



PATIENT

Wario Ng

SPECIES

Canine

BREED

Shih Tzu

SEX

MN

AGE

12 year old

WEIGHT

18 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Animal General on
Hudson

REFERRING VET

Dr. Vivian Ng

INVOICE

16481

DATE

3/29/23

PRESENTING CLINICAL SIGNS

Patient presents with history of grade 2/6 heart murmur, not clinical. History of pyelactasia and urolith. Currently on W/D diet. No medications.

Abnormal PE/Chem/CBC/UA Results: Bloods and U/A pending.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic urinary bladder criteria was noted. Persistent small, previously noted, dependent, nonobstructive calculus measuring 0.57 cm in diameter was present.

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 1.0 cm in diameter.

The area of the aortic trifurcation was free of pathology.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild to moderate loss of corticomedullary symmetry and definition expected for the age of the patient. Previously noted left kidney cortical cyst measuring 0.97 cm in diameter was present. Pinpoint to focal areas of bilateral medullary mineral were noted. Subjective static left kidney pyelectasia was present with no evidence of left ureter dilation. The left kidney measured 4.2 cm in length. The right kidney measured 4.1 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 1.5 cm length x 0.5 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 1.7 cm length x 0.50 cm width at the caudal pole.

Spleen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease.

Liver/ Gallbladder

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance



PATIENT

Wario Ng

without signs of congestion. The gallbladder was non-distended in size with primarily anechoic content and mild nonorganized echogenic gallbladder debris. No evidence of gallbladder inflammatory criteria was noted. The cystic and common bile ducts were normal.

SPECIES

Canine

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained echogenic, nonshadowing ingesta, sonographically consistent with food and without signs of obstruction or foreign material. The ingesta is suggestive of recent meal ingestion.

BREED

Shih Tzu

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material.

SEX

MN

Normal visible colon wall layers were present with apparent formed feces in lumen.

AGE

12 year old

Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum, consistent with age-related pancreatic changes and incidental. No signs of active inflammation or neoplasia.

WEIGHT

18 lbs.

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

ULTRASONOGRAPHIC FINDINGS

- Small persistent urinary bladder calculus
- Static moderate chronic renal changes with bilateral mild medullary mineral, left kidney cortical cyst, and left kidney pyelectasia
- Mild hepatic parenchymal remodeling
- Mild gallbladder debris (non-mucocele)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Animal General on
Hudson

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Dr. Vivian Ng

Overall static presentation compared to the previous ultrasound with largely geriatric abdominal changes and no evidence of significant visceral pathology was noted. Correlation with pending lab work and urinalysis is suggested. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered if clinically indicated.

INVOICE

16481

DATE

3/29/23



PATIENT

Wario Ng

SPECIES

Canine

BREED

Shih Tzu

SEX

MN

AGE

12 year old

WEIGHT

18 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Animal General on
Hudson

REFERRING VET

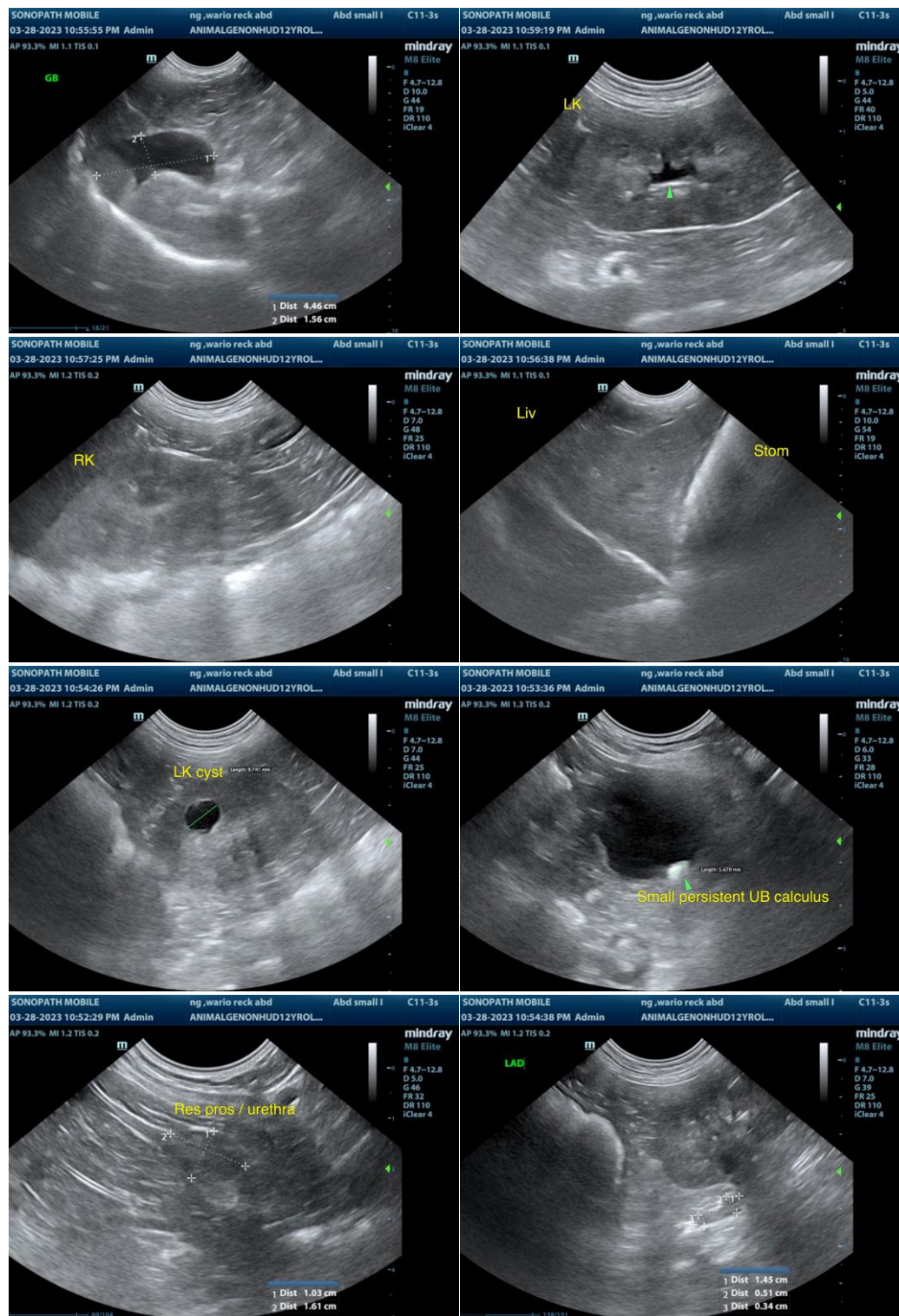
Dr. Vivian Ng

INVOICE

16481

DATE

3/29/23



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.



PATIENT

Wario Ng

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.

SPECIES

Canine

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

BREED

Shih Tzu

SEX

MN

AGE

12 year old

WEIGHT

18 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

**IMAGING
PERFORMED BY**

Kelly Vazquez

HOSPITAL NAME

Animal General on
Hudson

REFERRING VET

Dr. Vivian Ng

INVOICE

16481

DATE

3/29/23