



**PATIENT**

Penny Rodriguez

**PRESENTING CLINICAL SIGNS**

Mild liver enzyme elevations. ALT 212, ALP 426

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Labrador

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 was noted. Ureteral papillae were normal.

**SEX**

Spayed female

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 6.96 cm.

**AGE**

11 years

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**Adrenal Glands**

The left **adrenal gland** was mildly enlarged and uniform measuring 2.26 x 0.1 cm. The right adrenal gland measured 2.02 x 1.21 cm at the cranial pole and 0.92 cm at the cranial pole.

**IMAGING PERFORMED BY**

Eric Lindquist, DMV  
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**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 was noted.

**HOSPITAL NAME**

Franklin Lakes AH

**REFERRING VET**

Dr. Hudson

**Liver**

The **liver** was enlarged with heterogenous, mixed, hypoechoic non-disruptive changes with increased portal markings. This is consistent with vacuolar hepatopathy and nodular hyperplasia. 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.

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**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. The gastrointestinal tract was mildly deviated.



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**Pancreas**

Penny Rodriguez

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.

**SPECIES**

Canine

**ULTRASONOGRAPHIC FINDINGS**

**BREED**

Labrador

Nodular hyperplasia, vacuolar hepatopathy liver pattern.

Slightly prominent adrenal glands.

**SEX**

Spayed female

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

If Cushingoid parameters are present then work-up for PDH is indicated. Bile acid profile +/- FNA of the liver is indicated. There is no evidence of suspicion of neoplasia.

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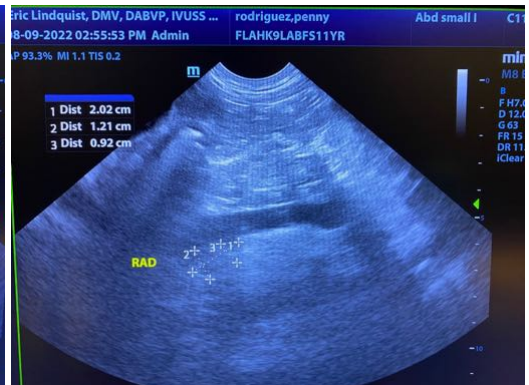
Dr. Hudson

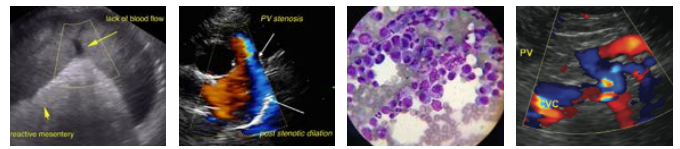
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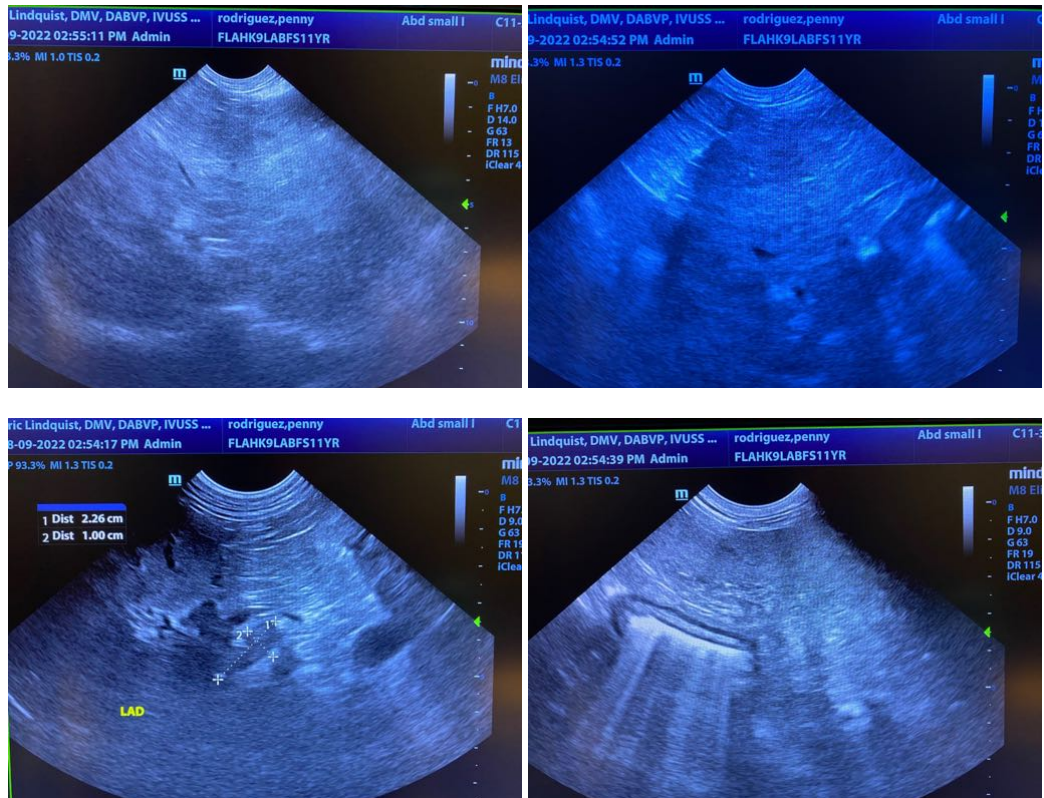
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
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