



**PATIENT PRESENTING CLINICAL SIGNS**

Billy White Shoes  
Benson

**SPECIES**

Canine

**BREED**

Shichon

History: Billy White Shoes is an eleven year old, MN, Shichon who was presented on 9/4/21 for exam. A new heart murmur (Grade III/VI) was ausculted on exam. Wellness bloodwork showed chronic Anaplasmosis positive antibodies and chronic lyme positive antibodies with a Quant C6=26. Cardiac proBNP was normal =788. Mildly increased cPL=218. Urinalysis showed many calcium oxalate crystals. Billy was seen on recheck on 9/7/21 for lethargy, decreased drinking and liquid diarrhea with blood. Metronidazole, cerenia and bland diet were prescribed. On 9/14/21 abdominal radiographs showed urinary bladder calculi and at least 2 urethral calculi. Surgery was advised. Abdominal ultrasound and echo are being pursued prior to surgery. Blood pressure today was 158/93, 154/94, 154/95. ECG is attached to echo submission as a pdf to be included in study.

**SEX**

Neutered male

**AGE**

11 years

**WEIGHT**

15.5 lbs

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder** revealed grouping of calculi that measured 2.0 cm as a group. The largest calculus measured approximately 0.6 cm.

The residual prostate measured 0.6 cm.

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 this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Corticomedullary calculi were noted, yet were non-obstructive. Occasional cortical cyst and cortical remodeling were noted. The right kidney measured 4.45 cm and the left kidney measured 4.65 cm.

**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 2.03 x 0.44 cm at the cranial pole and 0.64 cm at the caudal pole. The right adrenal gland measured 2.41 x 0.8 cm.

**IMAGING PERFORMED BY**

Dr. Todd

**HOSPITAL NAME**

Lambs Gap AH

**Spleen**

The **spleen** in this patient was mildly enlarged with uniform parenchyma and was folded upon itself. This is a positional variant and is not pathological. There was no evidence of significant disease.

**REFERRING VET**

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**Liver**

The **liver** was uniformly swollen with mildly excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

**DATE**

9/20/21



**PATIENT**

**Gastrointestinal**

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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.

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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.

**SEX**

Neutered male

**ULTRASONOGRAPHIC FINDINGS**

Bladder and renal calculi, non-obstructive.

**AGE**

11 years

Moderate degenerative renal changes.

Benign hepatopathy.

**WEIGHT**

15.5 lbs

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The patient is likely passing calculi periodically. Renal values should be monitored carefully. Cystotomy, stone analysis and culture would be appropriate.

**INTERPRETED BY**

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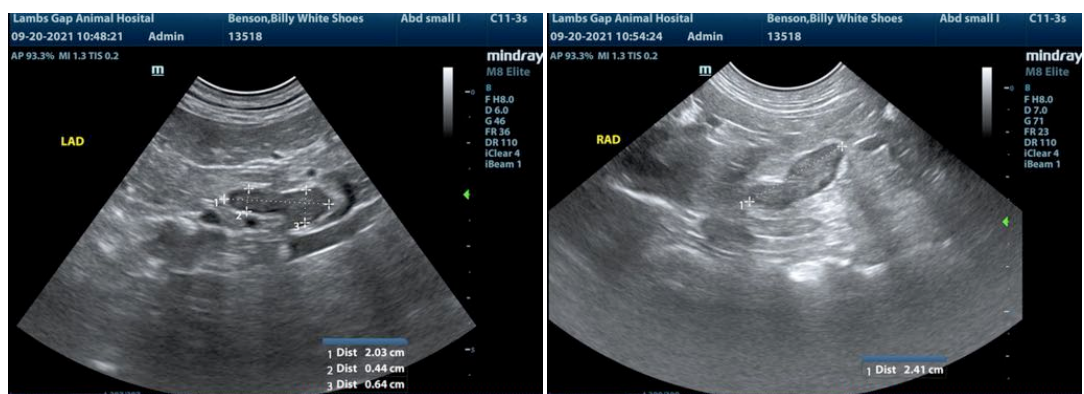
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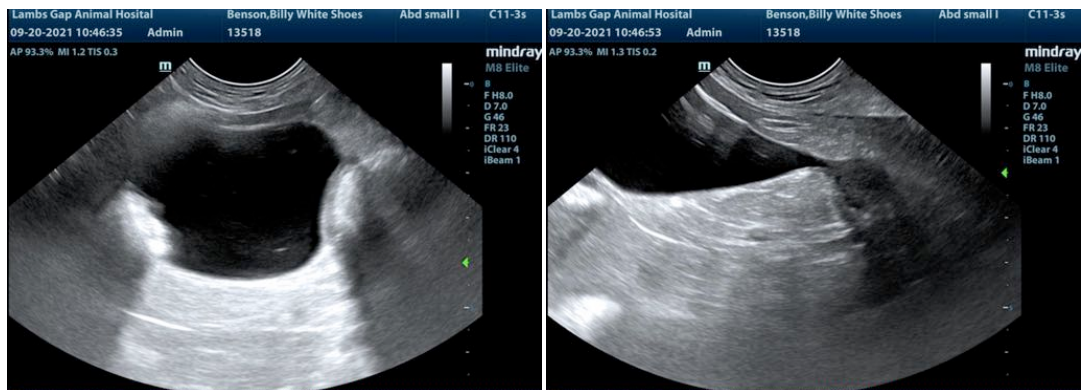
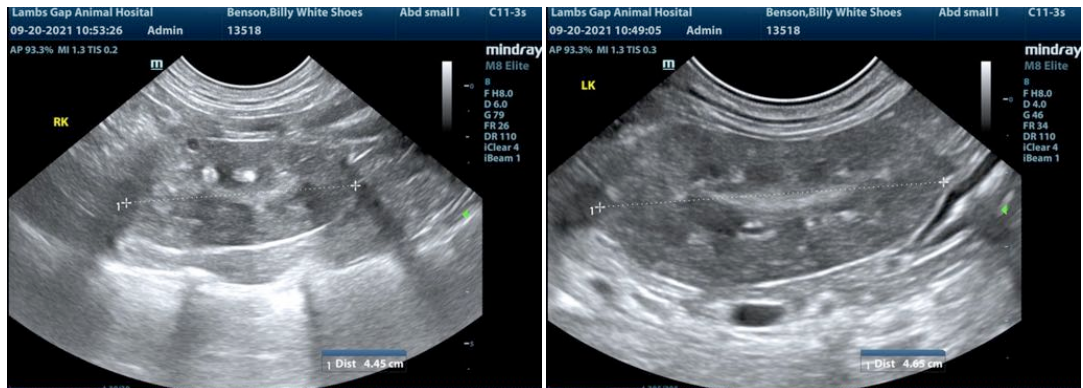
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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