



PATIENT

Casper Werthheimer

SPECIES

Canine

BREED

Labradoodle

SEX

Neutered Male

AGE

10 years

WEIGHT

34.95 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

**IMAGING
PERFORMED BY**

Denise Bruno, LVT,
RDMS

HOSPITAL NAME

Brooklyn Heights

REFERRING VET

Dr. Thomson

INVOICE

16223

DATE

6/21/22

PRESENTING CLINICAL SIGNS

History: Diarrhea, lethargy. History of splenic mass. History of increased ALT - hepatitis - chronic Evaluate for Gastro enteritis vs other previous AUS + labs attached

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. No calculi or masses were noted. Slight micropolypoid changes were noted. This is a frequent finding in older animals and may be linked to a history of chronic urinary tract infection or active urinary tract infection. Urinalysis would be recommended with culture if any evidence of inflammatory sediment is present. The region of the trigone and visible pelvic urethra were normal. This is a minor change.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some minor age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 6.32 cm. The left kidney measured 6.12 cm. A small cortical cyst was noted.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 3.19 cm x 0.89 cm at the caudal pole and 0.82 cm at the cranial pole. The left adrenal gland measured 2.19 cm x 0.78 cm at the caudal pole and 0.56 cm at the cranial pole. Slight heterogeneous changes were noted at the caudal pole of the left adrenal gland, appears to be reduced compared to the prior sonogram.

Spleen

The **spleen** revealed a larger expansive nodule, measuring 1.4 cm x 1.81 cm and mild cavitation. A separate nodule was noted, measuring 8.0 mm.

Liver

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia. This is a minor change.

Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.



PATIENT

Casper Werthheimer

SPECIES

Canine

BREED

Labradoodle

SEX

Neutered Male

AGE

10 years

WEIGHT

34.95 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Denise Bruno, LVT,
RDMS

HOSPITAL NAME

Brooklyn Heights

REFERRING VET

Dr. Thomson

INVOICE

16223

DATE

6/21/22

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

ULTRASONOGRAPHIC FINDINGS

Primary Findings

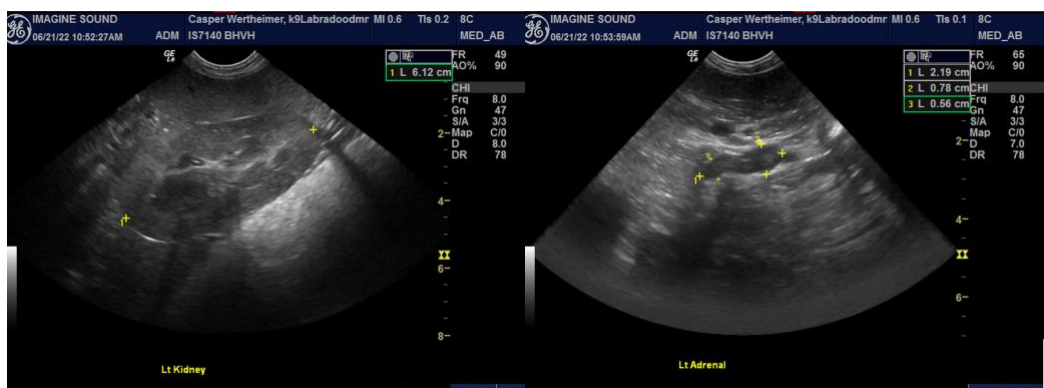
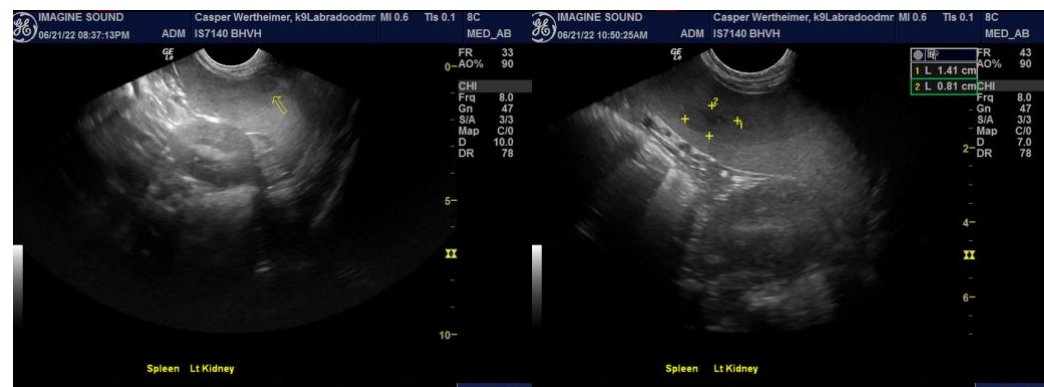
- Slightly progressive splenic nodules, likely benign given the patient history
- Slight heterogeneous left adrenal gland
- Benign vacuolar hepatopathy liver pattern

Secondary Findings

- Age-related renal changes with small cortical cyst and minor remodeling
- Age-related urinary bladder changes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend CBC path review with anemia. If overtly anemia develops, then bone marrow aspirate would be indicated. FNA of the splenic nodules could be considered yet these are likely unrelated. However, the spleen, especially the larger nodules, should be continually monitored, as it does have some minor cavitation. Proactive splenectomy could be considered, however, may not be related directly to the current clinical status. The cause of diarrhea and lethargy is unclear. Given the ALT elevations, FNA of the liver could also be considered as an option. GI support, possible diet change and coverage for parasites all indicated.





PATIENT

Casper Werthheimer

SPECIES

Canine

BREED

Labradoodle

SEX

Neutered Male

AGE

10 years

WEIGHT

34.95 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Denise Bruno, LVT,
RDMS

HOSPITAL NAME

Brooklyn Heights

REFERRING VET

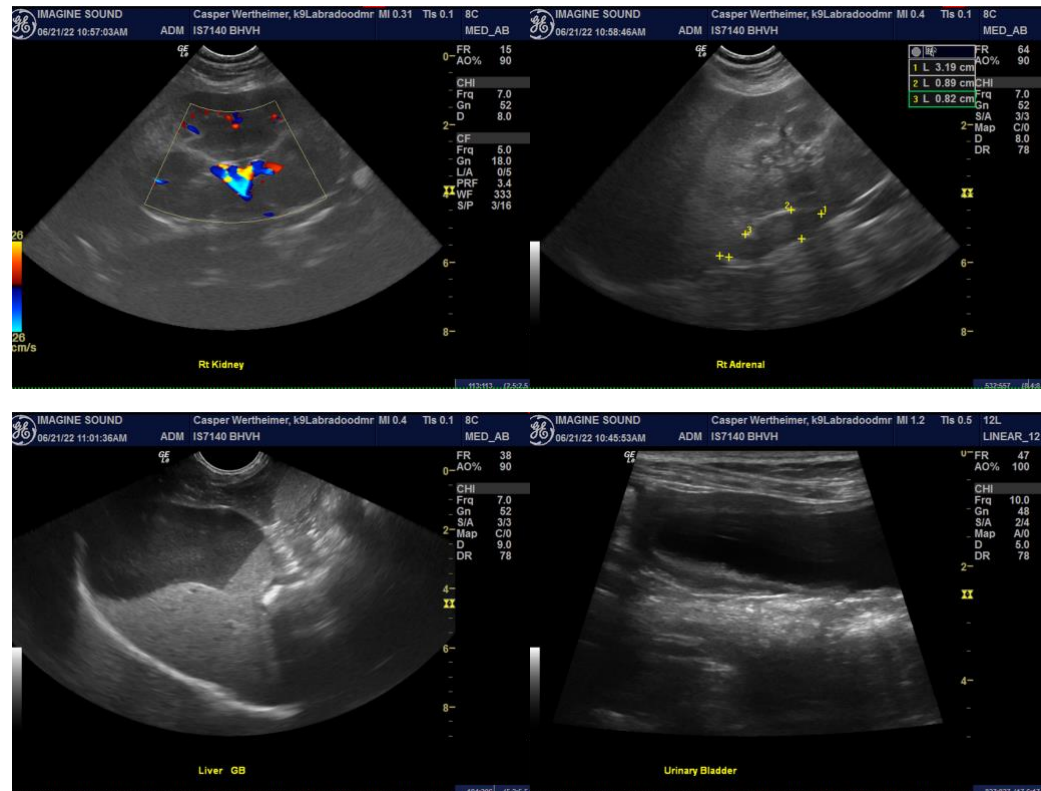
Dr. Thomson

INVOICE

16223

DATE

6/21/22



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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
Eric.Lindquist@SonoPath.com