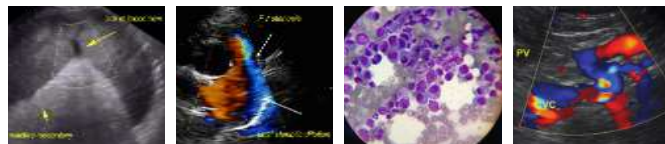




PATIENT	PRESENTING CLINICAL SIGNS
Apollo Gruber	Not eating or drinking for the past 3 weeks. Not up to date on vaccines. Abnormal PE/Chem/CBC/UA Results: H AST 81 H ALT 342 H Alk Phos 1439 H Total Bilirubin 15.6 H Creatinine 9.5 L Sodium 134 L Chloride 90
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	<i>Urinary System</i>
BREED	The urinary bladder was subnormal in size owing to lack of urine distension. Full evaluation of the urinary bladder walls was limited owing to lack of urine distension yet generalized mild mural hypertrophy possible. The urinary bladder wall measured 0.86 cm width. No sediment or calculi was noted. The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4.0 cm exhibited normal thickness and tone. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.
Hound/Mix	
SEX	No evidence of pathology in the area of the residual prostate.
MN	No evidence of pathology in the area of the aortic trifurcation.
AGE	Normal size and margination was present in the kidneys. Mild loss of corticomedullary border demarcation with subtle uniform increased cortex echogenicity was present in both kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. Subtle evidence of left kidney retroperitoneal free fluid was noted. The left kidney measured 7.2 cm in length. The right kidney measured 7.0 cm in length.
3 Years	
WEIGHT	<i>Adrenal Glands</i>
55 lbs	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.63 cm width at the caudal pole and 0.48 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 0.70 cm width at the caudal pole and 0.97 cm width at the cranial pole.
INTERPRETED BY	<i>Spleen</i>
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. A solitary non-expansive subtly hypoechoic nodule measuring 0.66 cm was present in the lateral parenchyma.
IMAGING PERFORMED BY	<i>Liver / Gallbladder</i>
Kim Liedberg	The liver presented mildly enlarged in size. The hepatic parenchyma revealed diffuse reduced echogenicity compared to the spleen and renal cortical parenchyma with a mild coarse echotexture. 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.
HOSPITAL NAME	
SVS Imaging WI	
REFERRING VET	
Dr. Vivek	
INVOICE	
47911	The gallbladder was non-distended with moderate nondependent yet nonorganized echogenic luminal debris with suspect minor peripheral luminal mucus. The common bile ducts was normal and without evidence of stasis, obstruction, or dilation.
DATE	<i>Gastrointestinal</i>
10-22-21	



PATIENT	The stomach presented intact yet mildly prominent wall layering with mild luminal gas and without evidence of retained ingesta, fluid, or foreign material. The gastric body wall width measured 0.54 cm.
Apollo Gruber	
SPECIES	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no evidence of small intestinal mechanical or metabolic ileus. The jejunum wall width measured 0.44 cm.
Canine	
BREED	<i>Pancreas</i>
Hound/Mix	The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.
SEX	<i>Free Abdomen</i>
MN	Intermittent mesenteric and focal medial iliac mildly prominent to enlarged lymph nodes present. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5).
AGE	Mild primarily peri-hepatic reactive mesentery was noted.
3 Years	
WEIGHT	ULTRASONOGRAPHIC FINDINGS
55 lbs	Primary
INTERPRETED BY	<ul style="list-style-type: none"> • Probable nonspecific nephritis. • Acute hepatopathy with mild regional primarily peri-hepatic reactive mesentery - acute hepatitis (infectious, toxin, or other) congestion, reactive hepatopathy, or occult hepatic neoplasia considered less likely differential diagnosis. • Moderate gallbladder debris - potential cholecystitis or possible early/noninflamed gallbladder mucocele. • Gastroenterocolitis pattern with intermittent subjectively benign / reactive mesenteric lymph nodes.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	
IMAGING PERFORMED BY	Secondary
Kim Liedberg	<ul style="list-style-type: none"> • Mild cystitis. • Non-expansive splenic nodule - nonspecific, probable focal area of lymphoid hyperplasia or hematopoiesis likely.
HOSPITAL NAME	
SVS Imaging WI	
REFERRING VET	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Dr. Vivek	Assuming normal clotting status, ultrasound guided FNA of the liver for screening cytology and leptospirosis titers/pcr warranted. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered. Hospitalization with IV fluid and gastrointestinal support with electrolytic supplementation, broad spectrum antibiotics for acute hepatitis, and potential coverage of leptospirosis with assessment of clinical response recommended. Recheck sonogram if persistent to increasing liver enzymes or evidence of cholestasis suggested.
INVOICE	
47911	
DATE	
10-22-21	



PATIENT

Apollo Gruber

SPECIES

Canine

BREED

Hound/Mix

SEX

MN

AGE

3 Years

WEIGHT

55 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

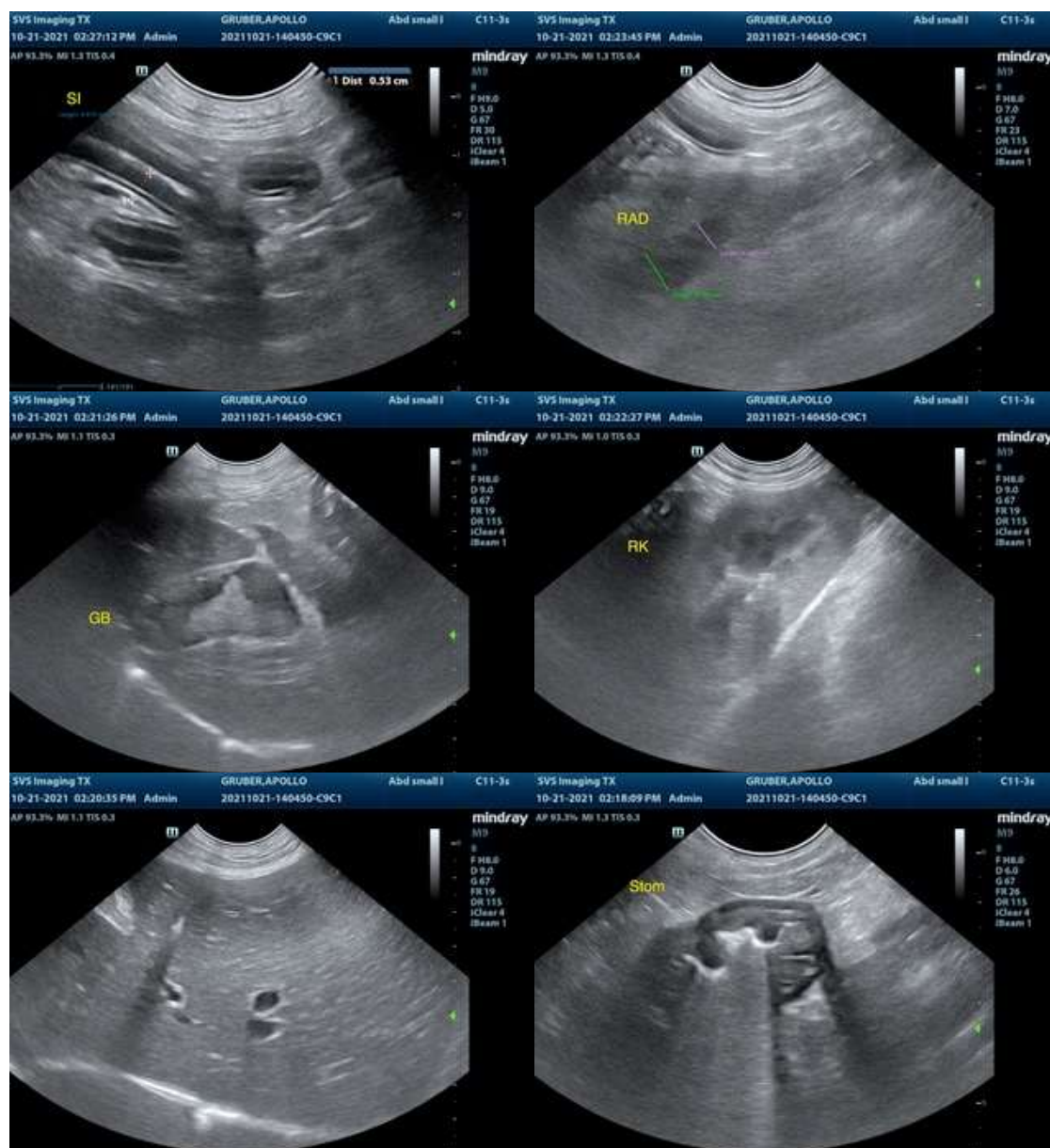
Dr. Vivek

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47911

DATE

10-22-21





PATIENT

Apollo Gruber

SPECIES

Canine

BREED

Hound/Mix

SEX

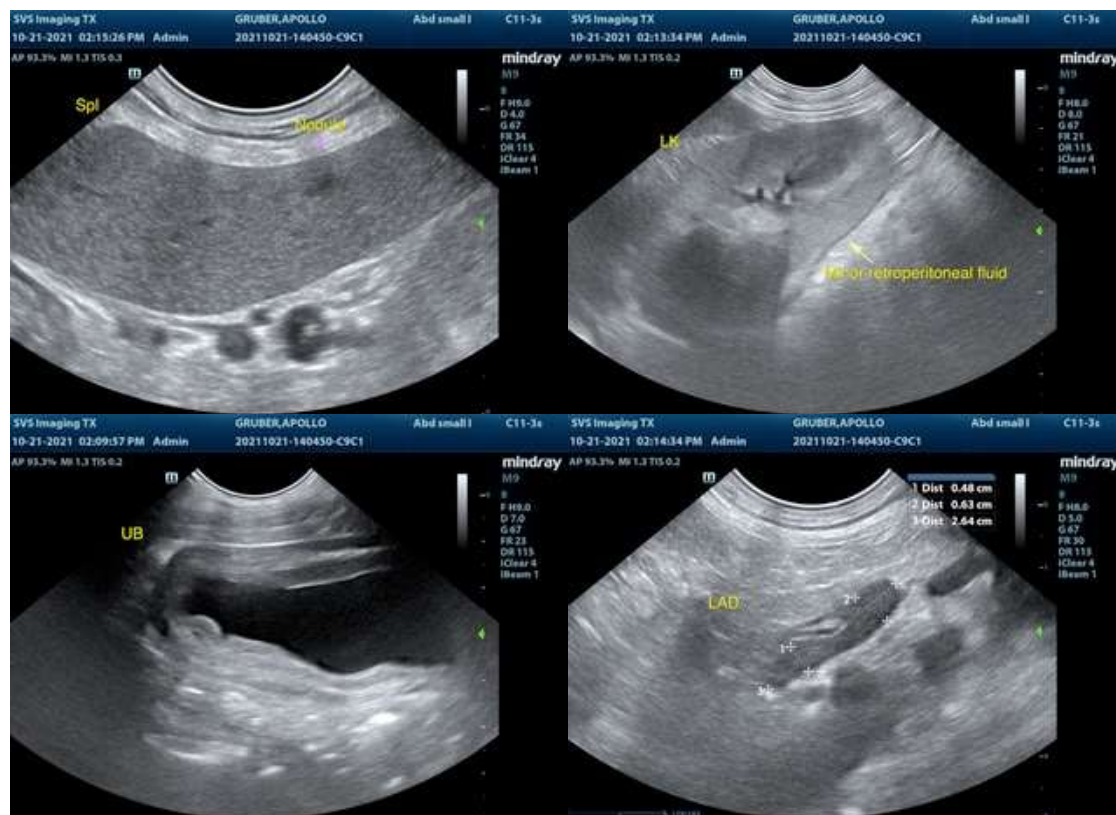
MN

AGE

3 Years

WEIGHT

55 lbs



INTERPRETED BY

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

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

Dr. Vivek

INVOICE

47911

DATE

10-22-21

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