



PATIENT PRESENTING CLINICAL SIGNS

Rudy Sherren History: decreased appetite, vomiting, elevated liver values currently on ampicillin, metro, vetergesic
Abnormal PE/Chem/CBC/UA Results: elevated TP, Alb, glob, alk, GGT, Tbil, Chol, WBC, neut

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED 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 No evidence of pathology in the area of the residual prostate or aortic trifurcation.

Neutered Male 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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.4 cm in length. The right kidney measured 4.7 cm in length. Subtle increased corticomedullary echogenicity was present.

AGE

11 Years

Adrenal Glands

WEIGHT

20.4 Pounds

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 1.7 cm length x 0.50 cm width in the caudal pole. The right adrenal gland measured 1.4 cm length x 0.50 cm width in the caudal pole. No evidence of adrenal hyperplasia or neoplasia noted.

INTERPRETED BY

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

Spleen

IMAGING PERFORMED BY

Kelly Reschny

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.

HOSPITAL NAME

Dog & Cat Clinic of
Niagara

Liver

REFERRING VET

Sneider

The liver presented normal in size. The hepatic parenchyma revealed diffuse mild decreased echogenicity compared to falciform fat and spleen. Increased portal vein prominence was evident. The capsule of the liver was normal in margination. Distinct masses or nodules were not evident. The hepatic and portal vasculature were normal in appearance. The gallbladder was non-distended with mildly echogenic to prominent walls and mild non-dependent yet non-organized echogenic luminal debris. The cystic and common bile ducts were normal. No evidence of post hepatic obstruction.

INVOICE

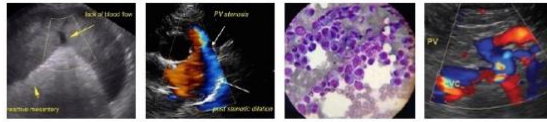
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Gastrointestinal

DATE

8/18/21

The stomach presented wall thickening secondary to mild echogenic mucosa hypertrophy. The stomach was empty with mild luminal gas. No evidence of retained gastric ingesta, fluid or foreign material. The gastric body wall measured 0.40 cm.



PATIENT

Rudy Sherren

The duodenum exhibited intact yet subjective mild prominent wall layering with mild upper duodenal ileus. Duodenum wall measured 0.45 cm wall width. The jejunum and ileum were sonographically unremarkable. The jejunum measured 0.35 cm.

SPECIES

Canine

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

Pancreas

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

BREED

Maltese

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

SEX

Neutered Male

ULTRASONOGRAPHIC FINDINGS

Primary Findings

AGE

11 Years

- Hepatopathy-subjectively acute or acute on chronic
- Mild cholecystitis with mild non-organized luminal debris (non-mucocele)
- Gastroduodenitis
- Heterogeneous pancreas

WEIGHT

20.4 Pounds

Secondary Findings

- Bilateral mild to moderate chronic renal changes

INTERPRETED BY

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DABVP (Canine and
Feline)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall appearance of the liver was non-specific yet suggestive of acute or acute on chronic hepatopathy, vacuolar hepatopathy and hepatic cholestasis. Given the ALP/GGT elevation, hepatic parenchymal or hepatobiliary inflammatory process given the suspected cholestasis and gallbladder debris with unlikely potential for occult hepatic neoplasia possible. Further assessment may include hepatic FNA using a 25-gauge needle and assuming normal clotting status +/- leptospirosis titers/PCR if clinically indicated.

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The heterogeneous pancreas may suggest age-related pancreatic changes or low-grade chronic inflammation if evidence of cranial abdominal subxiphoid pain. Correlation with a spec CPL may be considered. Empirically, continued gastrointestinal support, hepatosupportive medications (including Denamarin and Ursodiol) would be appropriate.

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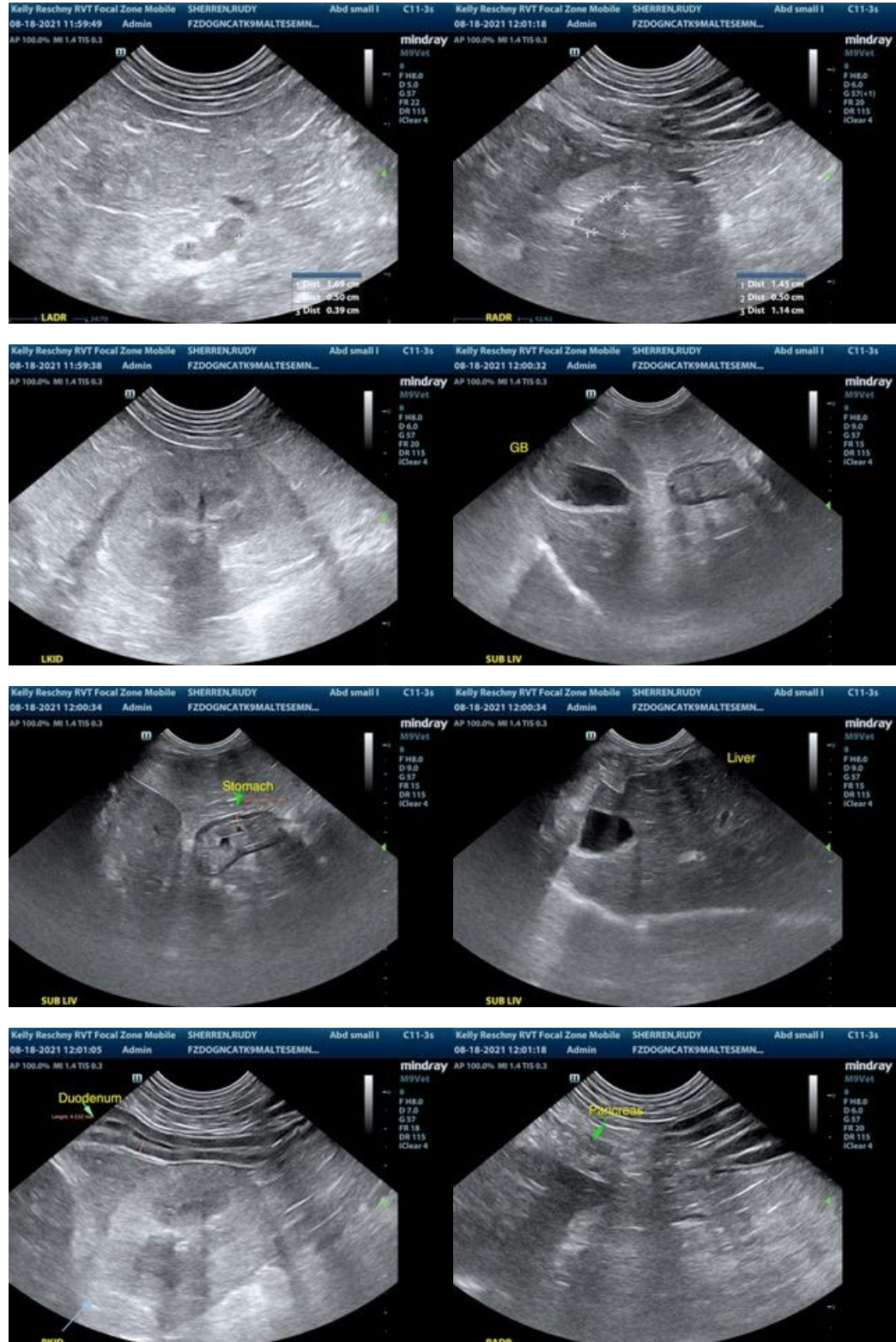
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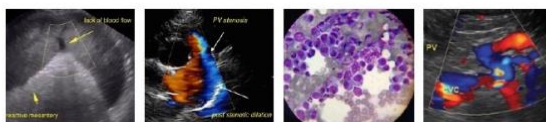
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)
info@SonoPath.com