



PATIENT PRESENTING CLINICAL SIGNS

Savannah Barrett History: Anorexia two weeks ago for approximately three days. Appetite has returned. Elevated liver values. CBC WNL. Chem: ALT 396, AST 198, ALP 3630, GGT 104, Total Bili 0.4; Lipase 1,786.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

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.

BREED

Chihuahua Terrier X

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 mildly increased echogenicity and loss of corticomedullary symmetry and definition expected for the age of the patient. Mild bilateral pyelectasia was noted. Focal nonobstructive medullary renoliths were noted in the left kidney. The left kidney measured 4.4 cm in length. The right kidney measured 4.9 cm in length.

AGE

12 years

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

WEIGHT

16 pounds

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.53 cm width at the caudal pole and 0.51 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 0.52 cm width at the caudal pole and 0.57 cm width at the cranial pole.

INTERPRETED BY

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

Spleen

The spleen exhibited normal size with areas of mild capsule asymmetry. Generalized mild mixed echogenic splenic parenchyma was present. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Liver

The liver presented increased in size. The parenchyma of the liver was subjectively increased in echogenicity compared to the spleen and renal cortices. The echotexture of the liver parenchyma was uniform with a mild coarse echotexture. The capsule of the liver was symmetrical in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal.

HOSPITAL NAME

Paxton Animal Hospital

REFERRING VET

Dr. Wang DVM

Gastrointestinal

The stomach presented mild wall thickening secondary to echogenic mucosa hypertrophy. Mildly prominent yet intact wall layering was maintained owing to regional mildly prominent gastric mucosa. Mild gastric distension with mild retained primarily anechoic to mildly echogenic fluid was present without evidence of retained ingesta or shadowing. The gastric body wall measured 0.42 cm in width.

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The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Subtle evidence of duodenal mucosal speckling was observed. The duodenum wall measured 0.48 cm in width. The jejunum wall measured 0.40 cm in length. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

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



PATIENT

Savannah Barrett

Pancreas

The pancreas presented normal in size with subtle areas of minor capsule asymmetry.

SPECIES

Nonhomogeneous to echogenic pancreatic parenchyma was present in the pancreas base and right pancreatic limb.

Canine

Free Abdomen

BREED

No overt lymphadenopathy or peritoneal effusion was present.

Chihuahua Terrier X

ULTRASONOGRAPHIC FINDINGS

SEX

- Hepatopathy exhibiting generalized parenchymal hyperechogenicity, sonographically unremarkable GB.
- Mild chronic renal changes exhibiting left kidney nonobstructive renoliths and minor bilateral pyelectasia.
- Echogenic to nonhomogeneous pancreas-parenchymal remodeling potentially owing to previous inflammatory episode, low grade to chronic persistent pancreatitis possible.
- Suspect persistent mild to resolving gastroduodenitis.

Spayed female

AGE

12 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

16 pounds

The appearance of the liver was nonspecific but may indicate steroid or other vacuolar hepatopathies, chronic hepatitis/cholangiohepatitis, lipidosis, or fibrosis while round cell hepatic neoplasia cannot be excluded. Assuming normal coagulation parameters, ultrasound guided FNA of the liver using a 25-gauge needle would be warranted for cytology, primarily to assess for evidence of inflammatory cells and to rule out round cell neoplasia. Vitamin K administration would be suggested prior to FNA if elected.

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

Although the bilateral adrenal glands were not overtly consistent with hyperplasia and without evidence of tumors, adrenal screening could be considered if clinical signs suggestive of adrenal hyperfunction are present.

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Hepatosupportive medications including Denamarin and Ursodiol are recommended and may prove beneficial. Continued as needed GI supportive care owing to potential persistent to resolving duodenitis and possible chronic pancreatitis is recommended.

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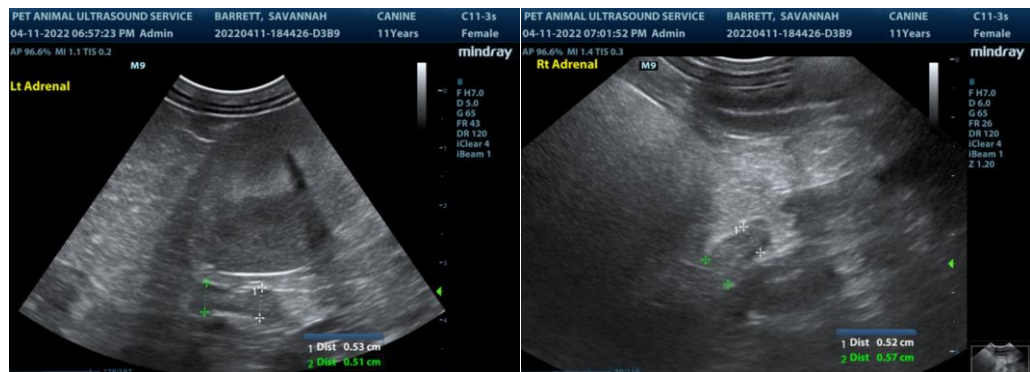
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Chihuahua Terrier X

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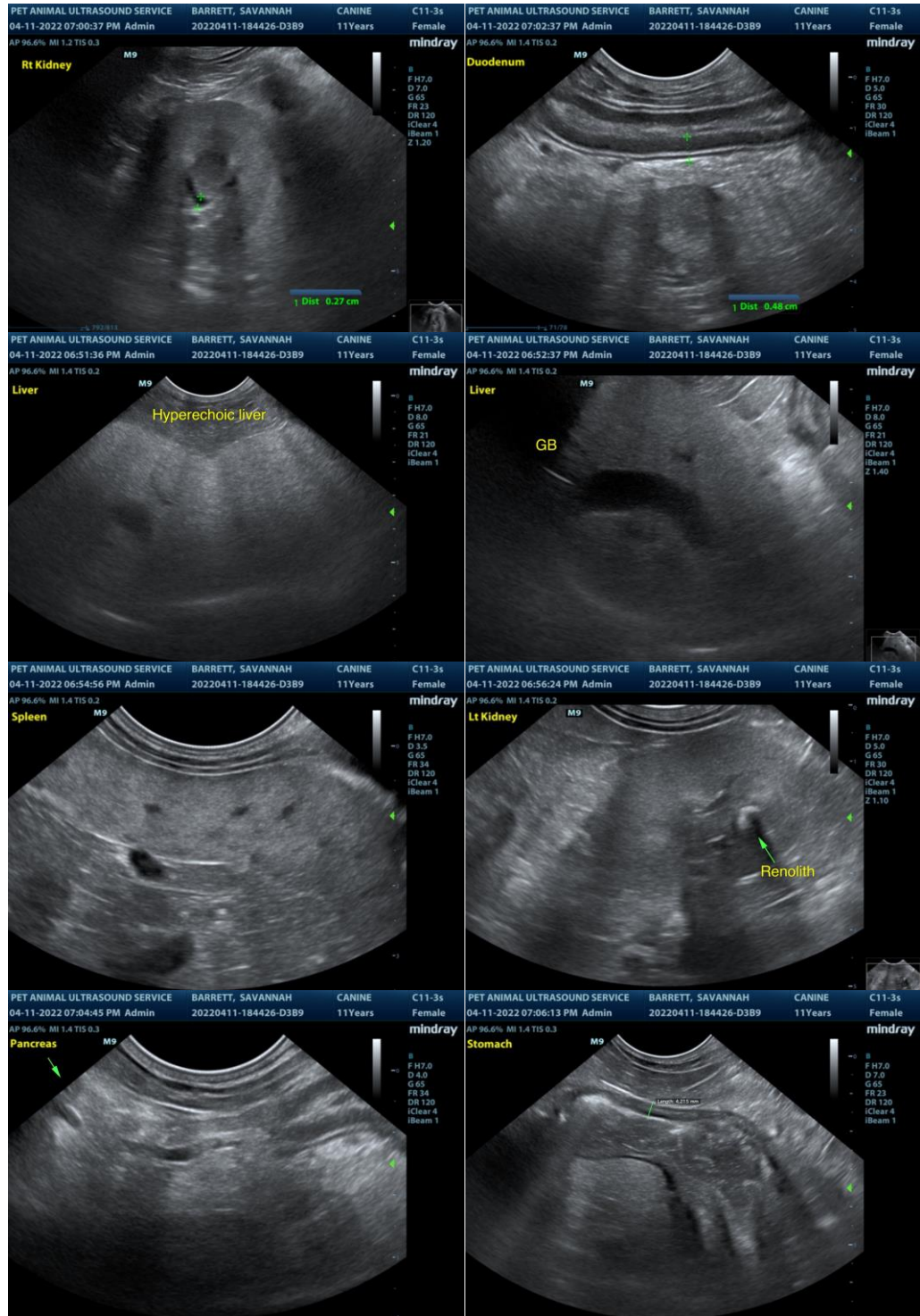
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



PATIENT

Savannah Barrett

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SPECIES

Canine

BREED

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SEX

Spayed female

AGE

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WEIGHT

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