



**PATIENT**

**PRESENTING CLINICAL SIGNS**

Hannah Magrelnicki

History: Follow up abdominal ultrasound to monitor gallbladder and liver. Previous ultrasound performed on 11/16/22: possible emerging gallbladder mucocele. Progressively elevating liver values despite Ursodial/Denamarin, very PU/PD, coat change (loss of guard hairs), slight pot-bellied appearance, focal quarter-sized skin lesions - R/O furuncles vs. calcinosis cutis. R/O gallbladder issue/liver issue/endocrine issue; Cushing's or other. Current meds: Ursodial BID, Denamarin SID, and Probiotic.

**SPECIES**

Canine

**BREED**

Terrier Mix

Abnormal PE/Chem/CBC/UA Results: 6/23/23 CBC: WNL. Chem: ALT 165, AST (WNL), ALPK 2114, GGT 16, T. bili, chol. 366. U/A: pH 8.0, trace protein, sediment (neg.), C/S no growth. USG: 1.006.

**SEX**

Spayed Female

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. No calculi or masses were noted. Slight micropolypoid changes were noted. This is a frequent finding in older animals and may be linked to a history of chronic urinary tract infection or active urinary tract infection. Urinalysis would be recommended with culture if any evidence of inflammatory sediment is present. The region of the trigone and visible pelvic urethra were normal. A minimal amount of urine was present at the time of the sonogram.

**AGE**

10.5 Years

**WEIGHT**

19.6 Pounds

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some minor 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. The left kidney measured 5.0 cm. The right kidney measured 5.0 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 right adrenal gland measured 1.89 cm x 0.34 cm at the caudal pole and 0.47 cm at the cranial pole. The left adrenal gland measured 1.89 cm x 0.63 cm at the caudal pole and 0.61 cm at the cranial pole.

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Westwood Regional  
VH

**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.

**REFERRING VET**

Dr. Hartwick

**INVOICE**

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**Liver**

The **liver** itself was unremarkable. The gallbladder was double layered, wall thickness measured 0.8 cm with dependent debris and micropolypoid changes. Coalesced bile was noted in this patient with fairly normal tear-dropped contour.

**DATE**

7/7/23



**PATIENT**

**Gastrointestinal**

Hannah Magrelnicki

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.

**SPECIES**

Canine

**Pancreas**

**BREED**

Terrier Mix

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.

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**ULTRASONOGRAPHIC FINDINGS**

- Immature mucocele, fairly stable with progressive gallbladder polyps and edematous wall
- Age-related urinary bladder changes with a minimal amount of urine at the time of the sonogram.
- Age-related renal changes

**AGE**

10.5 Years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

19.6 Pounds

The amount of bile is stable and mildly improved compared to the prior sonogram. However, the gallbladder wall is progressively thickened. Gallbladder motility study would be ideal for this patient, however, ursodiol therapy should be considered. If the patient is not anorexic and alkaline phosphatase and ALT values are stable, then this is likely not an overt clinical issue, however, I am concerned for a potential progression into full clinical mucocele. Urinalysis is warranted given the bladder wall thickening.

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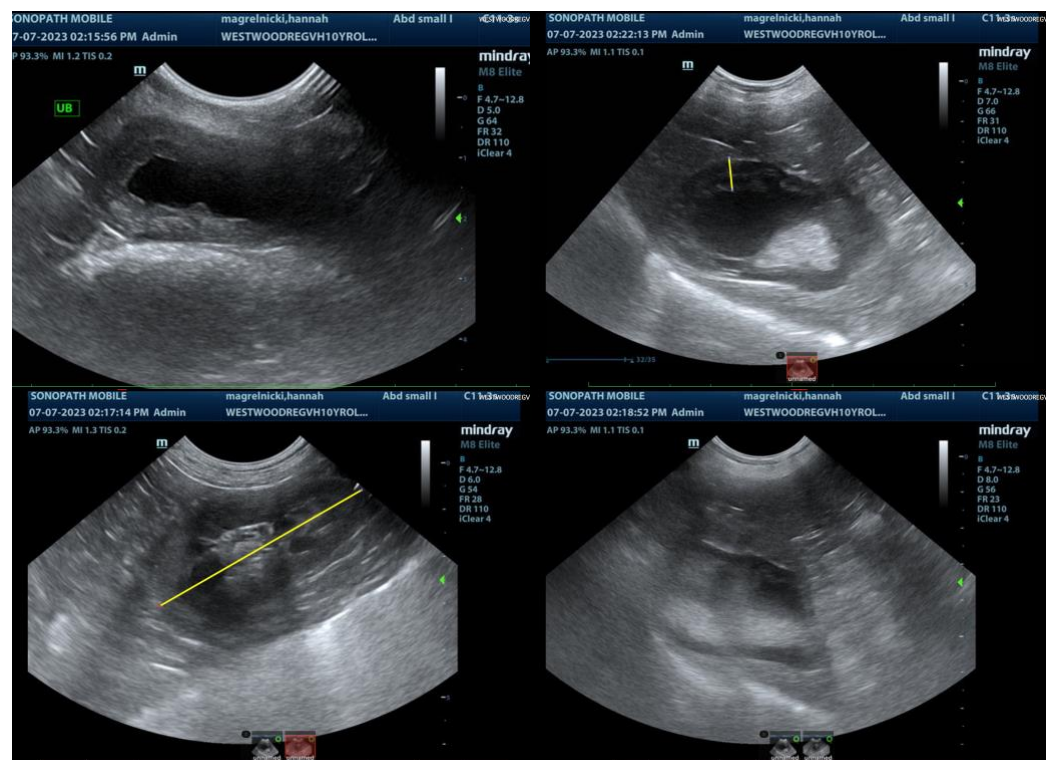
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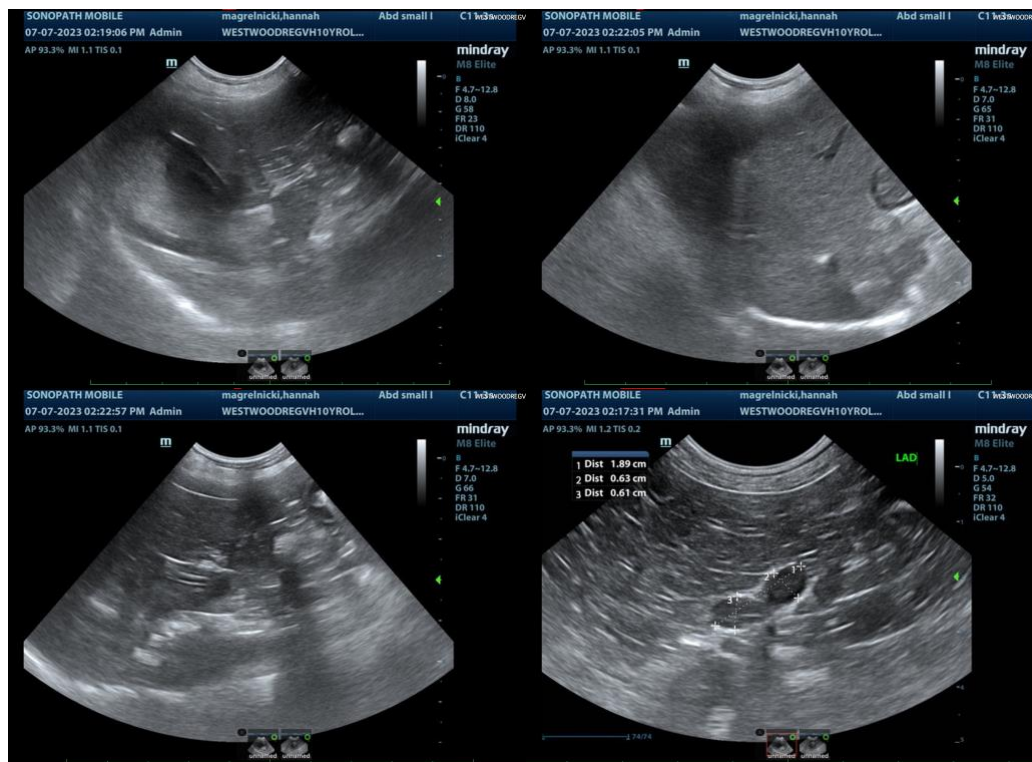
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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