



PATIENT PRESENTING CLINICAL SIGNS

Rukus Heilman Presented at our hospital for not eating for several days, mouth has an odor, lip smacking, laying around in different areas. Previous Health Concerns: none
SPECIES Abnormal PE/Chem/CBC/UA Results: Rads: rounded liver empty bowel Cbc: wbc 4.9; hct 48%
 Chem: T bili; 4.4 alp 269 epoc : lactate 6.5; glucose 143; K+ 3.5

Feline **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

BREED *Urinary System*

DSH 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 were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 4.3 cm. The right kidney measured 4.6 cm. No evidence of overt pyelonephritis.

AGE

7 Years The area of the aortic trifurcation was free of pathology.

WEIGHT

9 kg *Adrenal Glands*
 The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The adrenals measured 0.36 cm in width each.

INTERPRETED BY *Spleen*

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. 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. The spleen measured 1.0 cm in width.

IMAGING PERFORMED BY

Erin Wicks *Liver*

HOSPITAL NAME

Shores VEC The liver was generally enlarged. 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 moderate 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. No evidence of post-hepatic obstruction.

REFERRING VET

Dr. Lupole *Gastrointestinal*

INVOICE

25099 The stomach exhibited sonographically unremarkable walls without evidence of mural hypertrophy or other mural pathology. The stomach exhibited generalized mild to moderate gas distention. Gastric body wall measured 0.24 cm. No evidence of retained ingesta or gastric foreign material, although the gastric gas distention prohibited full evaluation of the gastric interior.

DATE

9/1/21 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. Jejunum wall measured 0.21 cm. Duodenum wall measured 0.25 cm.



PATIENT

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

Rukus Heilman

Pancreas

SPECIES

The left pancreatic limb caudal to the gastric fundus and body exhibited subtle prominent size, symmetrical contour, and heterogeneous to mildly hypoechoic parenchyma compared to adjacent omentum.

Feline

Free Abdomen

BREED

Generalized mild non-specific increased omental echogenicity noted. No overt evidence of concurrent lymphadenopathy or overt free fluid.

DSH

ULTRASONOGRAPHIC FINDINGS

SEX

- Hepatomegaly with generalized increased parenchyma echogenicity - vacuolar hepatic changes, chronic hepatitis/cholangiohepatitis, lipidosis, fibrosis, or round cell neoplasia possible.

Spayed Female

- Sonographically unremarkable gallbladder and common bile duct - no evidence of post-hepatic obstruction.

AGE

7 Years

- Heterogeneous to hypoechoic pancreas - potential for mild active to chronic active pancreatitis.

- Mild gas distended stomach with sonographically unremarkable small bowel

WEIGHT

9 kg

- Generalized mildly echogenic omentum - non-specific, potential for omental reactivity, no overt evidence of peritonitis.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

Assuming normal clotting status, ultrasound guided FNA of the liver using 25-gauge needle warranted for screening cytology, primarily to assess for evidence of inflammatory cells or neoplasia. Vitamin K administration suggested prior to hepatic FNA if elected. Serum cobalamin levels suggested if lipidosis is confirmed. Assessment for evidence of cranial abdominal or subxiphoid discomfort in the area of the pancreas suggested. Empirically, medical therapy for pancreatitis/hepatopathy with as-needed gastrointestinal support would be appropriate. Continued monitoring for evidence of possible increasing omental echogenicity and/or free fluid suggested.

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

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HOSPITAL NAME

Shores VEC

REFERRING VET

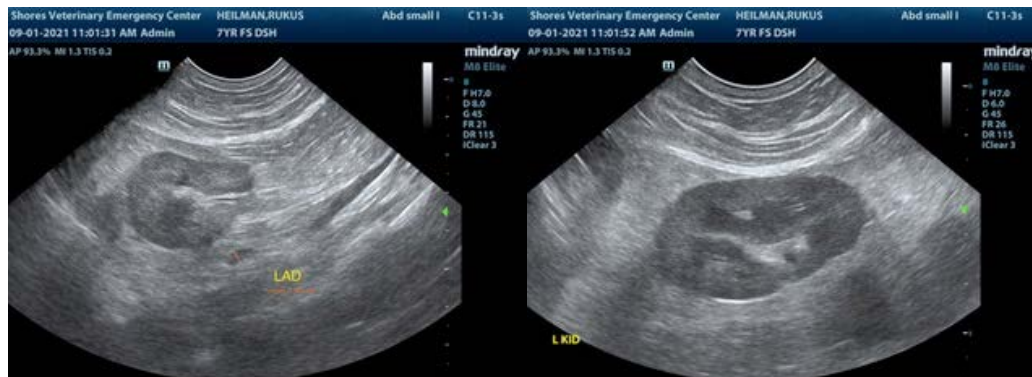
Dr. Lupole

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PATIENT

Rukus Heilman

SPECIES

Feline

BREED

DSH

SEX

Spayed Female

AGE

7 Years

WEIGHT

9 kg

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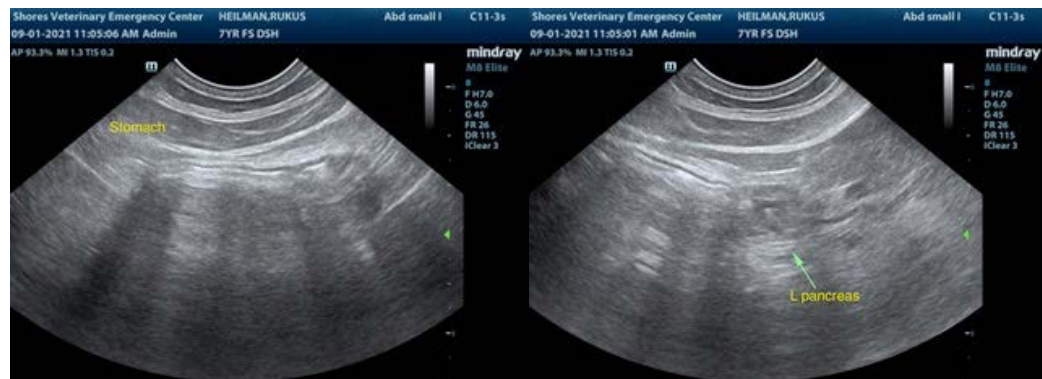
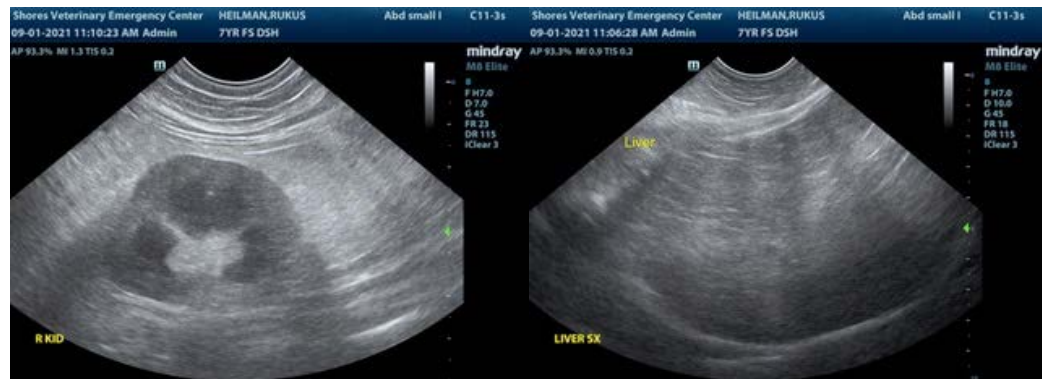
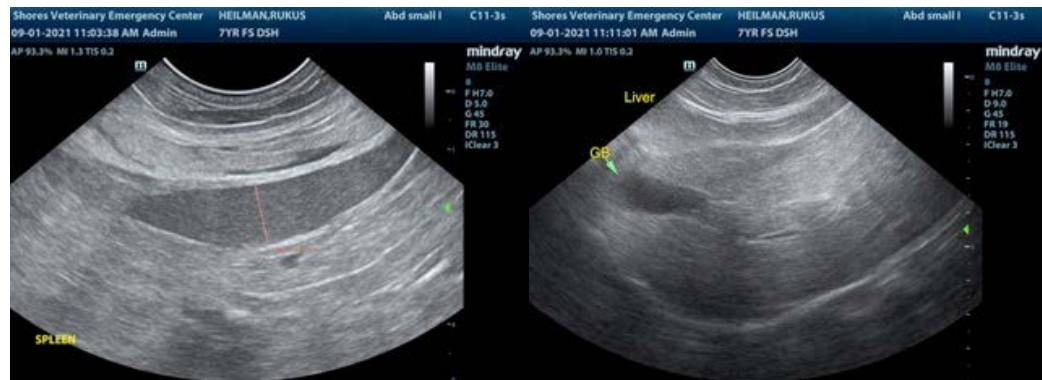
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PATIENT

Rukus Heilman

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

Feline

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

DSH

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

SEX

Spayed Female

AGE

7 Years

WEIGHT

9 kg

INTERPRETED BY

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**IMAGING
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