

## PATIENT

Tyler Mandoza

## PRESENTING CLINICAL SIGNS

Trouble urinating

## SPECIES

Canine

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The **urinary bladder** itself was unremarkable. The prostate measured 4.3 cm. Striating parenchymal changes noted, consistent with prostatitis. The pre-prostatic urethra was unremarkable. The post-prostatic urethra revealed a 5.0 mm calculus embedded in the post-prostatic urethra, localized approximately 1.5 cm caudal from the prostate, likely lodged in the urethral flexure.

## BREED

Shih Tzu

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 and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 4.62 cm. The left kidney measured 4.54 cm.

## SEX

Intact Male

## AGE

2018

### 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 1.85 cm x 0.46 cm at the caudal pole and 0.42 cm at the cranial pole. The left adrenal gland measured 1.86 cm x 0.55 cm at the caudal pole and 0.44 cm at the cranial pole.

## WEIGHT

18 Pounds

### 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 were noted.

## INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert IVUSS

### Liver

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.

## IMAGING PERFORMED BY

Denise Bruno, LVT,  
RDMS

## HOSPITAL NAME

Mobile Vet Unit

## REFERRING VET

Dr. Nachamie

### 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.

## INVOICE

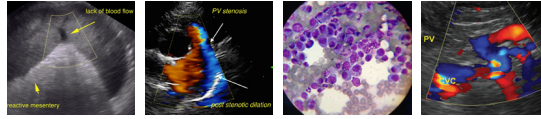
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### Pancreas

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.

## DATE

4/12/22



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**DATE**

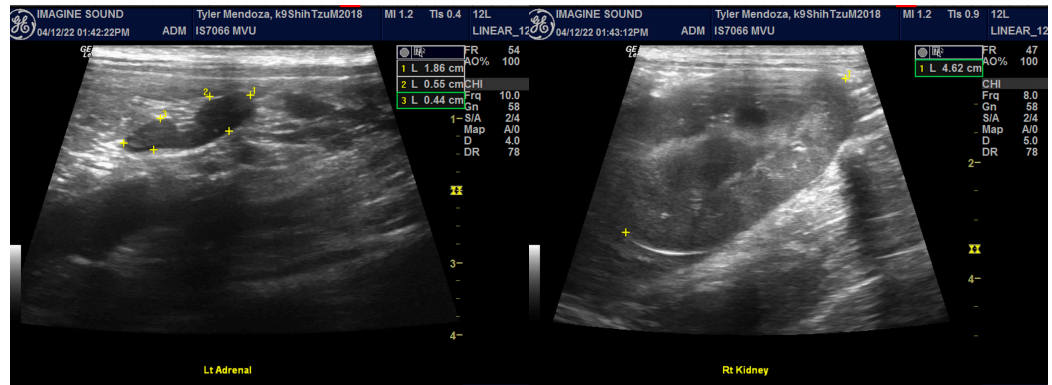
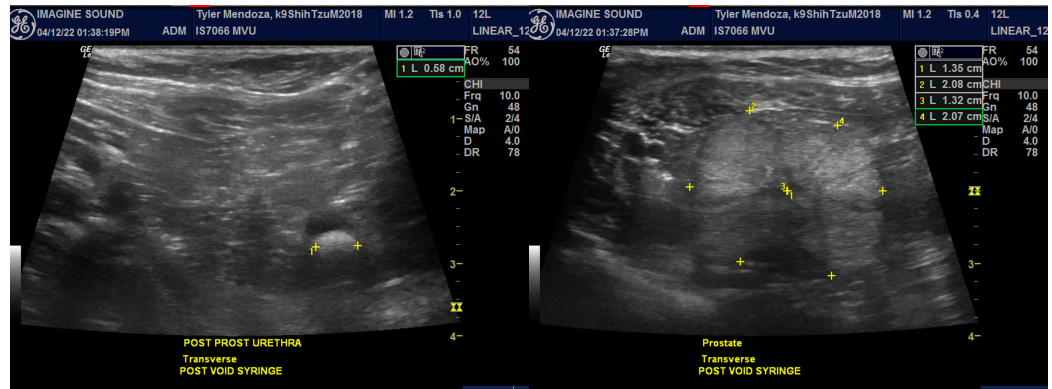
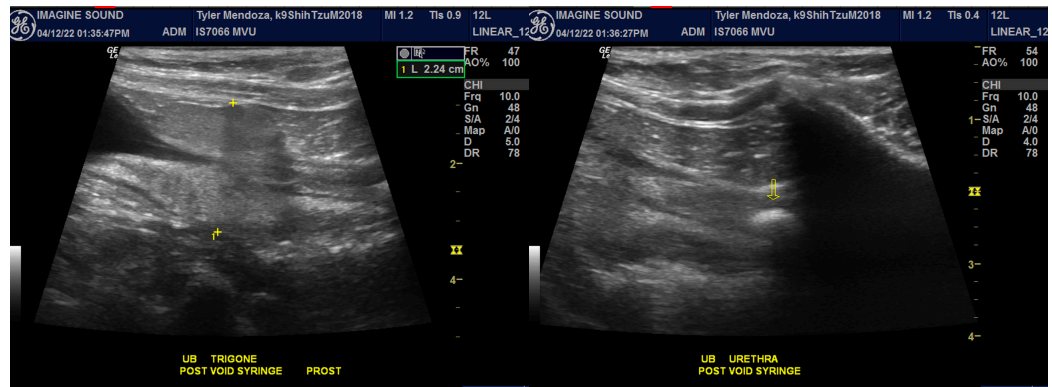
4/12/22

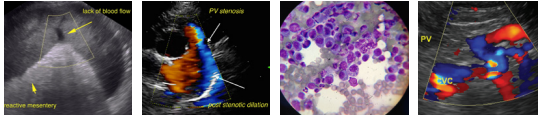
**ULTRASONOGRAPHIC FINDINGS**

- Distal urethral calculus
- Concurrent prostatitis pattern

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Urethrotomy likely necessary in this patient to retrieve the calculus. Neutering could be considered at that time.





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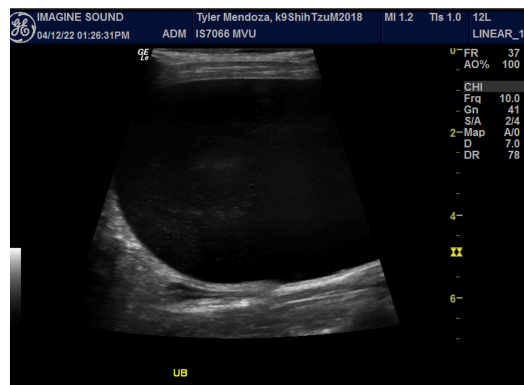
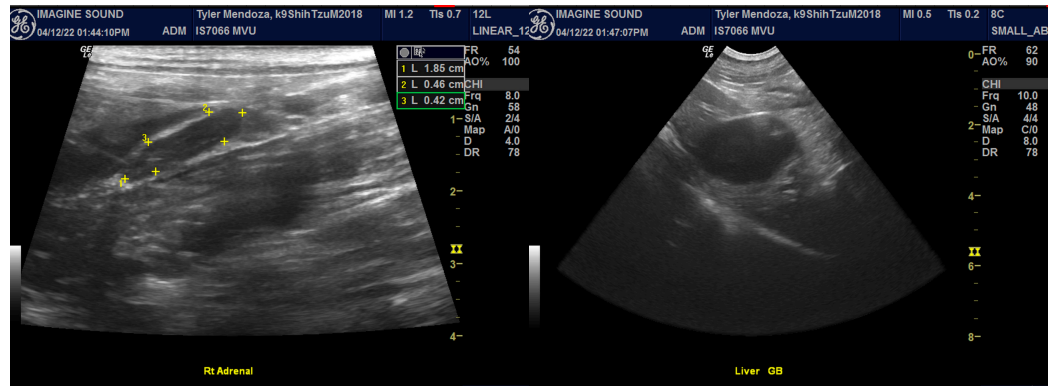
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**AGE**

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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

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