



**PATIENT PRESENTING CLINICAL SIGNS**

Annie Davis

History: Presented at our hospital for: Woke owners up at 3am; sounded like she had hiccups. Gave kayro syrup. Breathing heavy. Previous Medical: Diabetic, Addisonian, Heart Dz, Renal Dz, Seizures, Pancreatitis Medications: Thyrotabs, Prednisone, Norvax, Insulin

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Cardiovascular: Grade 1-2 heart murmur (difficult to clearly auscultate over panting) Musculoskeletal: Stiff gait in hindlimbs, slight head tilt Integument:

**BREED**

Labrador Cross

Subcutaneous masses of various sizes; Large inguinal mass right inguinal CBC - Anemic CHEM - Amylase (1506) ALP (483) Ca (8.8) TP (5.3) Alb (2.4) BUN (34.5) Creat (2.1) EPOC - BUN (30) Creat (2.36) HCT (26) iCa (1) K (2.2) cPL - normal

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**SEX**

Spayed Female

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction. 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 was noted. Ureteral papillae were normal.

**AGE**

9 years

The **kidneys** presented a relatively uniform cortical hyperechogenicity when compared to the renal medulla, spleen and liver. No overt masses were noted. Corticomedullary definition was nebulous and the ratio favored the cortex slightly. The ureters were not visible and assumed to be normal. These changes are most consistent with chronic interstitial nephritis yet infiltrative disease could not be entirely ruled out without biopsy though neoplasia is not suspected. The left kidney measured 7.11 cm with pyelectasia and cortical remodeling with mineralization.

**WEIGHT**

33 kg

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**Adrenal Glands**

The left **adrenal gland** was uniform. The region of the right adrenal gland revealed no evidence of pathology.

**IMAGING PERFORMED BY**

Erin Wicks

**Spleen**

**HOSPITAL NAME**

Shores Veterinary  
Emergency Center

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 was noted.

**REFERRING VET**

Dr. Miller

**Liver**

**INVOICE**

94117

The **liver** presented heterogenous parenchyma with increased portal markings and coarse architecture. Slight undulating capsular contour was noted. The gallbladder and common bile duct were unremarkable. This is consistent with chronic inflammatory hepatopathy. 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.

**DATE**

11/25/21



**PATIENT**

**Gastrointestinal**

Annie Davis

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. There was retention of ingesta noted in the stomach. 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

**BREED**

**Pancreas**

Labrador Cross

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**

Spayed Female

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

9 years

Hepatic remodeling.

Retention of ingesta.

Renal remodeling, interstitial nephrosis pattern. Subjectively near end stage.

**WEIGHT**

33 kg

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

72-hour IV fluid protocol is recommended with screening for Addison's is warranted in this patient as the adrenal glands were not overtly visible. Chronic renal disease is present. However, complicating Addison's may be playing a role in this case. Significant hepatic remodeling was noted. Bile acid profile is warranted with 72 hour IV fluid protocol with reassessment of the azotemia. Consider chronic Leptospirosis in this patient as well.

**IMAGING PERFORMED BY**

Erin Wicks

**HOSPITAL NAME**

Shores Veterinary  
Emergency Center

**REFERRING VET**

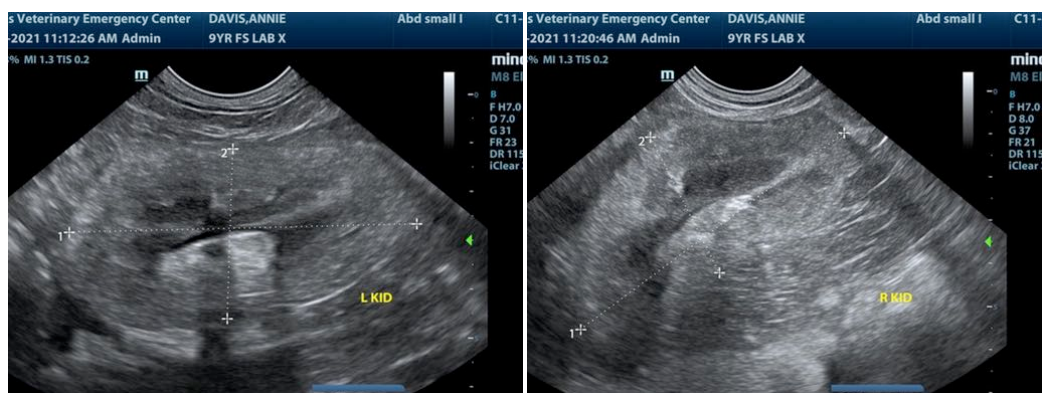
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**PATIENT**

Annie Davis

**SPECIES**

Canine

**BREED**

Labrador Cross

**SEX**

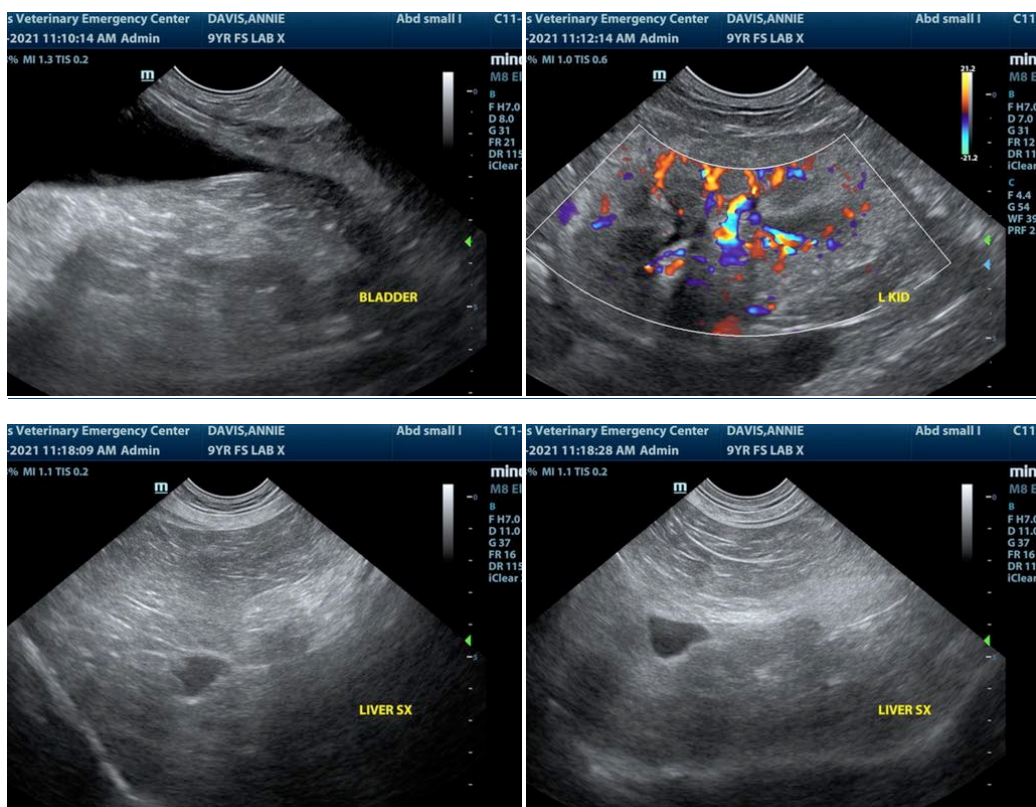
Spayed Female

**AGE**

9 years

**WEIGHT**

33 kg



**INTERPRETED BY**

Eric Lindquist, DMV  
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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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