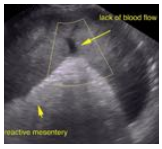
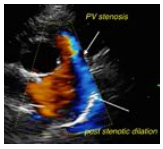
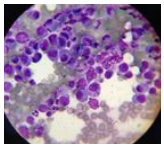
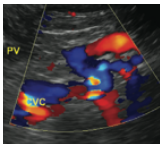
SonoPath
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT
Wario Ng

SPECIES
Canine

BREED
Shih Tzu

SEX
Neutered male

AGE
12 years

WEIGHT
18.5 lbs

INTERPRETED BY
Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY
Jessica Miller, RDMS

HOSPITAL NAME
Animal General Hudson

REFERRING VET
Dr. Ng

INVOICE
46746

DATE
8/23/23

PRESENTING CLINICAL SIGNS

History: Grade 2/6 systolic murmur. Recheck calculi bladder, Recheck liver / kidney. Current meds: adequan
Abnormal PE/Chem/CBC/UA Results: ALP 206

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. Small calculi were noted and non-obstructive. Grouping of calculi measured 0.5 cm, the largest calculus measured 0.2 cm. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

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. The right kidney measured 4.7 cm. The cranial pole of the left kidney revealed 0.97 cm anechoic cyst. Pyelectasia and pelvic nephrolith was noted in the left kidney. The left kidney measured 4.2 cm with a nephrolith that measured 0.2 cm. The patient is likely passing calculi periodically from the kidneys to the bladder.

Adrenal Glands

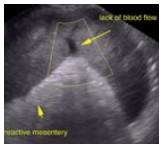
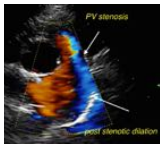
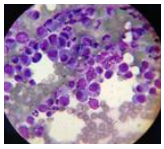
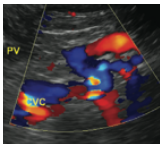
Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 1.6 x 0.85 cm at the cranial pole and 0.44 cm at the caudal pole. The left adrenal gland measured 1.55 x 0.68 cm at the caudal pole and 0.57 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,

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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.

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 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.

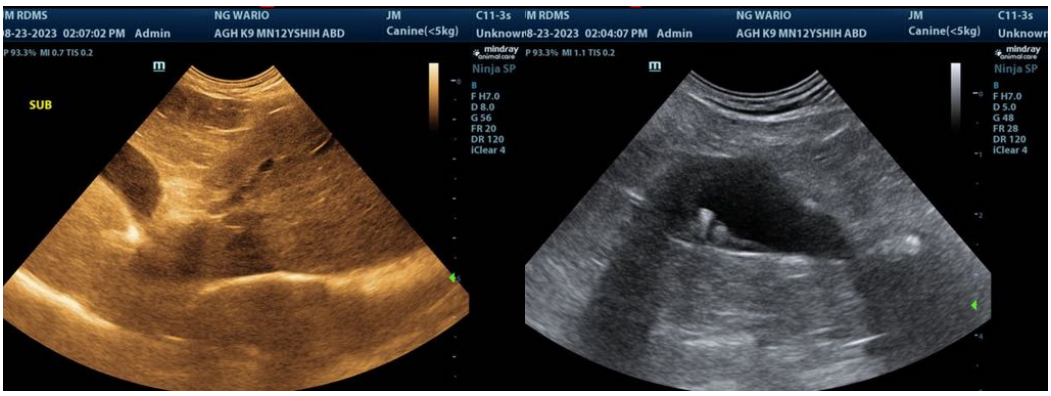
ULTRASONOGRAPHIC FINDINGS

Small bladder calculi.

Mild, non-obstructive pelvic nephrolithiasis. Similar to prior ultrasound.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The calculus noted on the prior sonogram has been replaced with small calculi. Medical management or surgical intervention could be justified in this patient. However, the calculi appear to be non-obstructive at the time of the sonogram.



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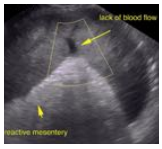
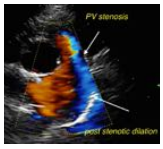
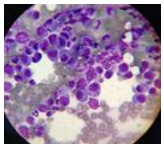
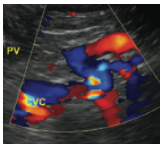

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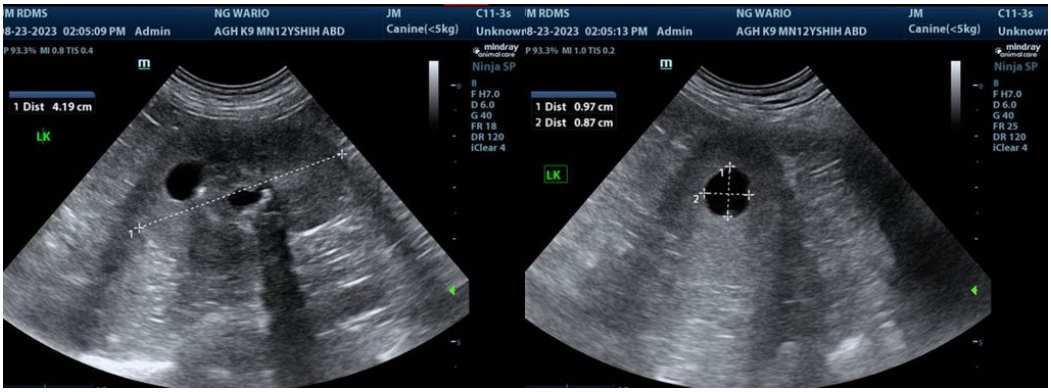

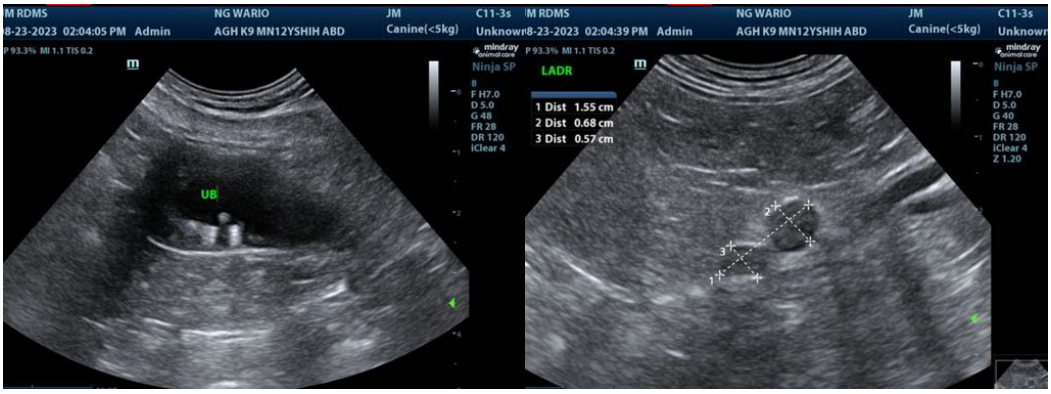

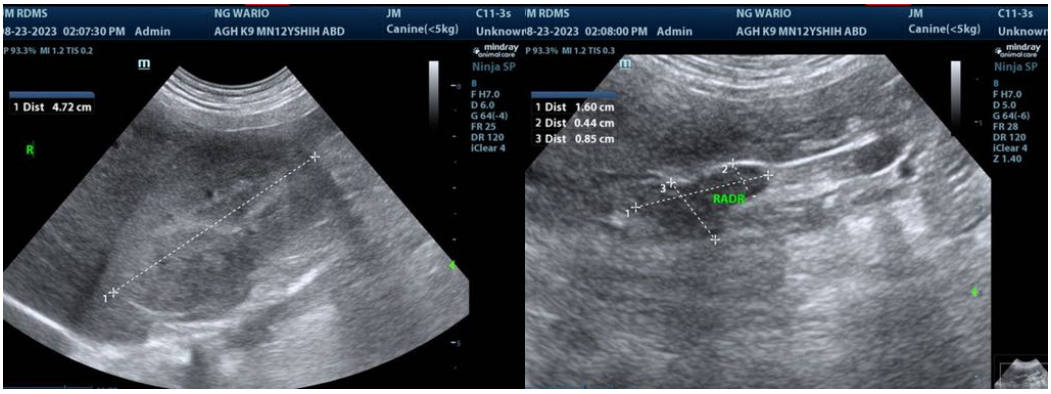

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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