



**PATIENT**

Dylan Stone

**SPECIES**

Canine

**BREED**

Mix

**SEX**

Neutered Male

**AGE**

12 Years

**WEIGHT**

47.6 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Goodman

**HOSPITAL NAME**

Evandale-Blue Ash PH

**REFERRING VET**

Dr. Goodman

**INVOICE**

17434

**DATE**

9/23/22

**PRESENTING CLINICAL SIGNS**

History: Recheck ultrasound from 8/27/2020. Since last ultrasound, we performed liver aspirates (report attached). Patient goes between rDVM and us for acupuncture. BW from 6/2021 shows elevated ALP and normal kidney values. Patient had been on carprofen from 3yrs up until a year ago. BW on 10/2021 showed ALP decreased slightly and elevated BUN - d/c carprofen after seeing these findings. Saw rDVM on 9/4/22 and performed CBC/Chem - elevated ALP resolved, kidney values elevated. Performed UA and urine culture at request of rDVM on 9/7/22, dipstick showed protein present, inactive sediment and urine culture showed no growth. rDVM rec ultrasound and was performed with us today. Owner had no concerns today, recently had some diarrhea, stool is now just softer, still eating bland diet. Current meds: thyro-tabs 0.4mg (1 tab BID), t-relief, apoquel prn, cosequin, carprofen prn (<3x a week). Owner report on 9/20 that patient hadn't been acting himself, more quiet and not as peppy, unsure if from pain or something else.

Abnormal PE/Chem/CBC/UA Results: BW from us and rDVM attached

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized, and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

The **kidneys** revealed similar age-related moderate chronic degenerative changes with Interstitial nephrosis pattern. The left kidney measured 6.0 cm. The right kidney measured 6.4 cm. Occasional cortical cysts were noted in both kidneys.

**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 0.5 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** revealed similar changes to the prior sonogram with mild increased portal markings, minor swelling and isoechoic nodular changes. The gallbladder and common bile duct were unremarkable.

**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



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demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

## Pancreas

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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.

## BREED

Mix

## Free Abdomen

Cystic mesenteric **lymph nodes** were noted, measuring up to 2.0 cm.

## SEX

Neutered Male

- Benign hepatopathy with remodeling, subjectively progressed from the prior sonogram
- Moderate degenerative renal changes
- Cystic mesenteric lymph nodes

## AGE

12 Years

No evidence of significant pathology. Bile acid profile could be justified upon the liver to assess for early dysfunction. Blood pressures, urine culture and diet change are all indicated. I'm most concerned about the long-term viability of the kidneys in this patient. Subjectively some progressive remodeling has occurred in the liver compared to the prior sonogram.

## WEIGHT

47.6 Pounds

For an additional charge, internal medicine consult can be utilized through SonoPath.com. You can select the internal medicine drop down at <http://spa.sonopath.com/>.

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One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. <https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services>

## IMAGING PERFORMED BY

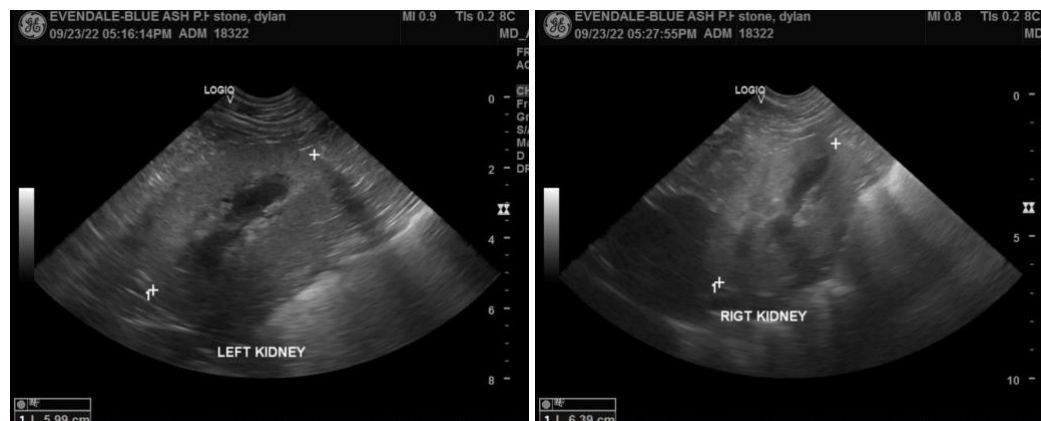
Dr. Goodman

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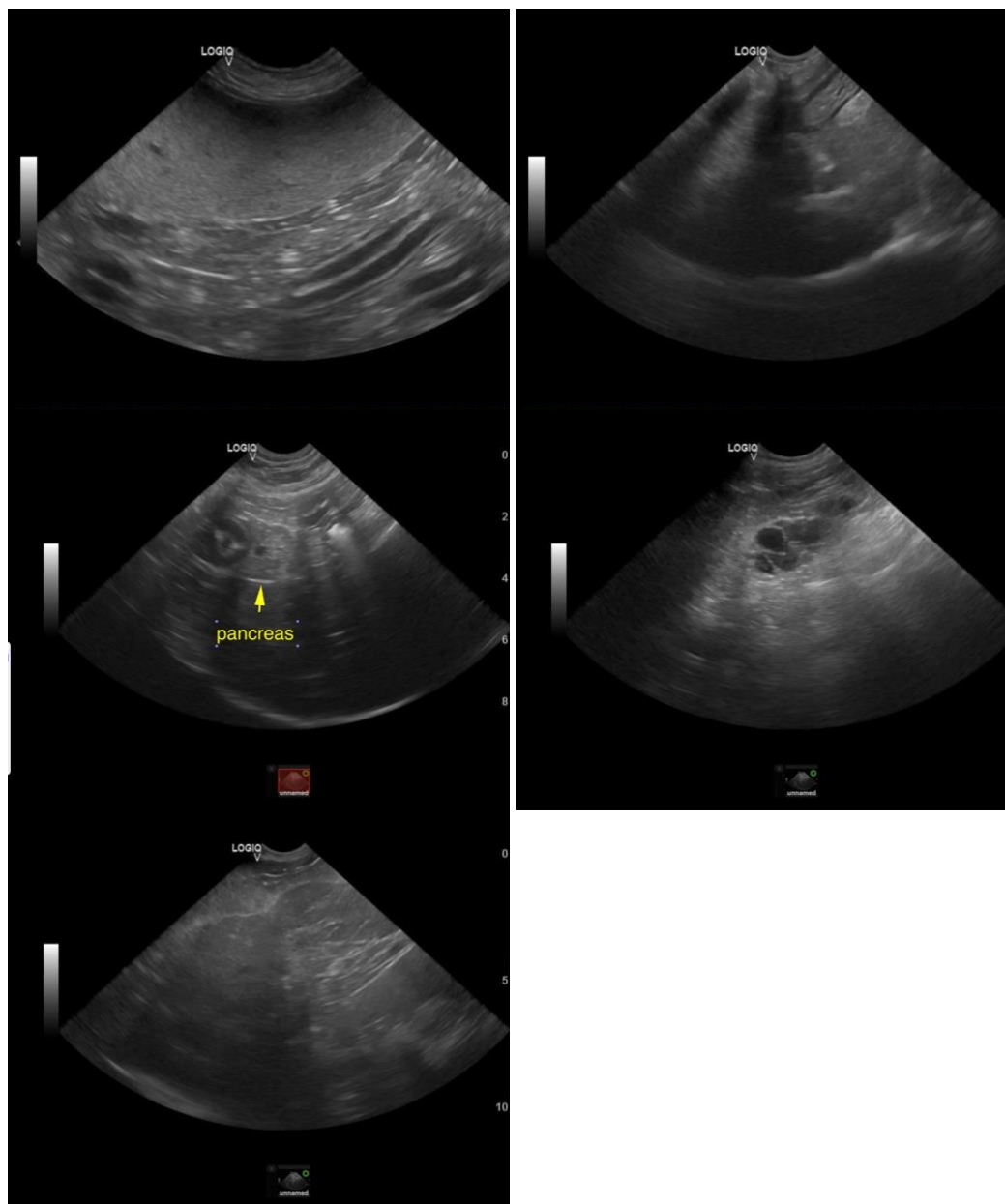
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
info@SonoPath.com