



PATIENT PRESENTING CLINICAL SIGNS

AJ Worden Presented for TTA and had elevated ALT/ALPK on bloodwork. Noted possible abnormalities associated with the liver on ultrasound.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

Urinary System

BREED

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 2.0 cm beyond the cystourethral junction.

Lab X

SEX

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 left kidney measures 6.7 cm. The right kidney measured 6.53 cm.

Neutered Male

AGE

10 Years 8 Months

Adrenal Glands

WEIGHT

63

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 0.46 cm. The right adrenal gland measured 0.66 cm at the cranial pole and 0.50 cm at the caudal pole.

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

Spleen

IMAGING PERFORMED BY

Dr. Jacquie Preston

The **spleen** was folded upon itself cranially and 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.

HOSPITAL NAME

All Creatures AH

Liver

REFERRING VET

Dr. Jacquie Preston

The **liver** presented coarse architecture. Multifocal hyperechoic nodules noted. 25-gauge FNA warranted. A larger nodule measured 2.2 cm. These are likely benign or lipogranulomas. However, multifocal hypoechoic nodular changes noted elsewhere in the liver. Generalized disorganized nodular pattern noted throughout. 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.

INVOICE

44147

Gastrointestinal

DATE

7/19/23

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.



PATIENT

Pancreas

AJ Worden

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

Lab X

- Diffuse nodular hyperplasia liver pattern with excessive gallbladder debris, mild potential for neoplasia.
- Folded spleen

SEX

Neutered Male

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

If any crusting skin lesions are present in this patient, then the pattern is reminiscent of hepatocutaneous syndrome. Bile acid profile warranted and FNA of the hyper- and hypoechoic nodular changes throughout the liver for further definition. Strongly recommend bile acid profile prior to anesthetic procedure in this patient to assess hepatic function.

AGE

10 Years 8 Months

WEIGHT

63

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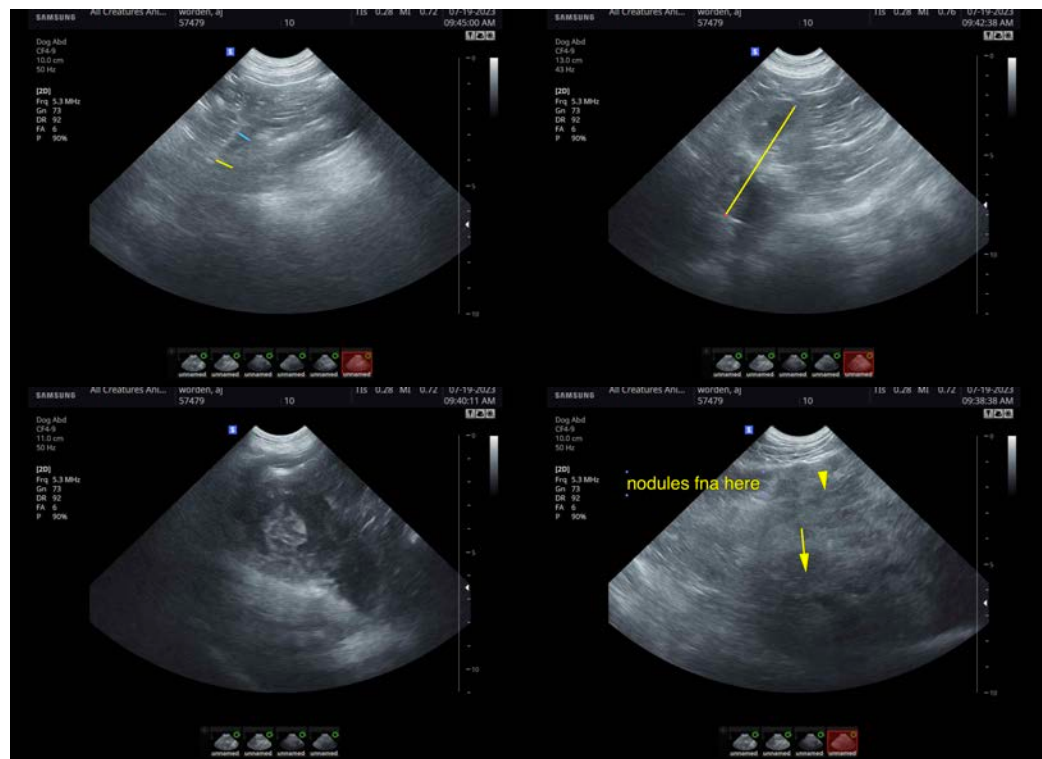
Dr. Jacquie Preston

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PATIENT

AJ Worden

SPECIES

Canine

BREED

Lab X

SEX

Neutered Male

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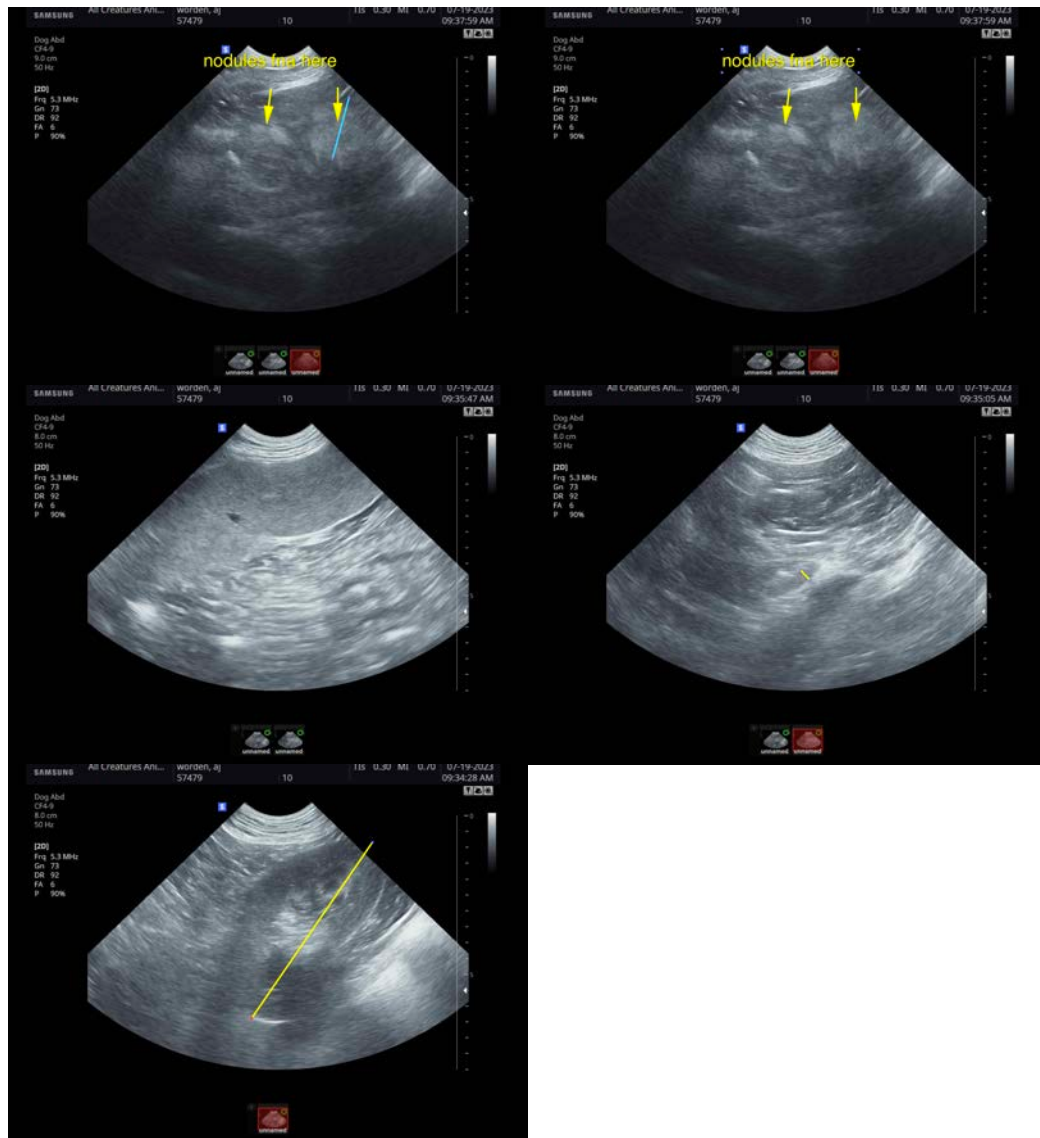
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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