



PATIENT

Wario Bubbio Ng

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered male

AGE

11 years

WEIGHT

19 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Animal General on Hudson

REFERRING VET

Dr. Ng

INVOICE

31343

DATE

6/29/22

PRESENTING CLINICAL SIGNS

History: Some lethargy, grunting occasionally. No current meds.
Abnormal PE/Chem/CBC/UA Results: Glucose 57, chol 334.

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. Bladder calculus was noted and measured 0.43 cm with a minimal amount of urine. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The residual prostate was uniform and measured 0.9 cm.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex. The capsules were acceptably uniform without significant irregularities. Non-obstructive pinpoint mineralization was noted. The right kidney measured 3.84 cm. The left kidney measured 4.0 cm with slight pyelectasia that measured 0.8 x 0.5 cm and pelvic calculi in the left kidney. The largest calculus measured 0.2 cm. An anechoic cyst was noted in the dorsal cortex of the left kidney and measured 0.74 cm.

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 left adrenal gland measured 1.37 x 0.34 cm at the caudal pole and 0.26 cm at the cranial pole.

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 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 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. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.



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Gastrointestinal

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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.

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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.

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ULTRASONOGRAPHIC FINDINGS

Geriatric abdomen with renal mineralization.

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Mild to moderate degenerative renal changes and bladder calculus.

Minor, residual renal pyelectasia was noted.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient may have recently passed calculus. Full urinary work-up is warranted. Eventual cystotomy is recommended. However, the calculus is fairly small and may dissolve on its own. Therefore, surgery should eventually be performed and sonogram should be performed just prior to surgery to ensure that there is persistence of the calculus.

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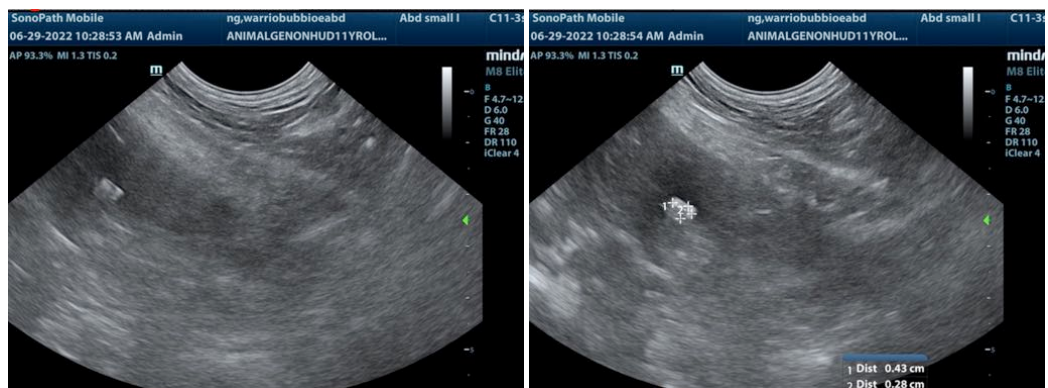
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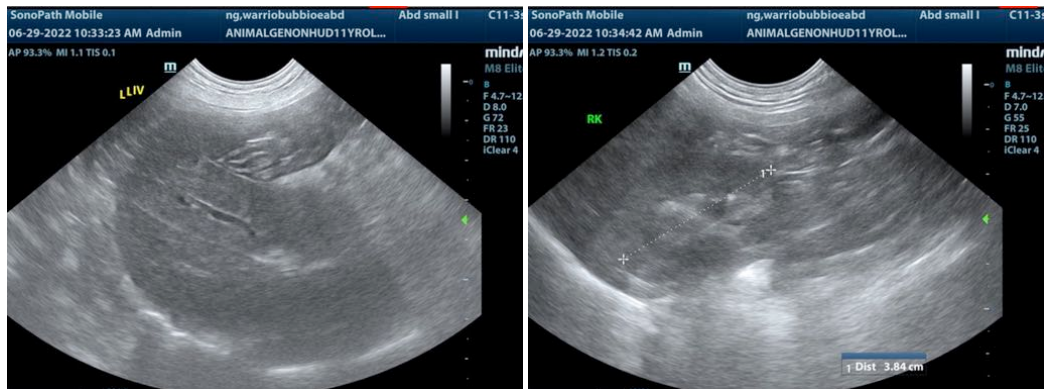
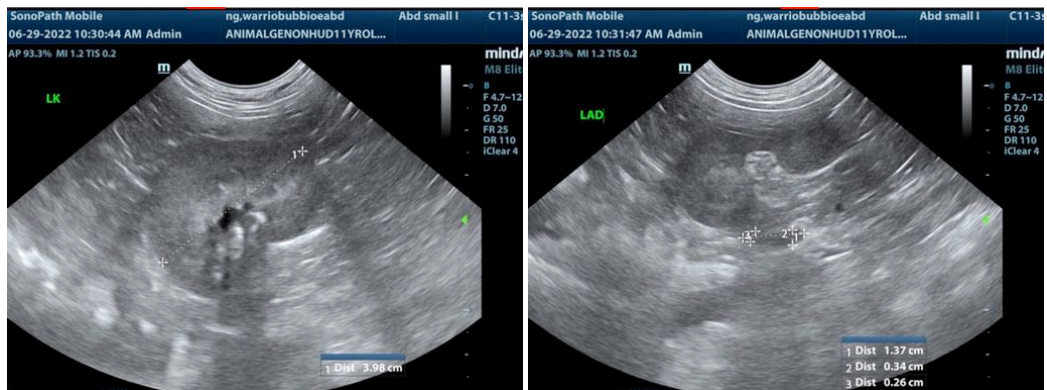
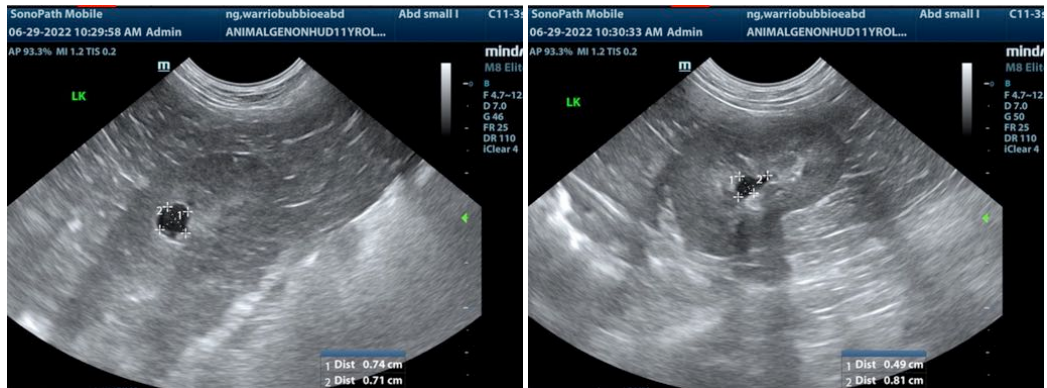
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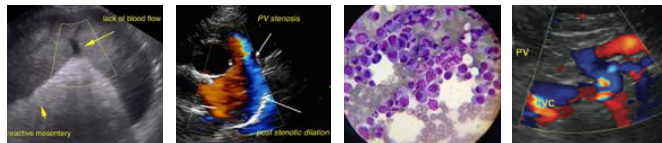
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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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