



PATIENT PRESENTING CLINICAL SIGNS

Sally Dailey Doing well clinically. Bile acids pre 2.5, post 39

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SPECIES

Canine

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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

Yorkshire Terrier

SEX

FS

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 moderate loss of corticomedullary symmetry and definition expected for the age of the patient. Bilateral discrete pinpoint medullary mineralization and mild pyelectasia was present. The left kidney measured 2.9 cm in length. The right kidney measured 3.0 cm in length.

AGE

11yr

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.32 cm width in the cranial pole and 0.37 cm width in the caudal pole. The right adrenal gland measured 0.34 cm width in the cranial pole and 0.37 cm width in the caudal pole.

WEIGHT

4.8lb

Spleen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.

INTERPRETED BY

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

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Liver/Gallbladder

The liver presented borderline 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 primarily anechoic luminal content. The cystic and common bile ducts were normal.

HOSPITAL NAME

Pine Banks Animal Hospital

REFERRING VET

Dr. Syed

Gastrointestinal

The stomach presented wall thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. Mild gastric distension with primarily anechoic fluid was present. The gastric body wall measured 0.47 cm in width.

INVOICE

13370ag

DATE

04/03/2023

The small intestine presented intact wall layering with potential mildly prominent segmental muscularis layer. Discrete intermittent non-specific duodenal hyperechoic mucosal speckling was present. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. The duodenum wall measured 0.46 cm width. The jejunum wall measured 0.43 cm width.



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

Sally Dailey **Pancreas**

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

SPECIES

Canine **Free Abdomen**

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

BREED

ULTRASONOGRAPHIC FINDINGS

Yorkshire Terrier

- Subjective borderline mild hepatomegaly with normal vascular volume.
- Normal gallbladder.
- Chronic renal changes with minor pyelectasia.
- Heterogenous mild variable hyperechoic pancreas-patient/ age related variant, remodeling owing to previous inflammatory episode or mild to chronic pancreatitis possible.
- Intact mildly prominent gastric and segmental intestinal wall layering with minor retained gastric fluid-nonspecific.

SEX

FS

AGE

11yr

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The pyelectasia may be owing to chronic renal changes, potential pelvic scarring possibly owing to previous calculi passage or IV fluid therapy (if applicable). Urine C/S and protein: creatinine ratio on sterile urine sample is recommended. No evidence of extrahepatic or intrahepatic macroscopic shunt.

WEIGHT

4.8lb

The GI presentation may suggest mild inflammatory criteria, however given the lack of GI signs in this patient this finding is non-specific with potential for patient variant. Low grade to chronic pancreatitis may be considered if there is evidence of cranial abdominal or subxiphoid discomfort on palpation.

INTERPRETED BY

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

Suggest monitoring for evidence of GI signs going forward. Hepatosupportive medications and gastroprotectants with monitoring of liver enzymes +/- bile acid levels if clinically indicated would be reasonable.

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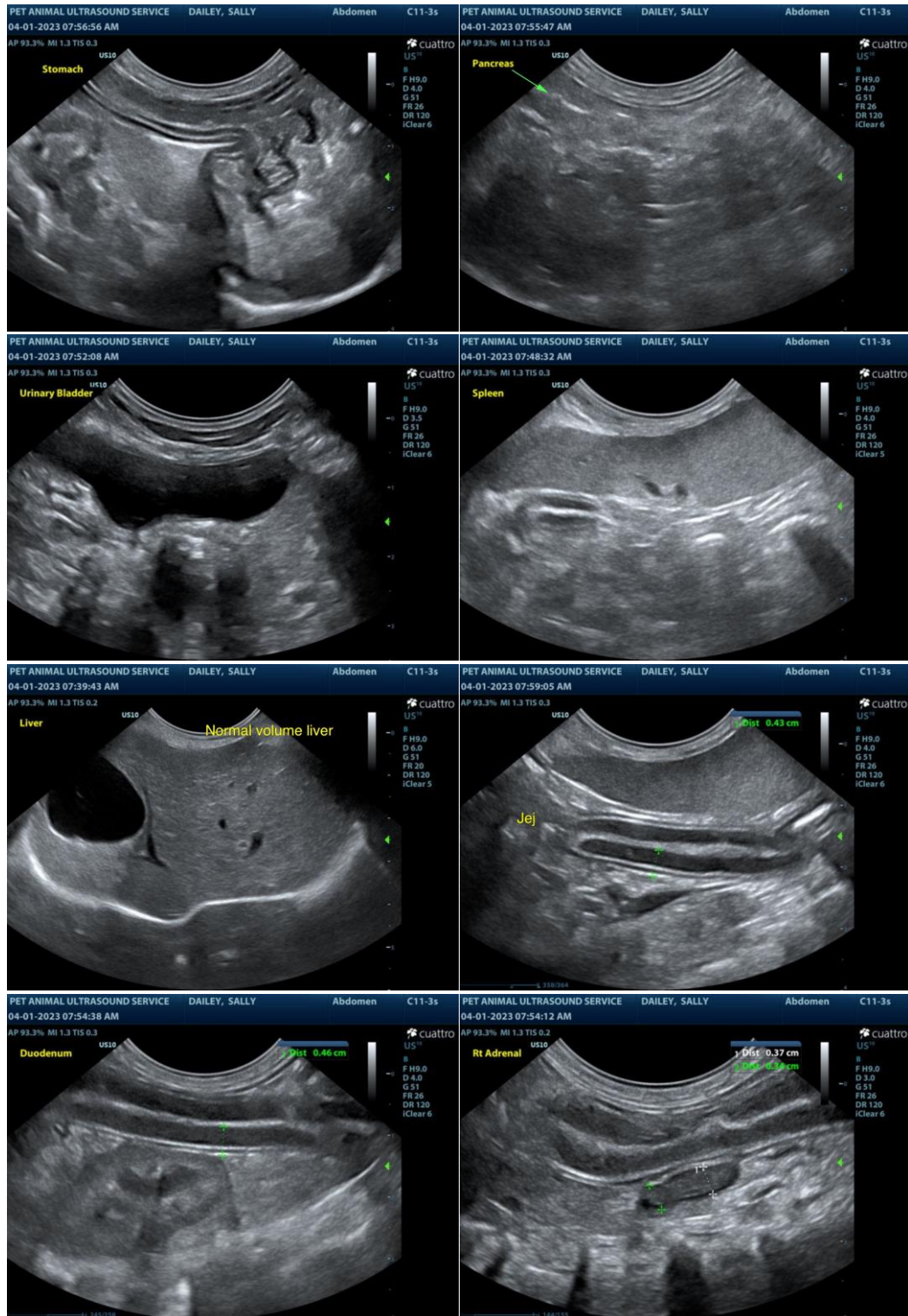
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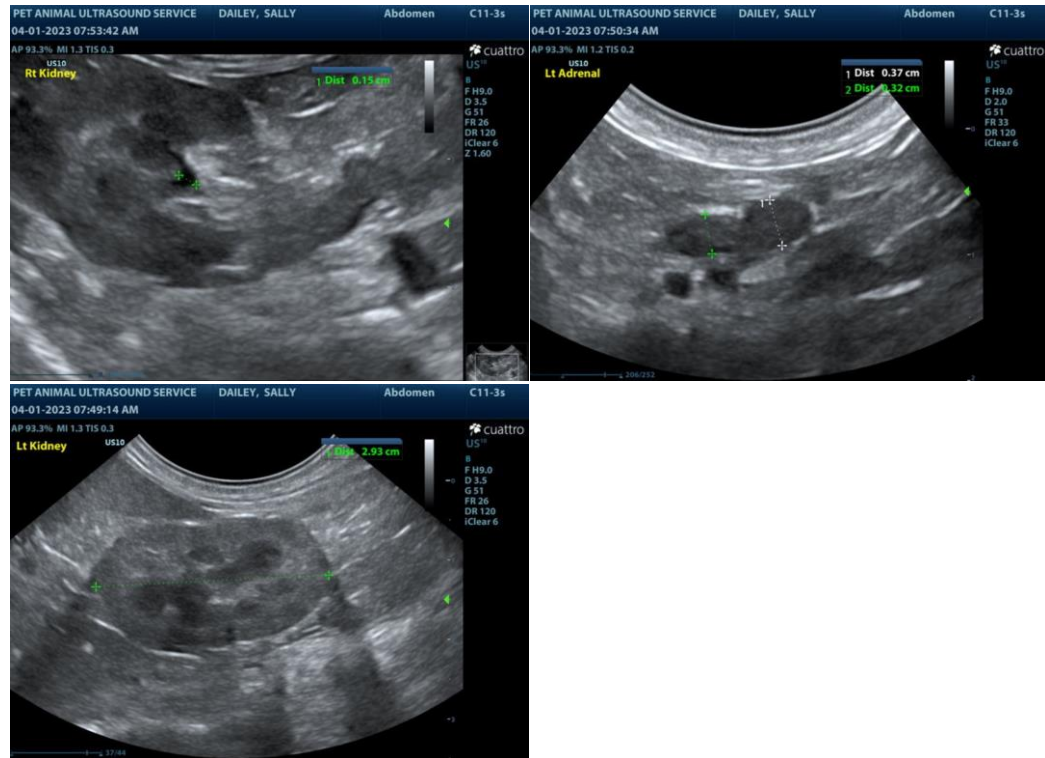
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

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