



PATIENT

Zoe Hester

SPECIES

Canine

BREED

Mixed Breed

SEX

Spayed Female

AGE

10 Years

WEIGHT

35.2 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jenny Parrish

HOSPITAL NAME

Local Mobile VS

REFERRING VET

Jenny Parrish

INVOICE

23357

DATE

7/14/23

PRESENTING CLINICAL SIGNS

Clinical signs/history: p has been on phenobarbital and keppra for several years to manage epilepsy. seizure triggers include stress and day light so p never leave house/goes outside Exam findings: normal; main concern is progressive increase in ALT+ ALP + AST on screening labs (normal in previous years) Dog is also on levothyroxine for hypothyroidism

Abnormal PE/Chem/CBC/UA Results: TOTAL PROTEIN 5.7 5.0-7.4 g/dL ALBUMIN 3.1 2.7-4.4 g/dL GLOBULIN 2.6 1.6-3.6 g/dL A/G RATIO 1.2 0.8-2.0 *AST (SGOT) 84 (HIGH) 15-66 IU/L HIGH *ALT (SGPT) 420 (HIGH) 12-118 IU/L HIGH *Alk Phosphatase 900 (HIGH) 5-131 IU/L HIGH GGT 10 1-12 IU/L Total Bilirubin 0.1 0.1-0.3 mg/dL BUN 13 6-31 mg/dL Glucose 84 70-138 mg/dL urine cortisol:cr was WNL at 24 (<26)

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 pelvic urethra was imaged 1.0 cm beyond the cystourethral junction.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some mild 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. The right kidney measured 5.97 cm. The left kidney measured 3.71 cm. Pinpoint pelvic mineralization was noted.

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 left adrenal gland measured 2.2 cm x 0.5 cm. The right adrenal gland measured 2.1 cm x 0.4 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 **caudate process** was swollen in this patient, consistent with hepatoma. The gallbladder and common bile duct were unremarkable.

Gastrointestinal

There was some residual chyme and gas was noted in the **stomach**, yet not pathological. This is consistent with end post prandial presentation. Transit of chyme into the small intestine was normal.



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Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. 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.

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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.

BREED

Mixed Breed

ULTRASONOGRAPHIC FINDINGS

SEX

Spayed Female

- Swollen caudate process, consistent with hepatoma.
- Age-related renal changes with mineralization
- Partially full stomach
- Structurally unremarkable abdomen otherwise

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

10 Years

FNA of the liver is warranted, even though subjectively appears benign.

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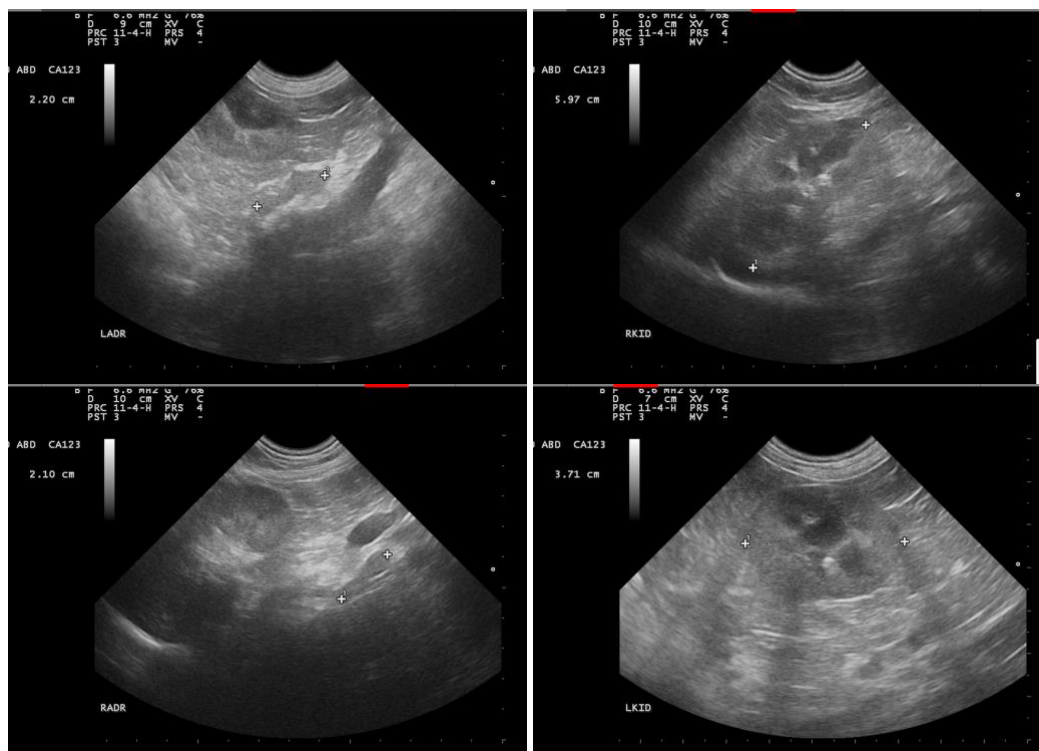
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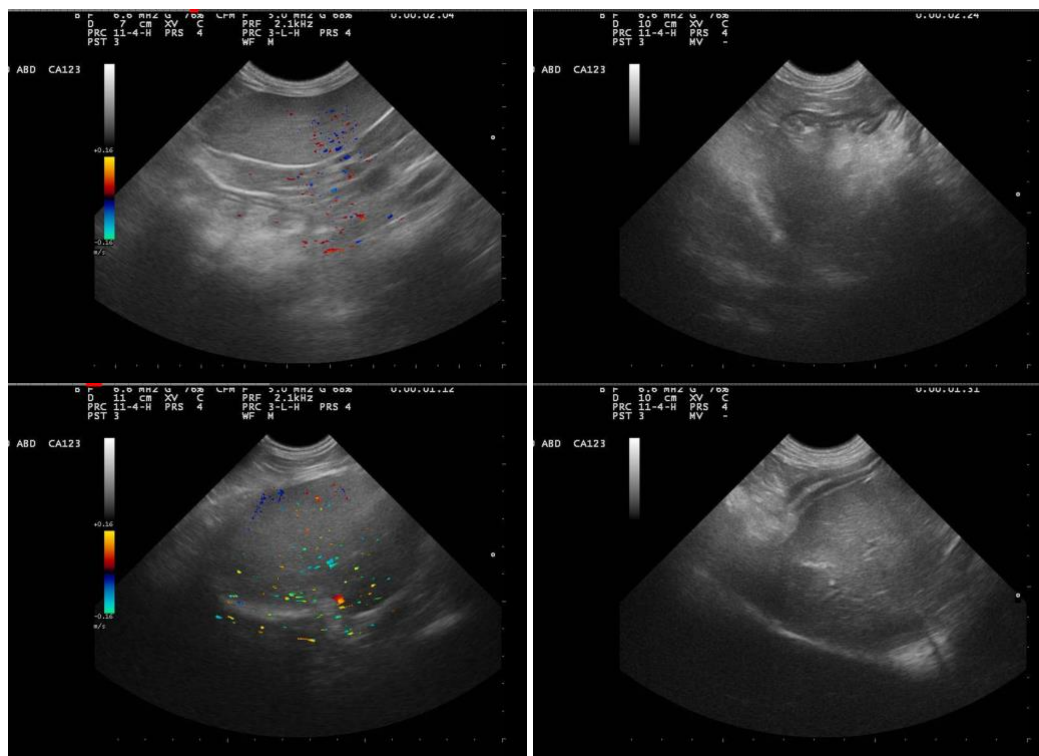
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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