

PATIENT PRESENTING CLINICAL SIGNS

Winston Paiva History neck pain - did not tolerate NSAIDS. Progressively elevating ALT (942), ALP (1688); GGT (21). No changes in physical exam from previous. No clinical signs. Pain is well controlled on Gabapentin and Amantadine. Also on Denamarin.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Dachshund

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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

Neutered Male

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture. The prostate measured 0.67 cm in width.

The area of the aortic trifurcation was free of pathology.

AGE

13 Years

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. Areas of mild medullary dystrophic mineralization noted in both kidneys along with small cortical cysts. The left kidney measured 5.0 cm. Small parenchymal cysts noted in the right kidney. The right kidney measured 4.9 cm.

WEIGHT

16.1 Pounds

Adrenal Glands

INTERPRETED BY

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

The bilateral adrenal glands were mildly prominent in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. No evidence of adrenal parenchymal mineralization. The left adrenal gland measured 0.76 cm at the cranial pole and 0.68 cm at the caudal pole. The right adrenal gland measured 0.61 cm at the cranial pole and 0.61 cm at the caudal pole and 0.90 cm in width mid right adrenal gland.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Spleen

HOSPITAL NAME

Anchor Animal Hospital

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.

REFERRING VET

Dr. Katherine Pietsch

Liver

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The liver was mildly enlarged with generalized mildly non-uniform increased hepatic parenchyma echogenicity with evidence of parenchymal remodeling. No hepatic masses or nodules. Mild to moderate, mildly congealed gallbladder debris was present primarily in the caudal lumen and area of the gallbladder neck. No overt evidence of gallbladder inflammatory criteria or evidence of peripheral gallbladder inflammation.

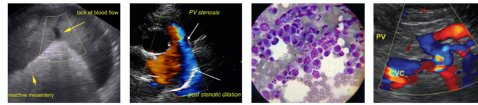
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Gastrointestinal

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. Gastric body wall measured 0.55 cm.

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Intermittent non-specific duodenojejunal hyperechoic mucosal speckling was present. Duodenum wall measured 0.40 cm.



PATIENT Normal visible colon wall layers were present with subjective semi-formed feces in lumen.

Winston Paiva **Pancreas**

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

Canine **Free Abdomen**

BREED No overt lymphadenopathy or peritoneal effusion was present.

Dachshund **ULTRASONOGRAPHIC FINDINGS**

- Hepatopathy exhibiting mild non-uniform increased parenchyma echogenicity – subjectively benign.
- Moderate, mildly congealed gallbladder debris (non-mucocele)
- Moderate chronic renal changes exhibiting mild medullary mineral and small cortical cysts
- Non-specific, mildly prominent bilateral adrenal glands exhibiting non-mineralized parenchymal heterogeneity, small right adrenal parenchymal cysts.
- Non-specific, mild small intestinal mucosa speckling

SEX

Neutered Male

AGE

13 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

16.1 Pounds

The presentation of the liver may indicate vacuolar hepatitis, chronic active hepatitis, cholangiohepatitis, early fibrosis / cirrhosis or other hepatopathy. Neoplasia considered a less likely differential diagnosis yet cannot be excluded. Ultrasound guided FNA of the liver (assuming normal clotting status and using 25-gauge needle) may be considered for screening cytology, primarily to assess for evidence of inflammatory cells. In addition to Denamarin, Ursodiol may prove beneficial.

INTERPRETED BY

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

Age related adrenal changes, adenomatous change, non-functional versus functional hyperplasia, or less likely emerging adrenal neoplasia possible. Screening UCCR +/- LDDST could be considered if clinical suspicion for hyperadrenocorticism. Screening blood pressure and sonographic monitoring of the adrenal glands for evidence of progression would be appropriate.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

The mild small intestinal mucosal speckling is non-specific and may indicate patient or age related variant, although mucosal speckling has at times been associated with mild enteritis if previous history of gastrointestinal signs.

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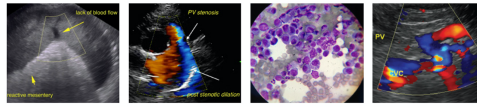
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PATIENT

Winston Paiva

SPECIES

Canine

BREED

Dachshund

SEX

Neutered Male

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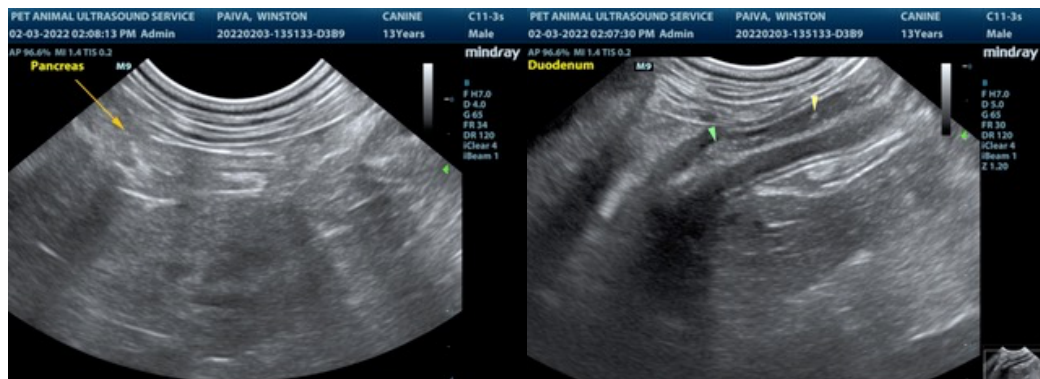
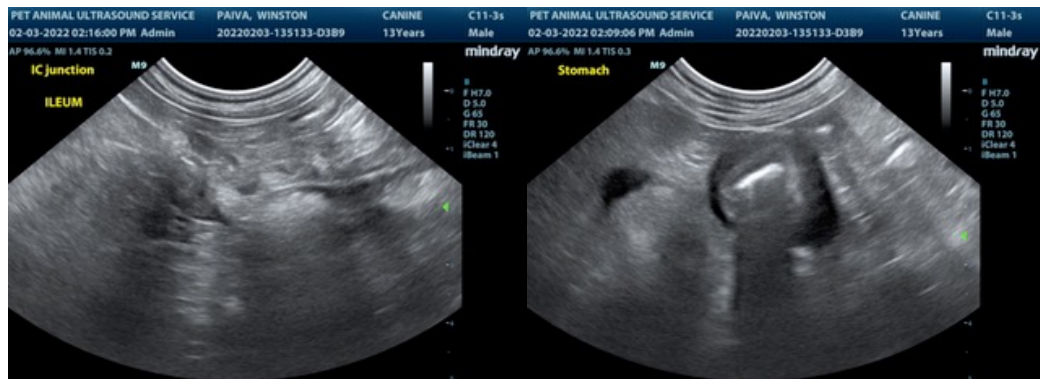
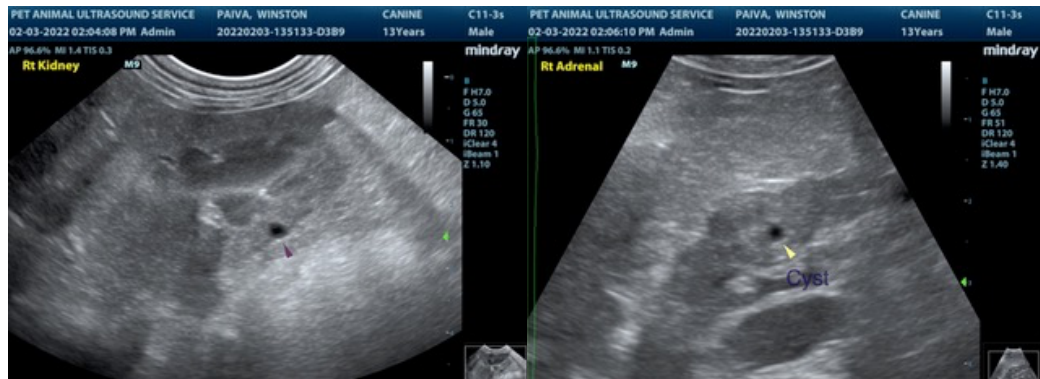
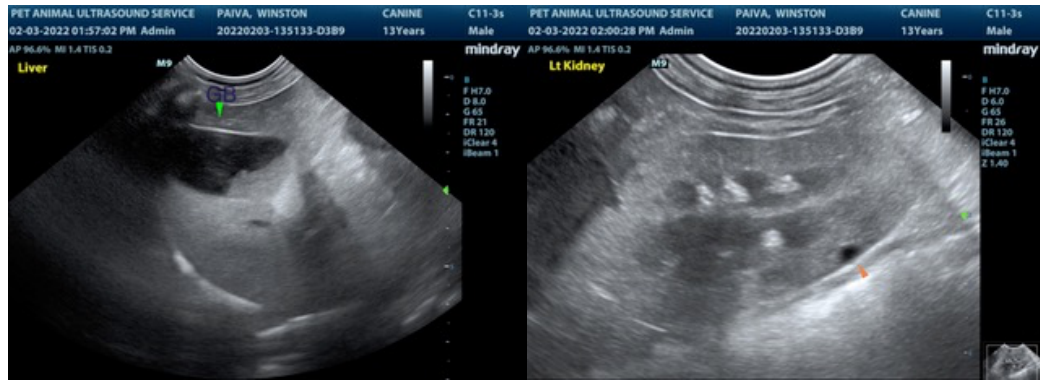
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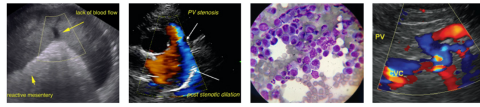
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PATIENT

Winston Paiva

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.

SPECIES

Canine

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.

BREED

Dachshund

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

SEX

Neutered Male

AGE

13 Years

WEIGHT

16.1 Pounds

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