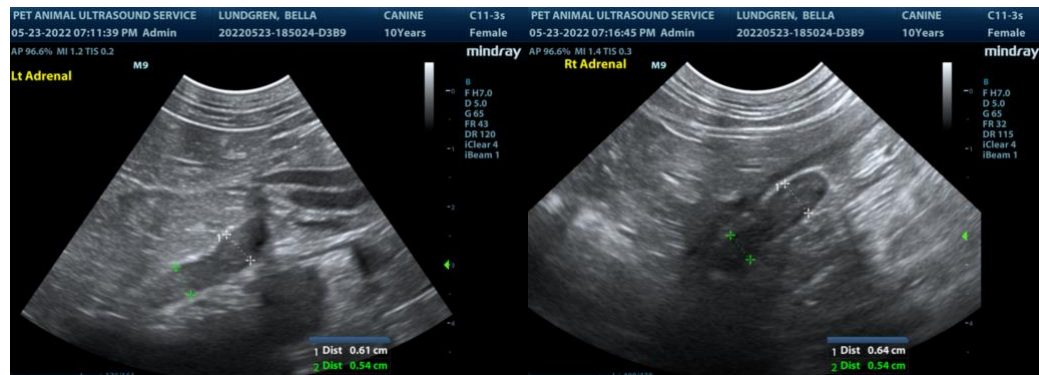
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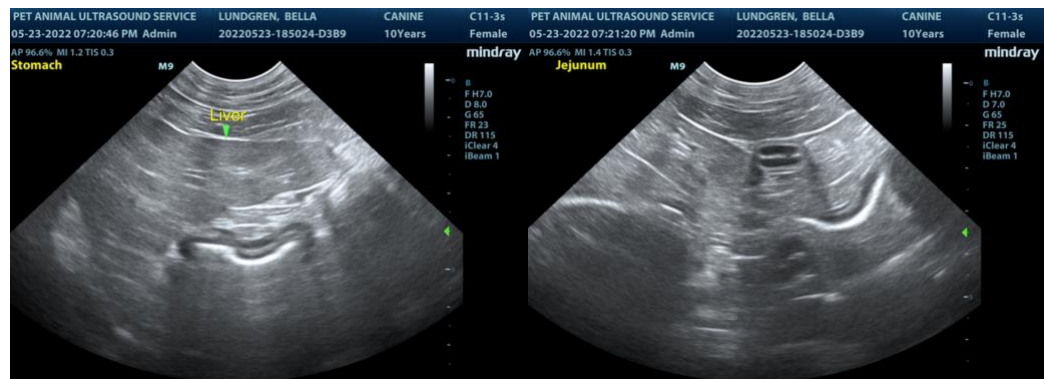
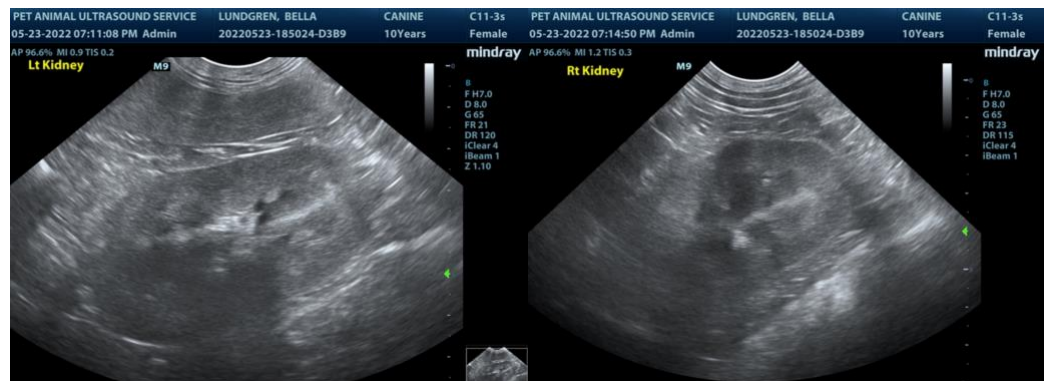
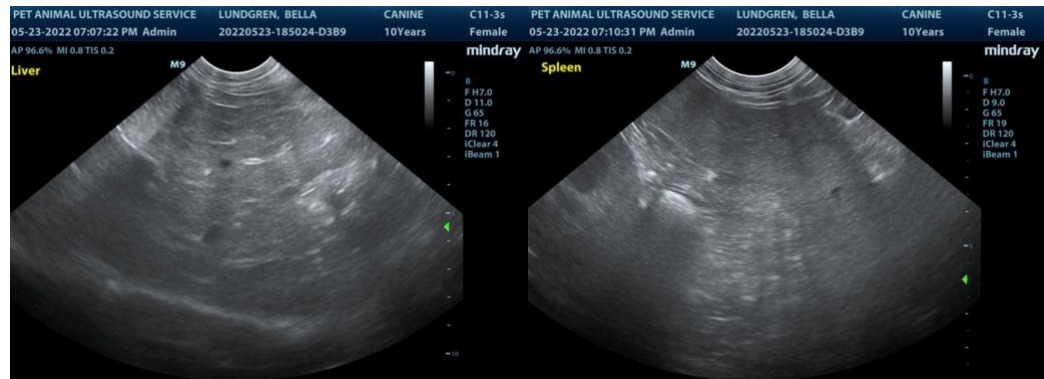
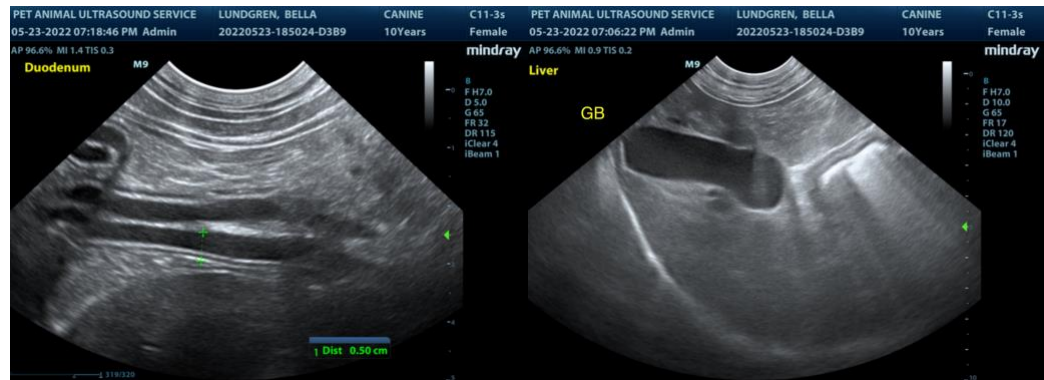
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



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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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info@SonoPath.com

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