

**PATIENT**

Tori Hansrote

**SPECIES**

Canine

**BREED**

Labrador Retriever

**SEX**

FS

**AGE**

8y

**WEIGHT**

21.8 kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Erin Wicks

**HOSPITAL NAME**

Shores Veterinary  
Emergency Center

**REFERRING VET**

Dr. Miller

**INVOICE**

11078ag

**DATE**

07/10/2022

**PRESENTING CLINICAL SIGNS**

several months history pollakiuria/ difficulty urinating

Abnormal PE/Chem/CBC/UA Results

UA- (3+) blood, (3+) protein; cellular casts; sp g 1040;

blood work declined

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder was subnormal in size owing to lack of urine volume. Full evaluation of the urinary bladder walls was limited owing to lack of urine distention yet subjectively mildly thickened bladder wall primarily in the ventroapical and dorsal bladder wall was present. The trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Minimal anechoic urine was present in the lumen with moderate particulate sediment and mild dependent to potentially adhered areas of mineral. The ureteral papillae were normal. The ureters were not visible which is normal. The urinary bladder wall measure 0.44 cm in width.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 6.1 cm in length. The right kidney measured 6.2 cm in length.

The area of the aortic trifurcation was free of pathology.

The area of the uterine remnant was free of pathology.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.66 cm width at the caudal pole and 0.46 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.52 cm width at the caudal pole.

**Spleen**

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

**Liver**

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**Gastrointestinal**



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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

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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.

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

## BREED

Labrador Retriever

### Pancreas

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

## SEX

FS

### Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

## AGE

8y

## ULTRASONOGRAPHIC FINDINGS

- Cystitis with moderate nondependent sediment and dependent, possibly adhered mineral
- Normal bilateral kidneys
- Normal abdomen otherwise

## WEIGHT

21.8 kg

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Urine C/S on sterile sample is recommended if not done. Tx for cystitis including urinary diet is warranted. Cystotomy with UB flush +/- urinary bladder biopsies may be indicated if clinical signs persist / progress. No evidence of neoplastic UB criteria.

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## REFERRING VET

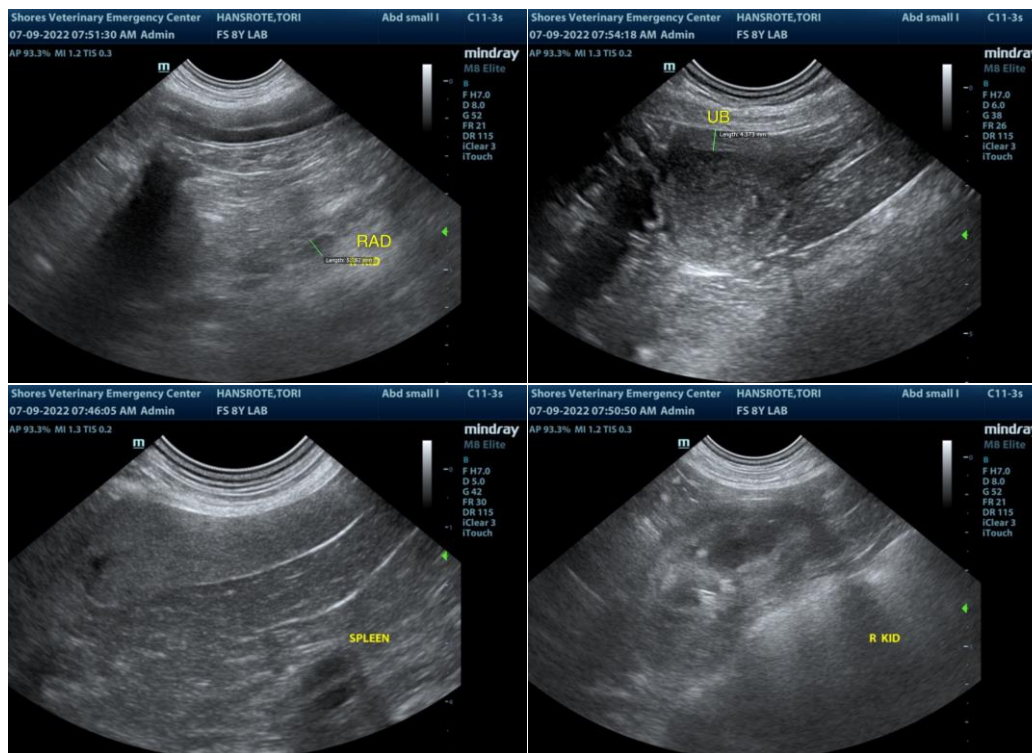
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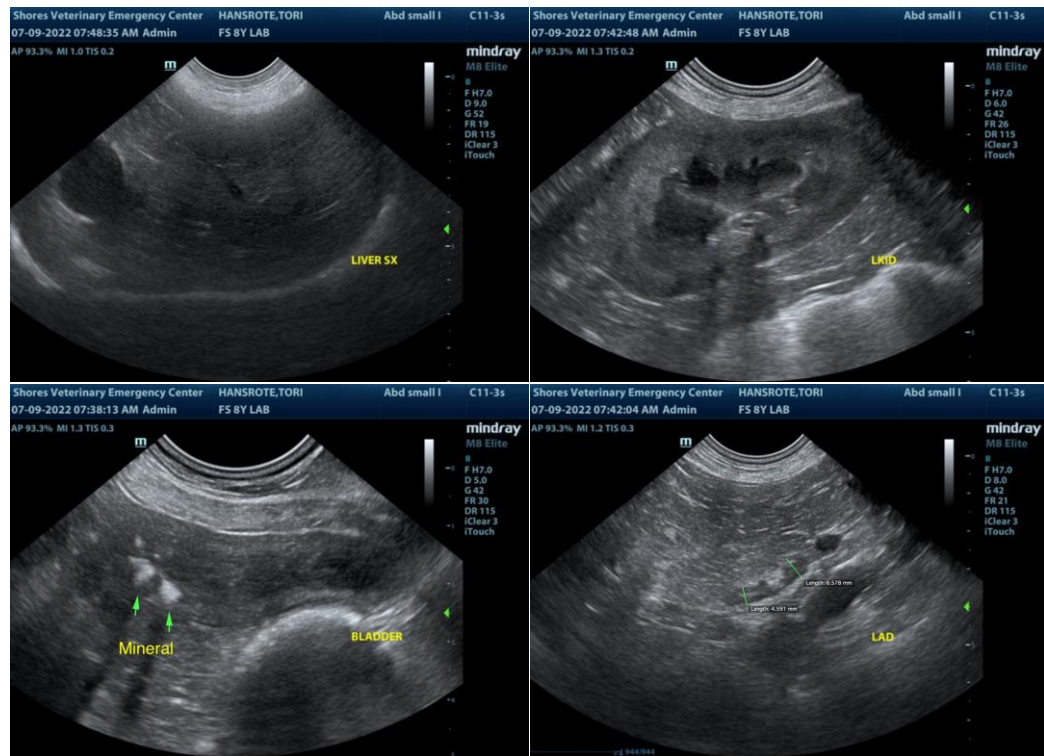
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@SonoPath.com