



PATIENT

Maddie Westerduin

SPECIES

Canine

BREED

Labrador Retriever X

SEX

Spayed Female

AGE

13 Years

WEIGHT

65.5 Pounds

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Vazquez

HOSPITAL NAME

Glen Rock VH

REFERRING VET

Dr. Scott Stekler

INVOICE

41870

DATE

10/6/22

PRESENTING CLINICAL SIGNS

10 day period of decreased appetite, PU/PD, blood in diarrhea. Current med: None.
Abnormal PE/Chem/CBC/UA Results: Abnormal values - ALT 144, Alk.Phos. 2,254.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

The left kidney has a normal shape and size (5.6 cm) with mild pyelectasia at 0.23 cm. Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney has a normal shape and size (5.69 cm). Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

The left adrenal gland is normal in size measuring 0.91 cm at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

The right adrenal gland is normal in size measuring 0.71 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

Spleen

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

Liver

The liver is large in size, and normal in echogenicity with smooth peripheral margins. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. There is a isoechoic solid mass effect visualized from the right side of the abdomen measuring 5.4 cm x 5.57 cm.

The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. There is a moderate amount of non-organized echogenic debris. The cystic and common bile ducts are normal/not visible.

Gastrointestinal

The stomach contains minimal luminal contents. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.



PATIENT	The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (between 0.3-0.5cm in wall thickness) and the jejunum measured as normal (between 0.2-0.47cm.)
Maddie Westerduin	Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.
SPECIES	
Canine	The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with nonformed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.
BREED	
Labrador Retriever X	Pancreas The pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.
SEX	
Spayed Female	Free Abdomen Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.
AGE	
13 Years	
WEIGHT	
65.5 Pounds	<ul style="list-style-type: none"> Large, heterogeneous liver with isoechoic solid mass effect – The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, nodular hyperplasia, inflammatory/immune-mediated disease, fibrosis, extramedullary hematopoiesis, toxic hepatopathy (e.g., copper), infiltrative neoplasia (less likely) or other hepatopathy. The mass effect visualized is most consistent with a primary hepatic mass lesion and could represent a benign or neoplastic lesion. Decreased corticomedullary distinction in both kidneys with left-sided mild pyelectasia – The bilateral renal findings are consistent with age-related change. Pyelectasia of the kidney(s) could be consistent with pyelonephritis, chronic renal disease, secondary to PU/PD or fluid therapy (if applicable), other.
INTERPRETED BY	
Kathleen Sennello DVM, MS, Diplomate ACVIM (Small Animal Internal Medicine)	
IMAGING PERFORMED BY	
Kelly Vazquez	
HOSPITAL NAME	
Glen Rock VH	
REFERRING VET	
Dr. Scott Stekler	<p>Recommend three view thoracic radiographs to evaluate for possible concurrent thoracic disease/involvement.</p> <p>The mass lesion could be contributing to the ALP elevation. There is also the possibility of a primary hepatopathy. These are recommendations for a primary ALP elevation:</p> <ul style="list-style-type: none"> Induction phenomena are the most common cause for an elevation in ALP. These are systemic illnesses that 'turn on' the liver enzyme. Causes of this include Cushing's disease, dental disease, arthritis, and numerous others. In many cases the exact cause is unclear but as long as ultrasound and bile acids tests are normal most patients do not have progressive changes in their liver. While liver biopsy is not routinely performed, vacuolar hepatopathy, is noted on most biopsies. This is often non-progressive but in rare cases can be more severe and lead to liver failure.
INVOICE	
41870	
DATE	
10/6/22	

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



PATIENT

Maddie Westerduin

- If signs of cushings disease are present recommend endocrine function testing to evaluate for cushings disease.

SPECIES

Canine

- Consider fine needle aspirate to rule out round cell neoplasia -if this is a concern.
- If a cause for the ALP elevation is not identified: I recommend recheck general blood work every 6 months, ultrasound once per year, and bile acids test every 1-2 years based on other results. If the ALP continues to climb a biopsy could be considered.

BREED

Labrador Retriever X

- Consider long term use of denamarin, and monitoring for the signs of cushings developing.

SEX

Spayed Female

- A primary vacuolar hepatopathy can be breed related and is seen in Scottish Terriers, Schnauzers, Cocker spaniels etc..

AGE

13 Years

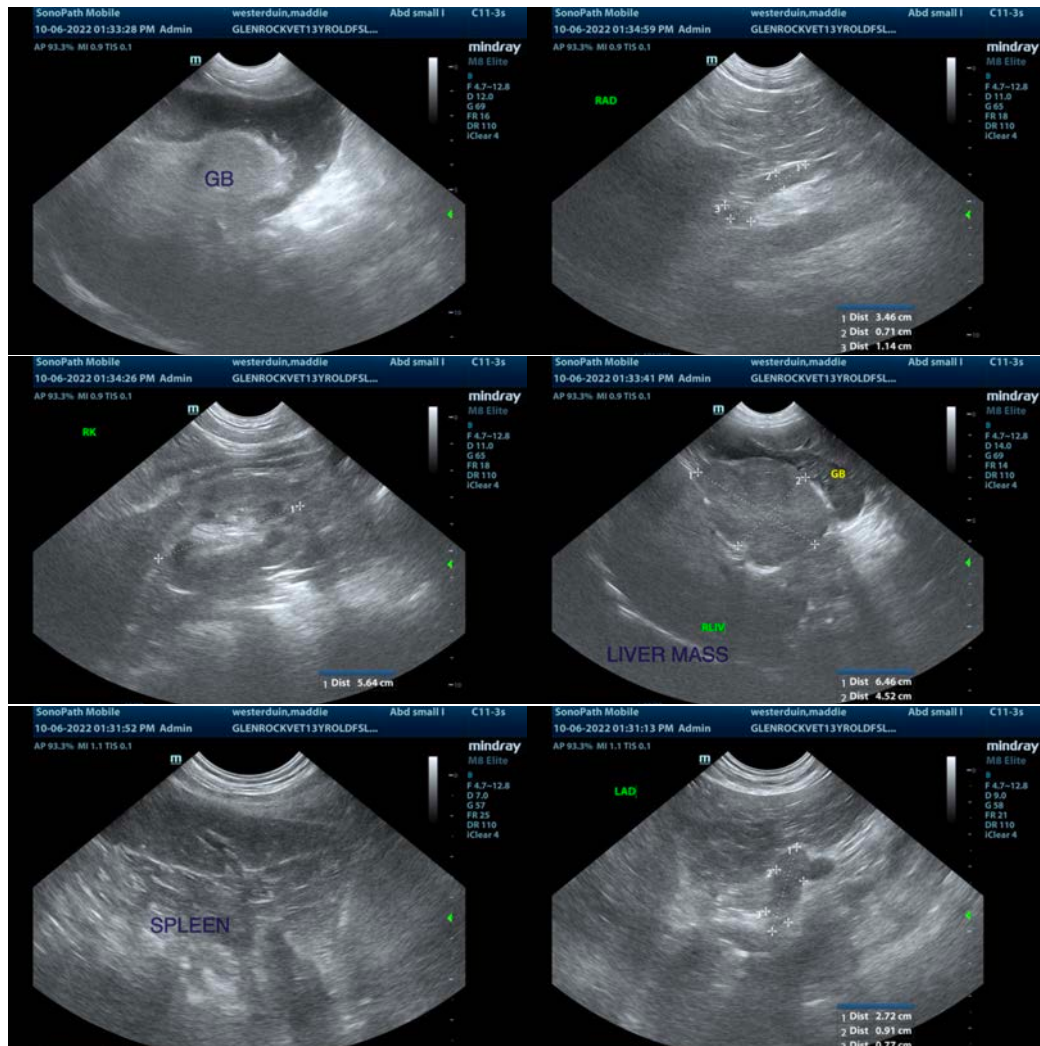
Given the PU/PD reported, a urinalysis, culture, liver function test, and screening for Cushing's disease could be considered, although the hepatic mass lesion complicates interpretation of these test results.

WEIGHT

65.5 Pounds

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)



IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Glen Rock VH

REFERRING VET

Dr. Scott Stekler

INVOICE

41870

DATE

10/6/22



PATIENT

Maddie Westerduin

SPECIES

Canine

BREED

Labrador Retriever X

SEX

Spayed Female

AGE

13 Years

WEIGHT

65.5 Pounds

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Vazquez

HOSPITAL NAME

Glen Rock VH

REFERRING VET

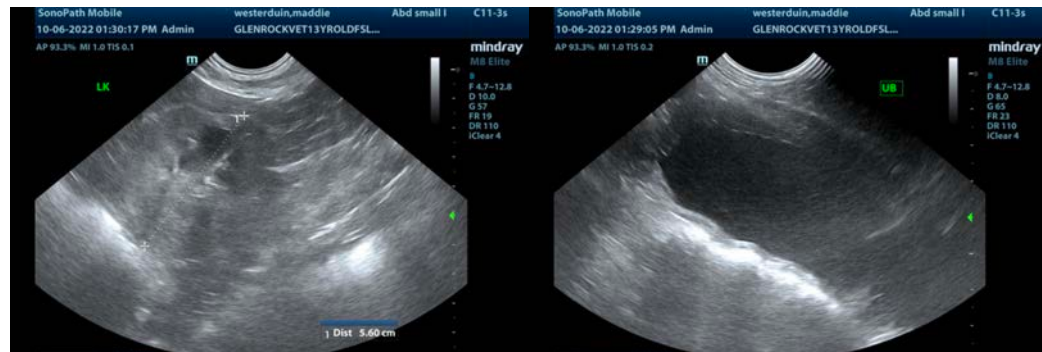
Dr. Scott Stekler

INVOICE

41870

DATE

10/6/22



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.

Kathleen Sennello DVM,MS, Diplomate ACVIM (Small animal Internal Medicine)

kathleen.sennello@sonopath.com