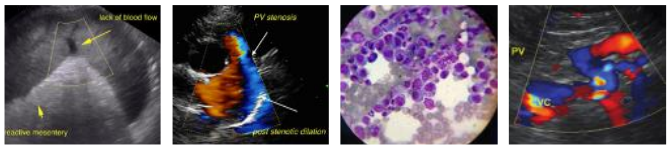

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1-800-838-4268 info@sonopath.com

PATIENT

Chloe Dever

SPECIES

Canine

BREED

Terrier Mix

SEX

Spayed Female

AGE

13 Years

WEIGHT

21.6 Pounds

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Schanche

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PRESENTING CLINICAL SIGNS

History: 13 year old FS mixed breed terrier with ~2 lb weight loss, increased urinating at home, possible developing cognitive dysfunction (wandering around at home). ALT 168, ALP 467, Crt 1.7, BUN 45, USG 1033 with <10 rods treated with zeniquin. US performed after 1 month of denamarin and 2 weeks of clavamox and metronidazole. Has had on and off decreased appetite lately - did not get antibiotics at meal times she did not eat - speaking with owner on day of US, P only recieved 2 doses of denamarin and very few doses of abx. Repeat BW - Crt 1.4, BUN 32.9, phos 5.3, ALT 246, ALP 467, alb 4.3. Rest of BW wnl.

Abnormal PE/Chem/CBC/UA Results: 9/26/22 - ALT 168, ALP 467, Crt 1.7, BUN 45, USG 1033 with <10 rods 10/28/22 - Crt 1.4, BUN 32.9, phos 5.3, ALT 246, ALP 467, alb 4.3. Rest of BW wnl.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. A minimal amount of urine was present at the time of the sonogram. 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.

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 right kidney measured 4.6 cm. The left kidney measured 3.86 cm.

Adrenal Glands

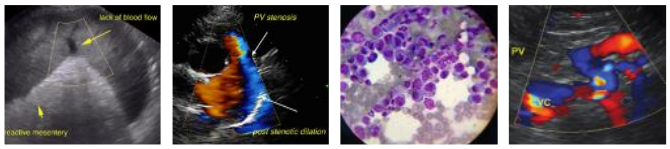
Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 0.44 cm at maximum width, uniform. The left adrenal gland measured 0.45 cm.

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.

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some minor age-related parenchymal remodeling was noted but



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likely not clinically significant at this time. Vascular tracts were of normal volume and no evidence of congestion was noted. Multifocal hyperechoic granulomatous type nodules were noted, nondisruptive, measuring up to 1.0 cm.

The **gallbladder** was mildly over distended with suspended and dependent debris, yet not to the level of emerging mucocele, yet sludge appears to be mildly excessive. No adjunctive inflammation was noted.

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

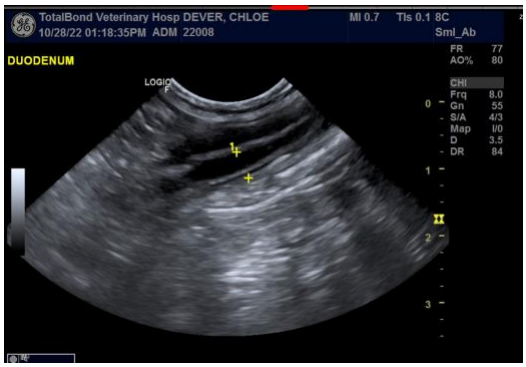
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

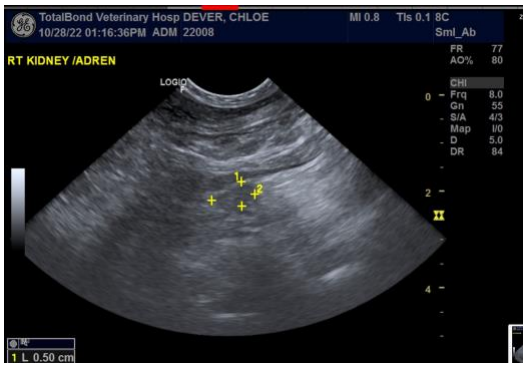
ULTRASONOGRAPHIC FINDINGS

- Age-related renal changes
- Age-related urinary bladder changes
- Benign hepatopathy with lipogranulomatous hepatic changes, nonspecific
- Gallbladder sludge

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA could be considered for further definition. No evidence of significant disease. Urine culture and sensitivity indicated. Management for prerenal disease is indicated given the azotemia and well concentrated urine.





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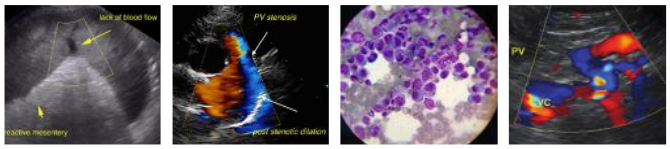

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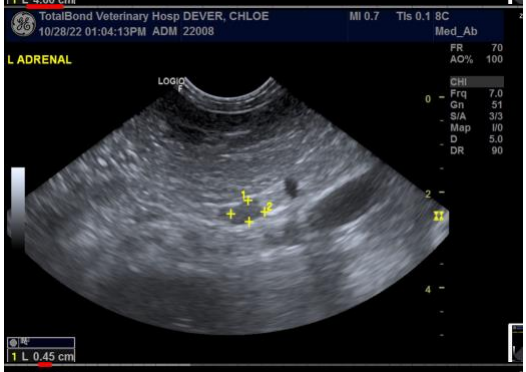

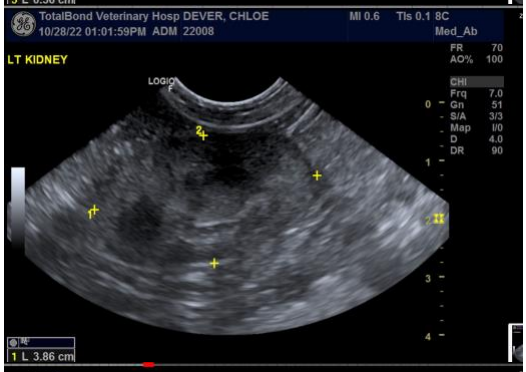

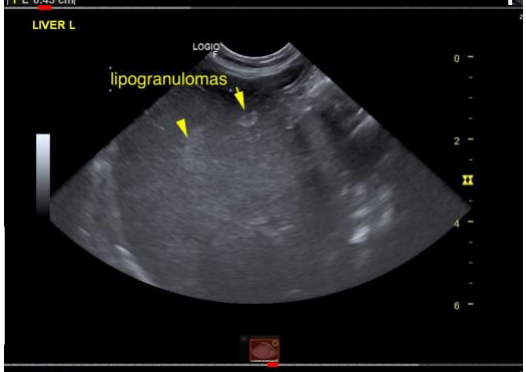

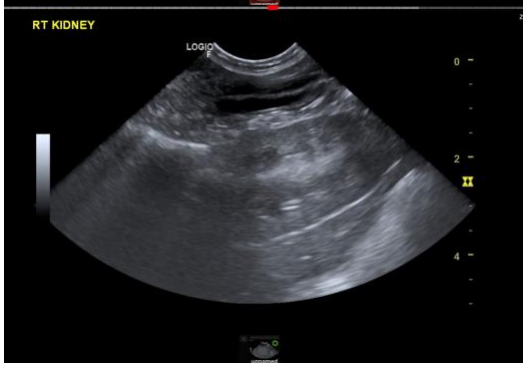

The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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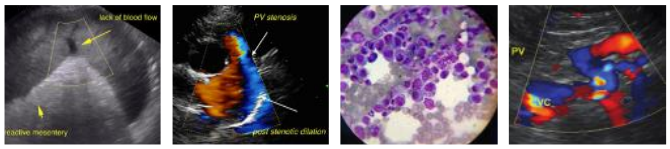

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