



**PATIENT**

Luna Covey

**SPECIES**

Canine

**BREED**

Labrador Retriever

**SEX**

Female, spayed

**AGE**

8 Yrs. 10 months

**WEIGHT**

62.8 lbs.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(*Small Animal Internal  
Medicine*)

**IMAGING  
PERFORMED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(*Small Animal Internal  
Medicine*)

**HOSPITAL NAME**

Meadowlawn

**REFERRING VET**

Dr. Clemons

**INVOICE**

13312

**DATE**

11/5/25

**PRESENTING CLINICAL SIGNS**

Pt is asymptomatic but has an increasing ALP. Had an ultrasound with me in 2024 which showed changes suggestive of a vacuolar hepatopathy. ALP is currently slightly >1,000.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder wall is normal in thickness and the mucosal surface is smooth. The bladder is moderately distended. Luminal contents are mostly anechoic. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of >4 cm, are normal.

The left kidney is normal in size (6.50 cm in length) with a normal shape, architecture and smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney is normal in size (6.76 cm in length) with a normal shape, architecture and smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

**Adrenal Glands**

The left adrenal gland is normal in size (0.83 cm at cranial pole) (0.62 cm at caudal pole) with a normal shape and homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

The right adrenal gland is normal in size (1.14 cm at cranial pole) (0.55 cm at caudal pole) with a normal shape and homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

**Spleen**

The spleen is normal in size (2.02 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. Several varying sized irregular hyperechoic nodules are observed throughout the organ, one of the nodules measuring 1.4 cm in its longest dimension. Splenic vasculature is normal.

**Liver**

The liver is normal to slightly prominent in size with smooth peripheral contours. The parenchyma is isoechoic relative to the spleen and diffusely homogeneous in appearance. No distinct focal lesions are observed. Vascular and biliary tracts are of normal volume with no evidence of congestion. The portal vein to caudal vena cava ratio is approximately 1:1.

The gall bladder lumen is moderately distended. The wall is thin and smooth. A moderate amount of aggregated, echogenic, gravity-dependent debris/sludge is observed within the lumen. The cystic and common bile ducts are normal/not seen.

**Gastrointestinal**



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The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall is normal in thickness with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The ileocecolic junction and colonic wall are normal. There is no evidence of an obstructive pattern.

**Pancreas**

The right limb of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely isoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated. There is no evidence of peripancreatic inflammation or effusion.

**Lymph nodes**

The abdominal lymph nodes are normal/not visible.

**Free Abdomen**

The peritoneal cavity is normal. There is no evidence of inflammation or effusion.

**Other**

A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass.

**ULTRASONOGRAPHIC FINDINGS**

**Primary Findings:**

- The diffuse hepatic changes are most consistent with vacuolar hepatopathy (i.e., endocrine, idiopathic) with a lower possibility of inflammatory disease, infiltrative neoplasia, or other hepatopathy. Changes are similar to the previous sonogram.
- Gallbladder debris/sludge, non-mucocele.

**Secondary Findings:**

- Minor pancreatic parenchymal remodeling in the right limb.
- Hyperechoic splenic nodules are most consistent with benign meylolipomas with a lower possibility of more insidious splenic pathology.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Continued serial monitoring (i.e., every 3-4 months) of the patient's liver values is recommended. If values continue to increase and/or if the patient becomes ill, a recheck ultrasound should be considered.



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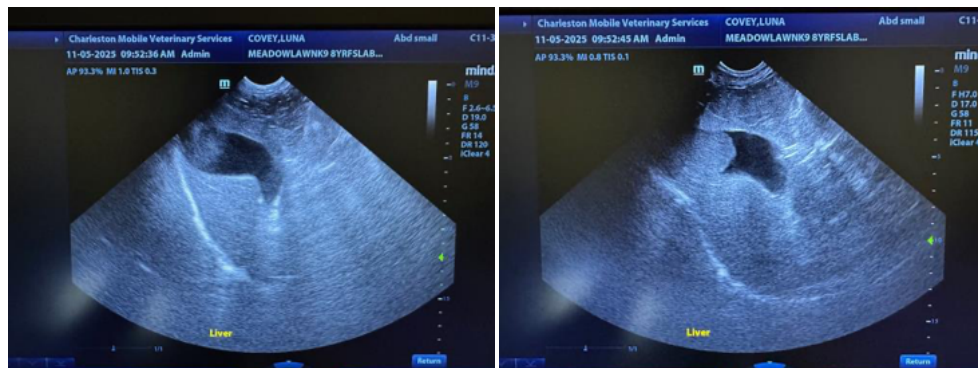
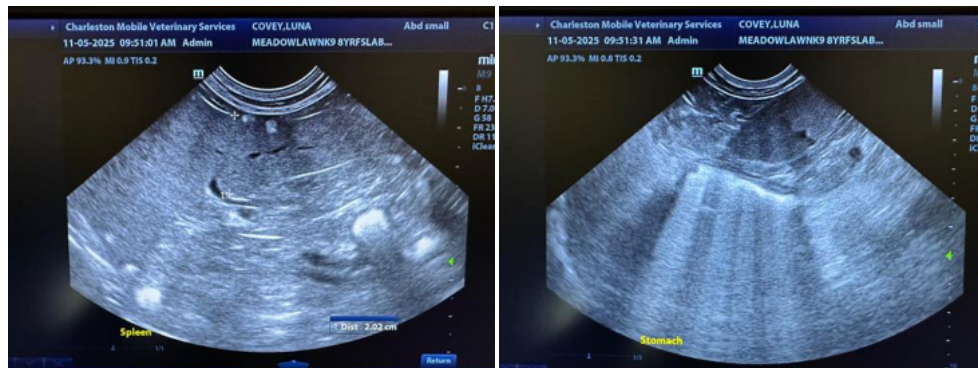
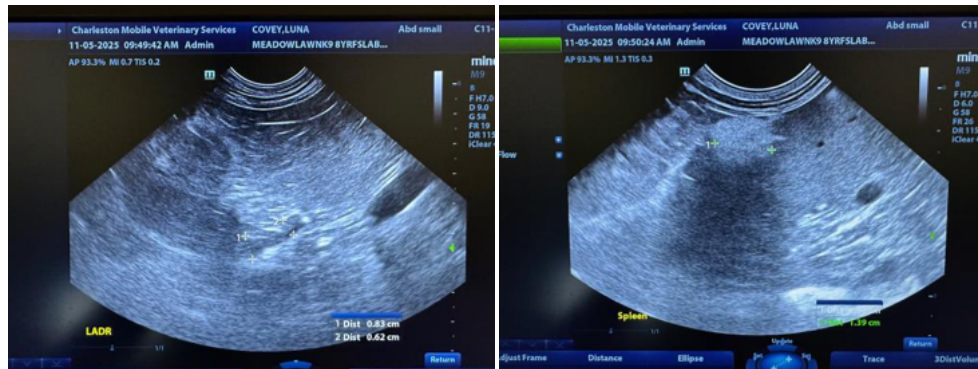
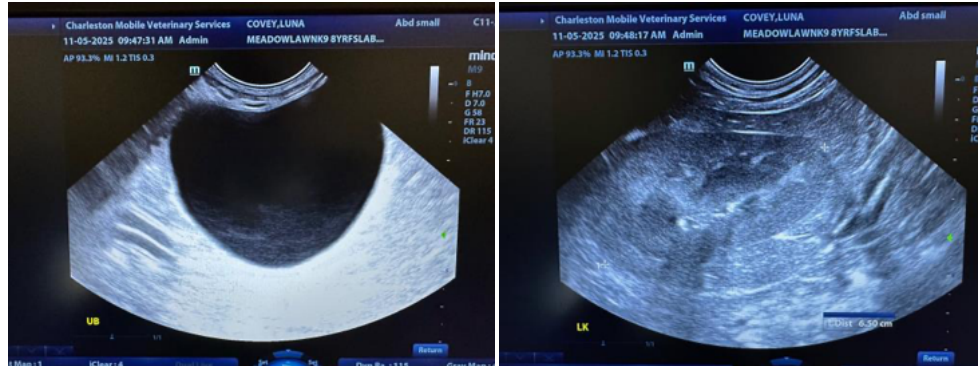
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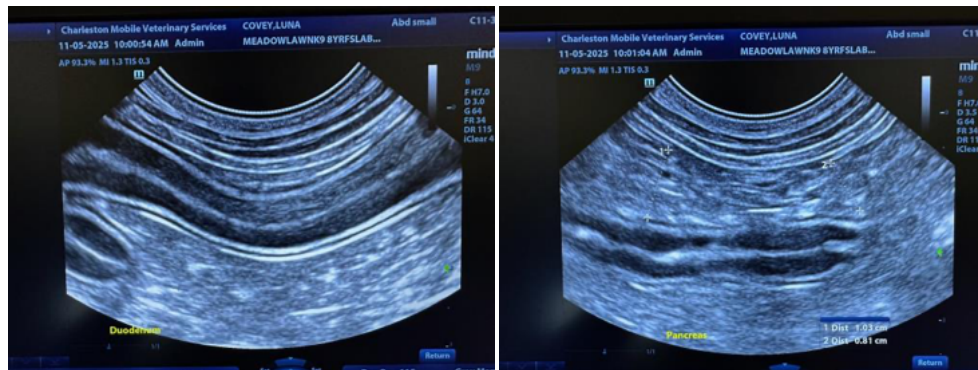
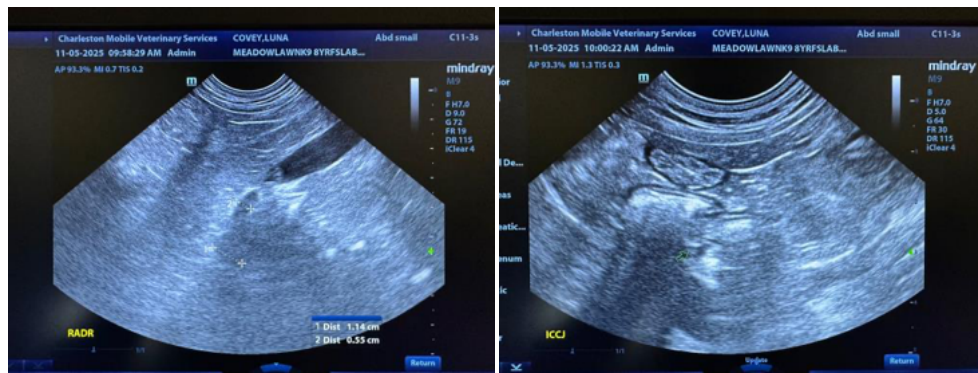
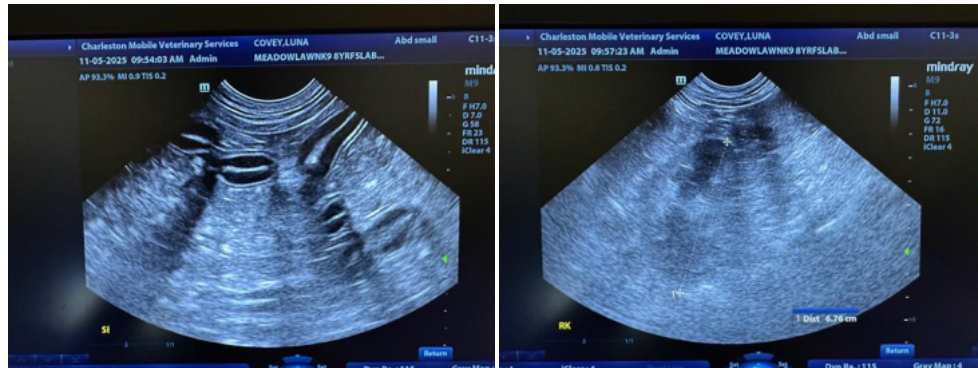
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)  
[info@SonoPath.com](mailto:info@SonoPath.com)