



PATIENT

Luna Brahn

SPECIES

Canine

BREED

Shep/Beagle Mix

SEX

Spayed Female

AGE

12 Years 4 Months

WEIGHT

54.2 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

M. Kermendy, CVT

HOSPITAL NAME

Wauwatosa Vet

REFERRING VET

Elaine Binor, DVM

INVOICE

16727

DATE

8/5/22

PRESENTING CLINICAL SIGNS

History: History of chronic URI/rhinitis since 2016 off and on. Now sneezing and hyporexic. Has mucopurulent discharge present on physical exam 7/18/22. History of hepatic nodules found on AUS. Treated with gabapentin for abdominal pain and doxycycline. Imaging of chest and abdomen performed to check pulmonary status and hepatic nodule status.

Abnormal PE/Chem/CBC/UA Results: CBC/Chem/T4/cPL indicated mild anemia, neutrophilia ALT=156 (10-125) AlkPhos=694 (23-212) Amylase=1619 (500-1500) Globulin=4.7 (2.5-4.5) BUN=31 (7-27) Calcium=12.1 (7.9-12.0)

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized, and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some moderate 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. Mineralization was present in the kidneys. Occasional cortical cysts were present in the kidneys. The right kidney measured 5.53 cm. The left kidney measured 6.59 cm.

Adrenal Glands

The **left adrenal gland** was 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 left adrenal gland measured 1.9 cm x 0.58 cm at the caudal pole and 0.39 cm at the cranial pole.

The **right adrenal gland** was not visualized.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted. Cranial folding of the spleen was noted.

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some mild age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. **See **Pancreas** section.



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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.

Pancreas

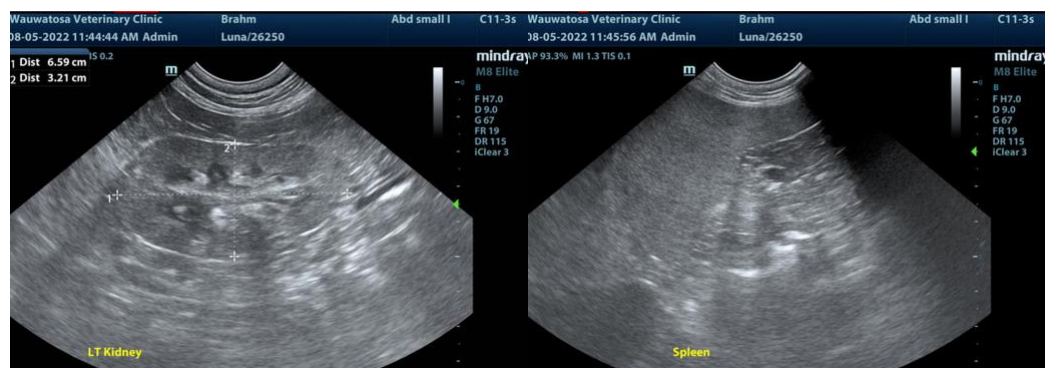
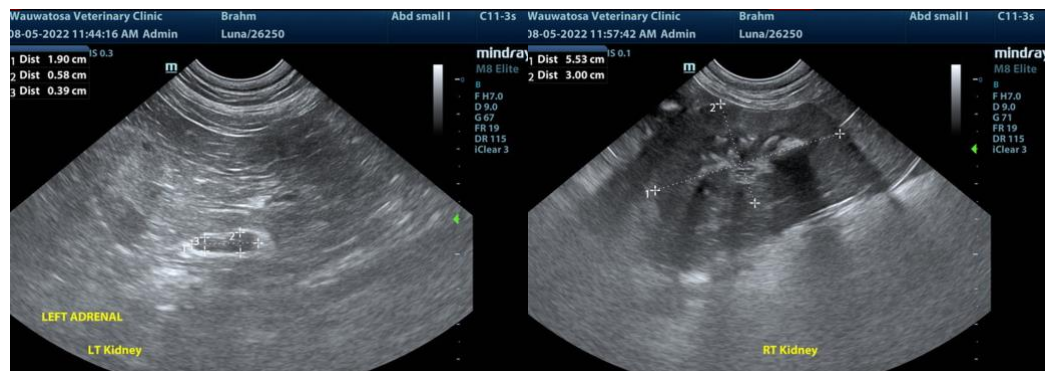
The right liver or right limb of the **pancreas** revealed a 3.0 cm mixed echogenic cyst or abscess. Regional inflammatory pattern was noted around the structure. Ultrasound guided FNA and drainage recommended.

ULTRASONOGRAPHIC FINDINGS

- Moderate degenerative renal changes with nonobstructive nephrolithiasis
- Right liver or right limb pancreatic cyst or abscess
- Splenic fold
- Age-related abdominal changes otherwise

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Power doppler assessment of the liver or pancreatic cyst or abscess is recommended to assess for vascularization followed by ultrasound guided drainage, cytology and culture would be indicated. The cyst or abscess appears potentially resectable. It appears to be occupying the right hepatic region. Cannot completely rule out right adrenal origin from the lesion, as I could not definitively see the right adrenal gland. CT evaluation would be ideal. Prognosis is guarded, depending upon further diagnostics.





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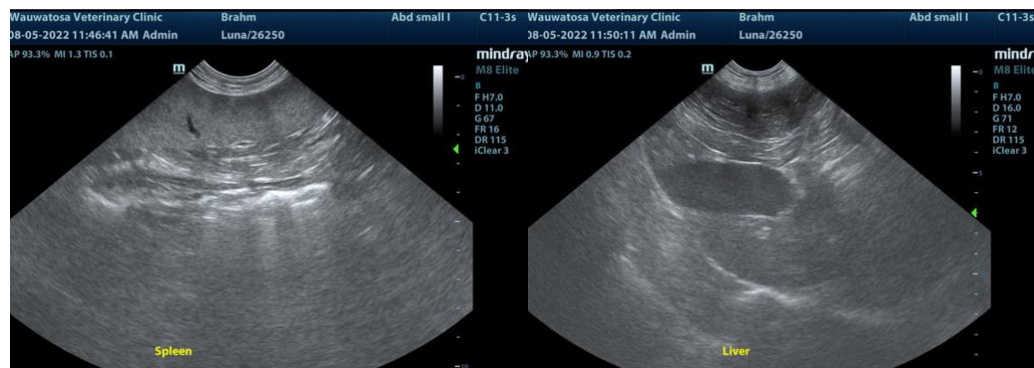
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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