



PATIENT

Hailey Grebelsky

SPECIES

Canine

BREED

Mix

SEX

Spayed Female

AGE

10 year

WEIGHT

38.2 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Newton VH

REFERRING VET

Dr. Kim

INVOICE

94727

DATE

12/20/21

PRESENTING CLINICAL SIGNS

History: Not eating, vomiting. Hx of chronic hepatitis, nodular hyperplastic changes. Last AUS 9/2019 through Budd Lk. Current meds: Prednisone, Ursodiol, Denamarin
Abnormal PE/Chem/CBC/UA Results: Neut 14.33 (H), Lymph 0.51(L), Eos 0.03 (L), TP 5.3(L), Gluc 187(H), ALT 483(H), ALP 538(H).

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Primarily anechoic urine was present in the lumen. Echogenic to particulate sediment was present without evidence of calculus formation. The echogenicities were mild and non-dependent. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.

Aortic trifurcation was normal.

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 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 4.8 cm in length. The right kidney measured 5.0 cm in length.

Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia and no evidence of adrenomegaly. The left adrenal gland measured 1.7 x 0.71 cm width in the caudal pole. The right adrenal gland measured 1.5 x 0.63 cm width in the caudal pole.

Spleen

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.

Liver

The liver exhibited generalized enlargement with symmetrical to swollen left and right hepatic contour owing to regional lobar swelling. The overall hepatic echogenicity was normal compared to the falciform fat of the spleen with moderate coarse architecture. There were no distinct hepatic masses or nodules. However, there is a potential for hepatoma like masses may be possible. The gallbladder was non-distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal.



PATIENT	Gastrointestinal
Hailey Grebelsky	The stomach presented intact wall layering with a mildly prominent wall layer ratio. The lumen of the stomach was empty with mild luminal gas. There was no evidence of retained gastric fluid, ingesta or foreign material. The ventral gastric body wall measured 0.7 cm.
SPECIES	
Canine	The intestinal walls demonstrated intact wall layering and maintained 1:3 muscularis / mucosa ratio. The mucosa exhibited mild decreased echogenicity with occasional mucosal speckling. A segmental to diffuse ileus pattern consisting of mild fluid accumulation in the intestinal lumen was present without obstruction or foreign material. There was no loss of intestinal mural wall layering or other mural pathology. The duodenal wall measured 0.4 cm and the jejunal wall measured 0.38 cm.
BREED	
Mix	Normal visible colon wall layers were present with apparent formed feces in lumen.
SEX	
Spayed Female	Pancreas
	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.
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WEIGHT	Free Abdomen
38.2 lbs	No overt lymphadenopathy or peritoneal effusion was present.
INTERPRETED BY	ULTRASONOGRAPHIC FINDINGS
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	PRIMARY FINDINGS:
IMAGING PERFORMED BY	<ul style="list-style-type: none"> • Hepatopathy exhibiting uniform parenchyma with lobar swelling, there is a potential for hepatoma like masses, although not definitive. • Acute gastroenteritis pattern. • Mild age related kidneys. • Mild urinary bladder sediment. The urinary bladder sediment may suggest cellular / crystalline debris or mucus. Cystocentesis for UA +/- C/S if evidence of inflammatory cells is recommended.
Shari Reffi, CVT	
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REFERRING VET	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Dr. Kim	Subjectively the overall liver suggests chronic benign hepatopathy. Metabolic, reactive or vacuolar hepatopathy, non-specific hepatitis (viral, bacterial, immune mediated, etc.) with malignant hepatic neoplasia considered a less likely differential diagnosis. Assuming normal clotting status resampling of the liver via FNA or biopsy may be considered. There is a potential for low-grade or chronic pancreatitis may be present, yet ultrasonographically normal. Hospitalization with supportive IV fluids to correct potential dehydration or electrolyte abnormalities with as needed gastrointestinal support should prove beneficial. Sonographic reassessment of the gastrointestinal tract is recommended if persistent gastrointestinal signs are non-responsive to supportive therapy.
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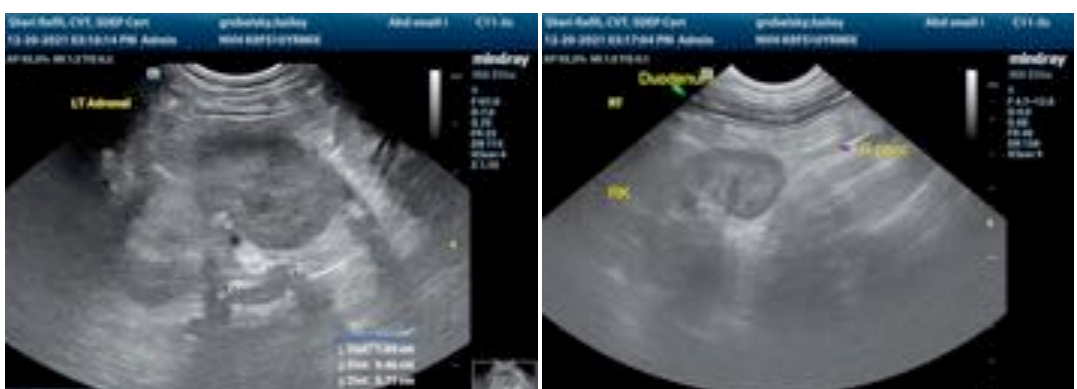
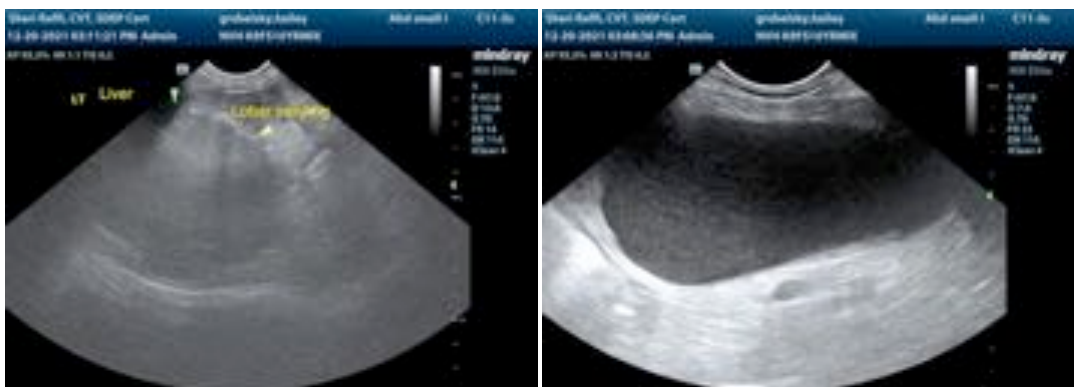
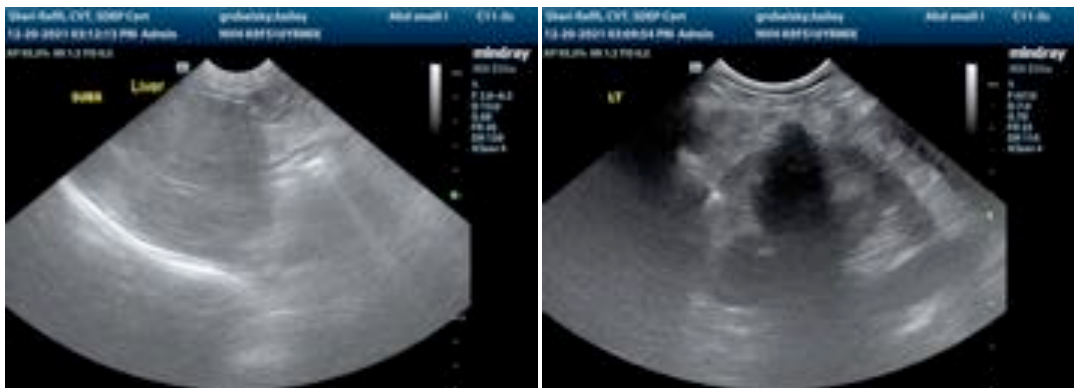
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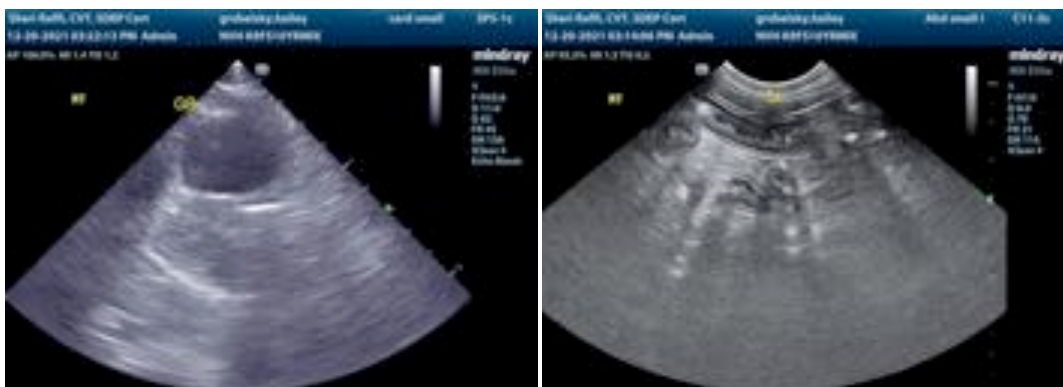
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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