

PATIENT PRESENTING CLINICAL SIGNS

Brandy Christiansen History seizures controlled on Phenobarbital 15 mg BID. Elevated liver values. On Denamarin QD, Apoquel 5.4 mg QD. Clinically doing well.
 Abnormal PE/Chem/CBC/UA Results: ALP 1077; GGTP 11; triglycer 855

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shih Tzu

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 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. Subtle uniform increased cortex echogenicity noted in both kidneys, expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.4 cm. The right kidney measured 5.1 cm.

AGE

8 Years

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

WEIGHT

20 Pounds

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.39 cm at the cranial pole and 0.47 cm at the caudal pole. The right adrenal gland measured 0.52 cm at the cranial pole and 0.48 cm at the caudal pole.

Spleen

INTERPRETED BY

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

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. A small, likely emerging, echogenic nodule was noted adjacent to the hilus, measuring 0.38 cm in diameter. This is likely consistent with an emerging benign myelipoma and considered. 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

Pamela Harrigan, RDMS

Liver

HOSPITAL NAME

Pine Banks AH

The liver presented enlarged in size. 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. 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. The gallbladder was non distended in size with mild, echogenic, nonmineralized biliary sludge. The cystic duct and common bile ducts were normal without evidence of dilation.

REFERRING VET

Dr. Hasan Syed

Gastrointestinal

INVOICE

25811

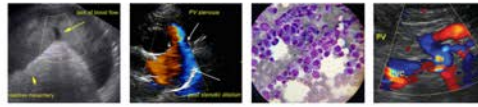
The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

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.

DATE

9/26/21

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



PATIENT

Pancreas

Brandy Christiansen

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.

SPECIES

Canine

PRIMARY FINDINGS

- Vacuolar hepatopathy pattern
- Mild gallbladder debris (non-mucocele)

BREED

Shih Tzu

SECONDARY FINDINGS

- Probable emerging benign splenic nodule – consistent with emerging probable myelolipoma

SEX

Spayed Female

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall appearance of the liver is consistent with benign hepatopathy and suggestive of vacuolar hepatic changes with likely contribution to ALP levels owing to Phenobarbital induction. Given that the ALT was not reported to be elevated, and assuming normal BUN, glucose and albumin levels, this does not appear to be clinically significant at this time. However, continued monitoring of liver enzymes (specifically ALT levels) is recommended. In addition to Denamarin, Ursodiol may prove beneficial given the potential for non-clinical cholestasis. Fasting triglyceride level may be considered if persistently elevated.

WEIGHT

20 Pounds

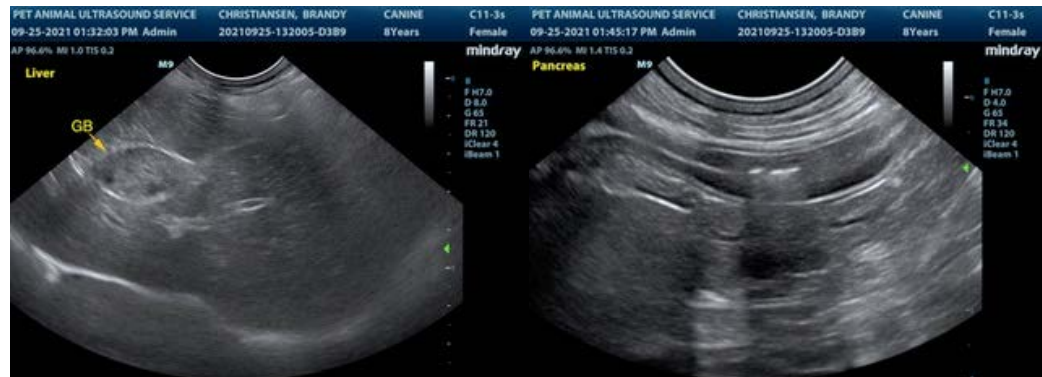


INTERPRETED BY

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

IMAGING PERFORMED BY

Pamela Harrigan, RDCS



HOSPITAL NAME

Pine Banks AH

REFERRING VET

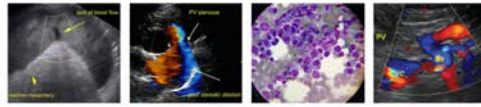
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PATIENT

Brandy Christiansen

SPECIES

Canine

BREED

Shih Tzu

SEX

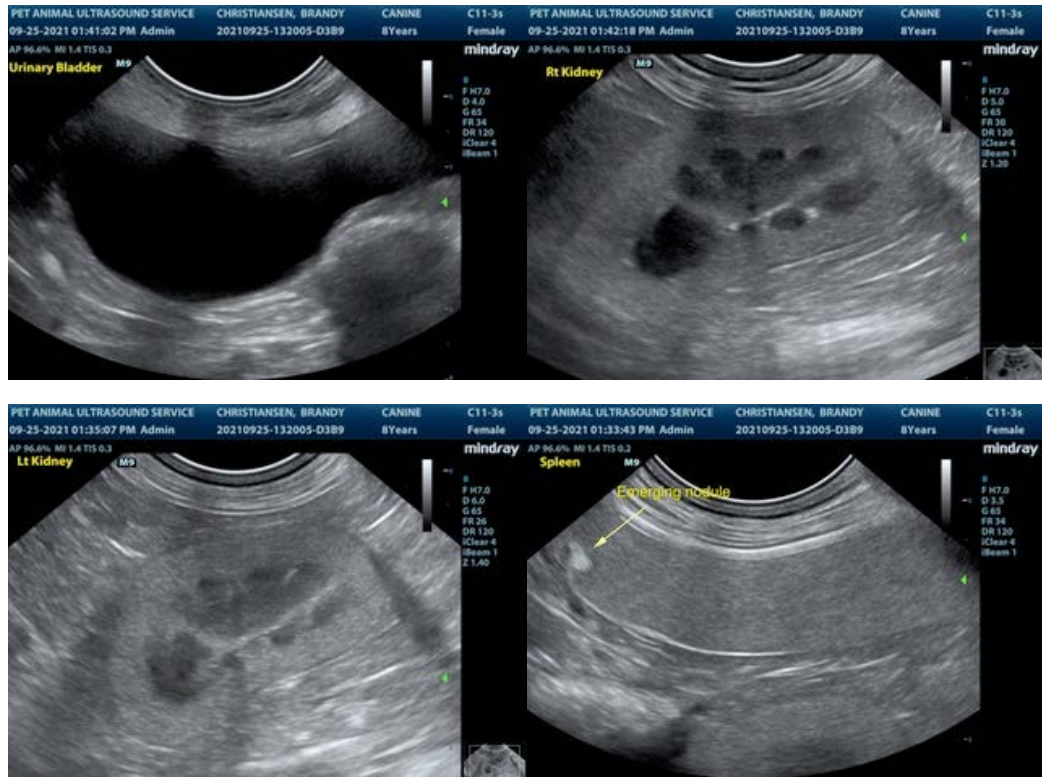
Spayed Female

AGE

8 Years

WEIGHT

20 Pounds



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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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