



PATIENT PRESENTING CLINICAL SIGNS

Emmet Paine History: Occasional right front lameness and lethargy, Lyme + elevated liver values
Medication: Gabapentin, Doxycycline, Denamarin

SPECIES

Canine

ALP 1372, ALT 272, AST 111, GGT 21, BG 53, BUN 8, Cholesterol 126

BREED

Cairn Terrier

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Neutered Male

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths, sediment or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

AGE

13 years

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 0.83 cm in diameter.

The area of the aortic trifurcation was free of pathology.

WEIGHT

18.3 Pounds

Normal size and margination were 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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.8 cm in length. The right kidney measured 4.9 cm in length.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.52 cm width at the caudal pole and 0.35 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.31 cm width at the caudal pole and 0.60cm width at the cranial pole.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
ARDMS/RVT

HOSPITAL NAME

Stanglein VC

Spleen

The spleen was overall normal in size and contour exhibiting subtle generalized splenic parenchyma heterogeneity with intermittent nonhomogeneous to mixed echogenic, non-expansive parenchymal nodules. An example of a splenic nodule measured 0.63 cm in diameter.

REFERRING VET

Dr. Hoffman

Liver/ Gallbladder

The liver exhibited potential for generalized mild enlargement with nonhomogeneous to mixed echogenic hepatic parenchyma echogenicity and moderate coarse echotexture. Evidence of parenchymal remodeling and multifocal, variably sized, hypoechoic to nonhomogeneous intraparenchymal nodules was present. An example of an Intraparenchymal nodule in the caudoventral liver measured 2.2 cm in diameter. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

INVOICE

13025

DATE

1.11.2022



PATIENT ***Gastrointestinal***

Emmet Paine 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.

SPECIES 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.

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

BREED ***Pancreas***

Cairn Terrier 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 were evident.

SEX

Neutered Male ***Free Abdomen***

AGE No overt lymphadenopathy or peritoneal effusion was present.

13 years **ULTRASONOGRAPHIC FINDINGS**

Primary Findings

- WEIGHT**
- Severely heterogeneous / nodular to irregular liver
 - Nonspecific splenic nodules
 - Mild nonspecific chronic renal changes

18.3 Pounds

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall appearance of the liver was nonspecific with considerations including vacuolar hepatitis, chronic active hepatitis / cholangiohepatitis, or other inflammatory / immune-mediated disease with areas of nodular hyperplasia, extramedullary hematopoiesis, early fibrosis, cirrhosis, infiltrative neoplasia or other hepatopathy.

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Assuming normal clotting status, ultrasound-guided FNA of the hepatic parenchymal and nodule if accessible is recommended for screening cytology. Bile acid testing may be considered to assess hepatic functionality, given the lab work abnormalities. Continued hepatosupportive medications is warranted.

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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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SPECIES

Canine

BREED

Cairn Terrier

SEX

Neutered Male

AGE

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PATIENT

Emmet Paine

SPECIES

Canine

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.

BREED

Cairn Terrier

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.

SEX

Neutered Male

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com

AGE

13 years

WEIGHT

18.3 Pounds

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