

PATIENT PRESENTING CLINICAL SIGNS

Bogie Seaman Presented for annual wellness exam. Doing well at home with no clinical issues. BW revealed elevated liver enzymes. R/O cholangitis/hepatitis vs toxin vs neoplasia
Abnormal PE/Chem/CBC/UA Results: CBC normal. Chem-K 5.3; ALT 895; AST 323.

SPECIES

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

DSH

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of – 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

Neutered Male

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 4.5 cm. The right kidney measured 5.0 cm.

AGE

12 Years

Adrenal Glands

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.39 cm in width. The left adrenal gland measured 0.36 cm in width. The right adrenal gland measured 0.39 cm in width.

WEIGHT

14.9 Pounds

Spleen

The spleen exhibited mild generalized enlargement (1.4 cm in width). Finely textured and homogenous parenchyma noted, 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.

INTERPRETED BY

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

Liver

IMAGING PERFORMED BY

Pamela Harrigan, RDMS

The liver exhibited potential mild generalized enlargement. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. Intermittent, thinly walled parenchymal cysts were present containing anechoic fluid. Example of cyst measured 0.97 cm diameter. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. Multiple areas of non-obstructive biliary tree mineral was present. The gallbladder was non-distended in size with mild non-obstructive luminal mineral. The cystic and common bile ducts were normal.

HOSPITAL NAME

Anchor AH

REFERRING VET

Dr. Katherine Pietsch

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. Gastric body wall measured 0.26 cm.

INVOICE

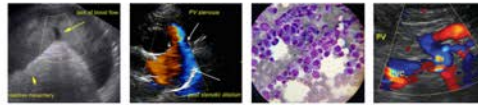
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The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. Jejunum wall measured 0.23 cm.

DATE

8/19/21

Ileocolic wall measured 0.25 cm. Normal visible colon wall layers were present with apparent formed feces in lumen.



PATIENT

Pancreas

Bogie Seaman

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia. Minor pancreatic duct dilation noted.

SPECIES

Feline

ULTRASONOGRAPHIC FINDINGS

BREED

DSH

- Hepatopathy with multifocal areas of non-obstructive biliary tree mineralization and intermittent small parenchymal cysts.
- Mild non-obstructive gallbladder mineral
- Mild chronic renal changes
- Mild splenomegaly with maintained symmetrical contour and homogeneous parenchyma
- Heterogeneous pancreas with minor pancreatic duct dilation – age related pancreatic changes likely.

SEX

Neutered Male

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

12 Years

The overall appearance of the liver was non-specific. Primary consideration for chronic inflammatory hepatic parenchymal or hepatobiliary process (i.e., cholangiohepatitis given the elevated ALT/AST combination). At times, biliary tree mineralization and mineralized gallbladder debris may be associated with chronic cholangiohepatitis. Potential for hepatic neoplasia is considered unlikely. Some degree of cholestasis may be present.

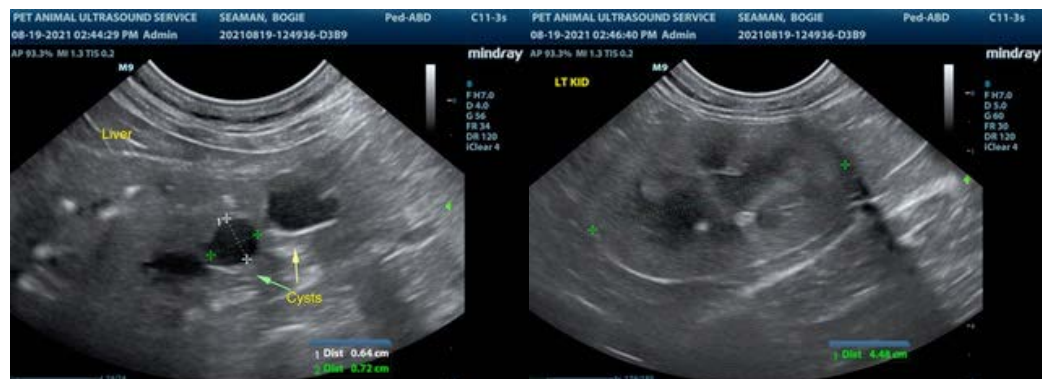
WEIGHT

14.9 Pounds

Assuming normal clotting status, hepatic FNA using 25-gauge needle may be considered for screening cytology, primarily to assess for evidence of inflammatory cells. Hepatosupportive medications and Ursodiol may prove beneficial. Sonographic reassessment of the gallbladder is suggested if increasing hepatic enzymes or evidence of increasing cholestasis are noted.

INTERPRETED BY

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



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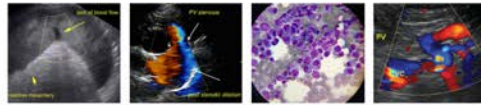


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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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