



PATIENT **PRESENTING CLINICAL SIGNS**

Crissy Komrska

History: Asymptomatic dog, bloodwork done June 26, 2023 found azotemia and elevated ALT, started Denosyl 90mg once daily. No change in bloodwork after 1 month July 20, 2023 but dog more agitated and anxious at night with worsening anxiety.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: June 26, 2023 exam moderate periodontal disease, BUN 31 (7-27), ALT 398 (10-125). July 20, 2023 BUN 47 (7-27), ALT 360 (10-125). August 3, 2023 CBC normal. Chemistry BUN stable 31 (7-27), SDMA and creatinine normal. ALT 303 (10-125), AST 69 (0-50), Cholesterol 343 (110-320). Urinalysis USG 1.025, pH 6, inactive sediment.

BREED

Shih Tzu

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Female

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. Small, non-obstructive sand/calculi were noted. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

AGE

9 years

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some 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. Non-obstructive mineralization was noted. The left kidney measured 2.96 cm. Blood flow to the kidneys was subnormal.

WEIGHT

9.2 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 1.3 x 0.39 cm at the caudal pole and 0.25 cm at the cranial pole. The right adrenal gland measured 1.39 x 0.3 cm at the cranial pole and 0.49 cm at the caudal pole.

IMAGING PERFORMED BY

Dr. Brenner

Spleen

HOSPITAL NAME

Riverside Animal
Center

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. Brenner

Liver

INVOICE

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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 calculi and polyps were noted, yet not pathological.

DATE

8/3/23



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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

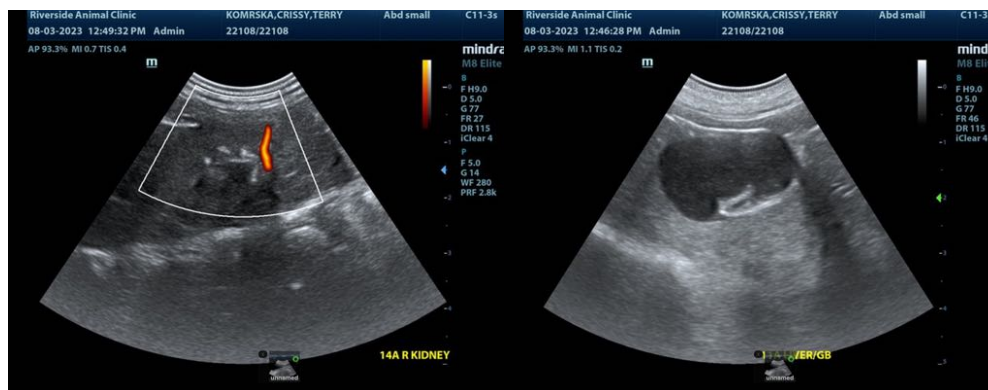
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

ULTRASONOGRAPHIC FINDINGS

Mild to moderate degenerative renal changes with non-obstructive reno nephrolithiasis with minor gallbladder calculi and polyps.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient likely passed calculi periodically in the recent history causing the current clinical status. 72-hour IV fluid protocol is warranted to correct any azotemia. Blood pressure measurements are recommended. Renal oriented diet is warranted.





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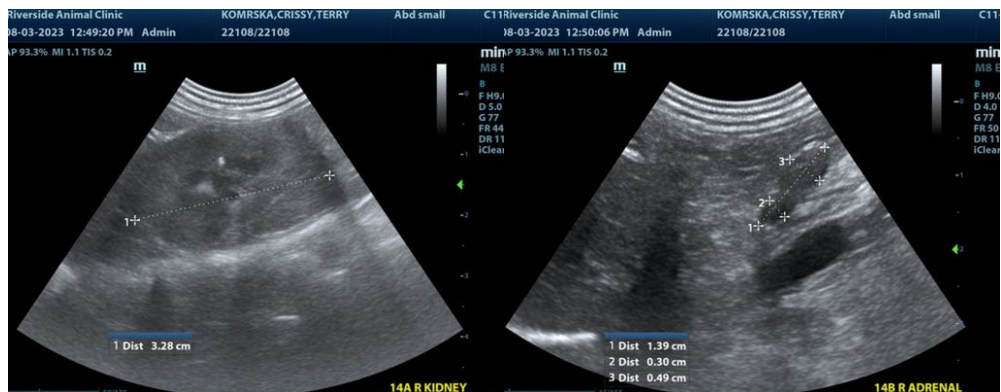
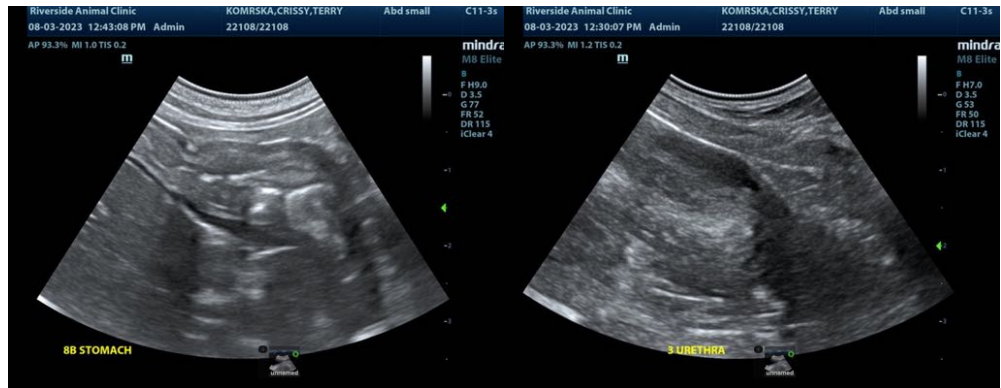
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PATIENT

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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

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