



PATIENT PRESENTING CLINICAL SIGNS

Zoe Krysiak History: Elevated liver values, accidents in house ALP 3267 ALT 984 BUN/CREAT 53

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

Urinary System

BREED

English Setter

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

SEX

Spayed female

Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.4 cm in length. The right kidney measured 6.7 cm in length.

AGE

11 years

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

WEIGHT

49.4 pounds

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma and no evidence of hyperplasia or tumors. The left adrenal gland measured 0.66 cm width at the caudal pole and 0.62 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma and no evidence of hyperplasia or tumors. The right adrenal gland measured 0.39 cm width at the caudal pole and 0.88 cm width at the cranial pole.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
ARDMS/RVT

Liver

The liver exhibited mild generalized enlargement. A solitary discrete mildly hyperechoic non expansive nodule measuring 1.8 cm in diameter was noted. Areas of lobar symmetrical yet rounded caudal contour were present. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and mild gallbladder mineral and mild nondependent particulate debris. No evidence of peripheral gallbladder inflammation was observed. The cystic and common bile ducts were normal.

HOSPITAL NAME

Littlestown VH

REFERRING VET

Dr. Holland

INVOICE

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Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

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PATIENT

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The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

Normal visible colon wall layers were present with apparent formed feces in lumen.

SPECIES

Canine

Pancreas

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

BREED

English Setter

ULTRASONOGRAPHIC FINDINGS

SEX

Spayed female

- Hepatopathy exhibiting parenchymal remodeling with solitary nonspecific yet likely benign nodule, mild lobar symmetrical rounded contour.
- Mild gallbladder mineral and non-dependent luminal debris.
- Mild age-related kidneys.
- Normal bilateral adrenal glands.
- Sonographically unremarkable urinary bladder and visible proximal urethra.

AGE

11 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

49.4 pounds

Overall, the liver was nonspecific yet suggestive of benign hepatopathy and parenchymal changes. Potential considerations may include vacuolar hepatopathy and cholestasis given the insignificantly elevated ALP with potential for primary or concurrent inflammatory/immune mediated hepatopathy given the ALT elevation, probable focal nodular hyperplasia or small lipogranuloma, fibrosis, hematopoiesis, infiltrative neoplasia (less likely) or other hepatopathy. Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial.

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Further assessment may include hepatic cytology obtained at the time of the ultrasound. Hepatic core surgical biopsy +/- bile C/S may be required for definitive diagnosis.

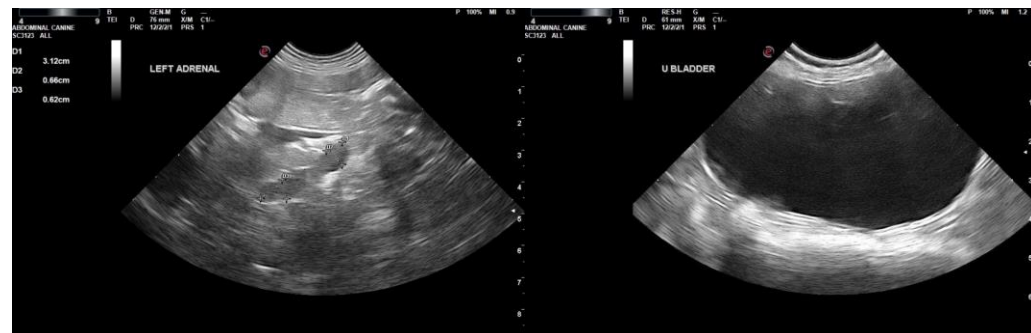
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Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

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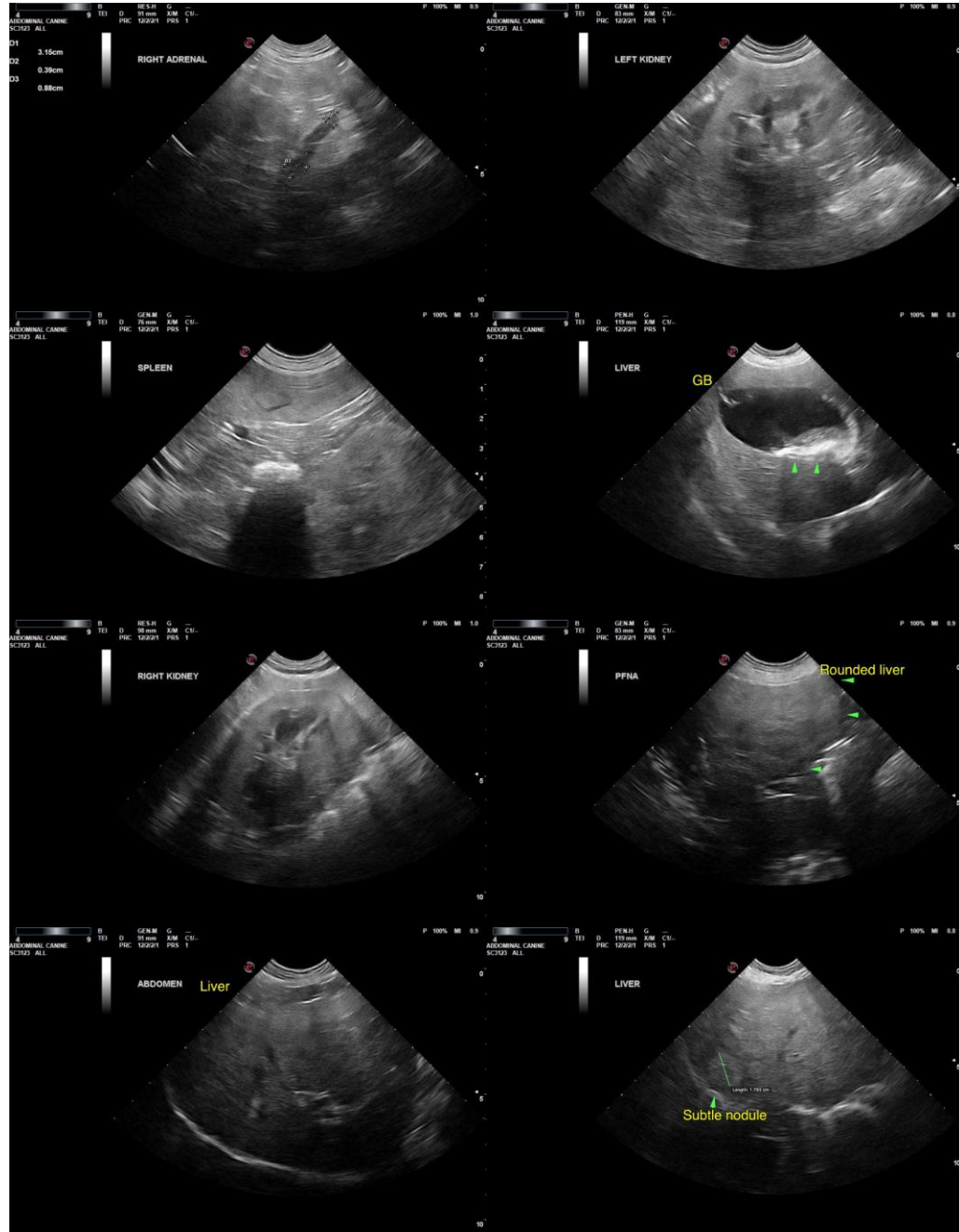
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@SonoPath.com



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