



PATIENT

Sunny Fly Away Home

PRESENTING CLINICAL SIGNS

History: Increased BUN, slight spinal inflammation, lethargy.
Abnormal PE/Chem/CBC/UA Results: Elevated BUN

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shih Tzu

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 was noted. Ureteral papillae were normal.

SEX

Intact male

The prostate was uniform and measured 1.55 cm.

AGE

8 years

The **kidneys** presented a relatively uniform cortical hyperechogenicity when compared to the renal medulla, spleen and liver. No overt masses were noted. Corticomedullary definition was nebulous and the ratio favored the cortex slightly. The ureters were not visible and assumed to be normal. These changes are most consistent with chronic interstitial nephritis yet infiltrative disease could not be entirely ruled out without biopsy though neoplasia is not suspected. Idiopathic, hyperechoic, medullary rim sign was noted. The right kidney measured 3.83 cm. The left kidney measured 3.85 cm with slight pinpoint mineralization noted. Blood flow to the kidneys appears to be adequate.

WEIGHT

6 lbs

Adrenal Glands

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 1.21 x 0.87 cm at the cranial pole and 0.5 cm at the caudal pole. The left adrenal gland measured 1.61 x 0.46 cm at the cranial pole and 0.38 cm at the caudal pole.

IMAGING PERFORMED BY

Shari Reffi, CVT

Spleen

HOSPITAL NAME

Rockaway AH

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.

REFERRING VET

Dr. Maniar

Liver

INVOICE

47807

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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Gastrointestinal

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Examination of the **gastrointestinal tract** revealed thickened gastric wall measuring up to 0.7 cm. The stomach and small intestine had normal structure. There were minor areas of luminal fluid noted. There was no evidence of obstructive pattern. Curvilinear patterns were retained throughout the gastrointestinal tract. Areas of hyperperistalsis were noted. This is consistent with response to irritation. The colon was unremarkable. The mesenteric lymph nodes are reactive.

SPECIES

Canine

BREED

Pancreas

Shih Tzu

The **pancreas** is prominent and hypoechoic, primarily in the left limb measuring 2.0 cm.

SEX

Intact male

ULTRASONOGRAPHIC FINDINGS

Gastritis/gastroenteritis.

AGE

8 years

Chronic interstitial nephrosis renal pattern.

Reactive mesenteric lymph nodes.

WEIGHT

6 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Tick borne disease panel is indicated. Fecal exam is recommended in this patient. I am concerned about long term viability of the kidneys in this patient. IV fluid support and GI protectants are indicated. Reassessment of the clinical status and azotemia is recommended.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Rockaway AH

REFERRING VET

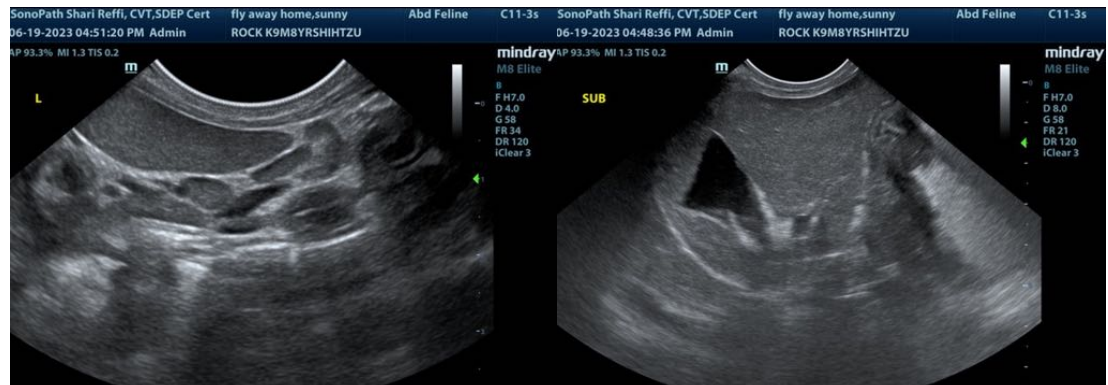
Dr. Maniar

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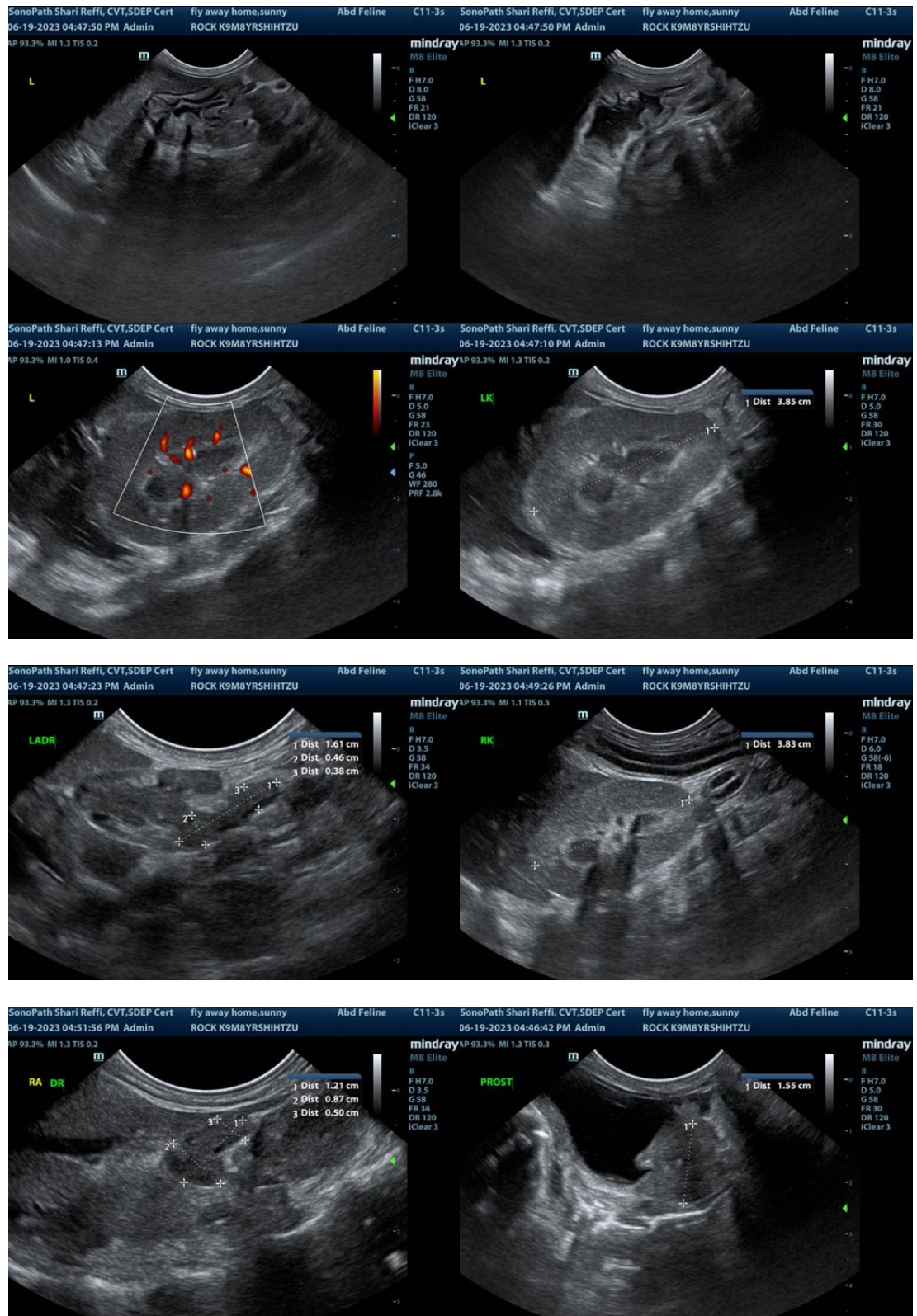
Dr. Maniar

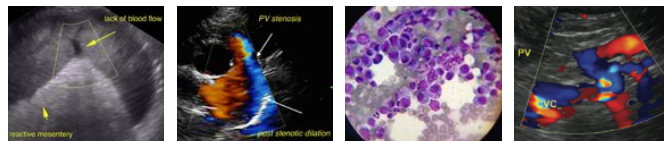
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PATIENT

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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.

SPECIES

Canine

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.

BREED

Shih Tzu

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

SEX

Intact male

AGE

8 years

WEIGHT

6 lbs

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