



PATIENT	PRESENTING CLINICAL SIGNS
Kila McCutcheon	Patient body score 5/5 Lethargic weak marked icterus for last 3 days now is tachycardic
SPECIES	Abnormal PE/Chem/CBC/UA Results: Hematocrit 25 48 hours ago now 20 Bilirubin 26.2 48 hrs ago now 280 Mod to severe elevation amylase lipase and ALT ALP
Canine	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
BREED	Urinary System
German Shepherd	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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 was noted.
SEX	No evidence of pathology in the area of the aortic trifurcation.
FS	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 8.0 cm in length. The right kidney measured 7.0 cm in length.
AGE	
8	
WEIGHT	
57 kg	
INTERPRETED BY	Adrenal Glands
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The left and right adrenal glands were overtly normal in size, position, and shape. The left adrenal gland measured 0.65 cm width at the caudal pole and 0.53 cm width at the cranial pole. The right adrenal gland measured 0.49 cm width at the caudal pole and 0.65 cm width at the cranial pole.
IMAGING PERFORMED BY	Spleen
Dr. Belan	The spleen was enlarged in size with folding yet primarily maintained a symmetrical capsule contour exhibiting generalized mild parenchyma heterogeneity. Potential focal subtle hyperechoic splenic nodules, suggestive of myelolipoma criteria, were noted. There were no visualized splenic masses with overtly normal splenic vascularity.
HOSPITAL NAME	Liver/ Gallbladder
Alpine 24/7	The liver was mildly enlarged in size with normal structure and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with overtly normal walls and primarily anechoic luminal content with mild non-dependent, focally congealed, nonorganized gallbladder sediment. No evidence of inflammatory criteria was noted. The cystic and common bile ducts were normal.
REFERRING VET	
Dr. Nelson	
INVOICE	Gastrointestinal
14888	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction, or foreign material.
DATE	
8/23/23	



PATIENT	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.
Kila McCutcheon	
SPECIES	Normal visible colon wall layers were present with apparent formed feces in lumen.
Canine	Pancreas
BREED	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 were evident.
German Shepherd	Free Abdomen
SEX	Focal to intermittent mesenteric lymph node was present. The lymph node was essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). The lymph node measured 1.7 cm x 0.55 cm. There was no evidence of lymphatic, neoplastic or inflammatory criteria. There were no omental masses, lymphadenopathy or evidence of peritoneal effusion.
FS	
AGE	
8	
WEIGHT	ULTRASONOGRAPHIC FINDINGS
57 kg	<ul style="list-style-type: none"> Enlarged folded mildly nonhomogeneous spleen - breed-associated hypersplenism, hyperplasia, hematopoiesis, incidental or concurrent splenitis, infiltrative neoplasia possible Enlarged, mildly nonhomogeneous liver - nonspecific hepatopathy, vacuolar hepatopathy, inflammatory / immune-mediated disease, hyperplasia, hematopoiesis, nonobstructive cholestasis, occult infiltrative hepatic neoplasia possible Nondistended gallbladder containing mild nondependent focally congealed gallbladder sediment - not consistent with mucocele criteria Sonographically unremarkable gastrointestinal tract / pancreas
INTERPRETED BY	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Assuming normal clotting status, using a 25-gauge needle, and with adequate platelet count, screening hepatosplenic FNA cytology is warranted for further assessment, primarily to assess for evidence of occult hepatosplenic infiltrative criteria, given potential for hemolysis. Three-view chest radiographs are suggested if not already done. There was no overt evidence of post hepatic obstructive criteria.
IMAGING PERFORMED BY	
Dr. Belan	
HOSPITAL NAME	
Alpine 24/7	
REFERRING VET	
Dr. Nelson	Pending hepatosplenic FNA cytology, which is required for further clarification, some or all of the following protocol may be considered.
INVOICE	
14888	<i>(Note: ensure no underlying neoplasia as IMHA/Evans syndrome can occur as paraneoplastic manifestation especially in lymphoma/round cell neoplasia)</i>
DATE	
8/23/23	Anemia +/- thrombocytopenia with spherocytes/autoagglutination in dogs and hyperbilirubinemia, bilirubinuria. (NOTE: cats do not get spherocytes in IMHA) Consider Onion/Garlic derivative ingestion if Heinz bodies present.
	Prednisone (K9) Prednisolone (Feline): 2 mg/kg Sid/Bid initially x 3 weeks then attempt taper Aspirin 0.5 mg/kg Sid owing to hypercoagulable state



PATIENT

Kila McCutcheon

Sucralfate 0.5-1 g po tid dogs, 0.5 g bid cats in slurry
Doxycycline if infectious suspected clinically or based on CBC path review:
Dogs, Cats: 10 mg/kg p.o. q24h with food or water bolus in cats

SPECIES

Canine

Long-term management dogs: Azothiaprine 2 mg/kg Sid or Cyclosporine 10mg/kg po sid bid

BREED

German Shepherd

SEX

FS

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

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Alpine 24/7

REFERRING VET

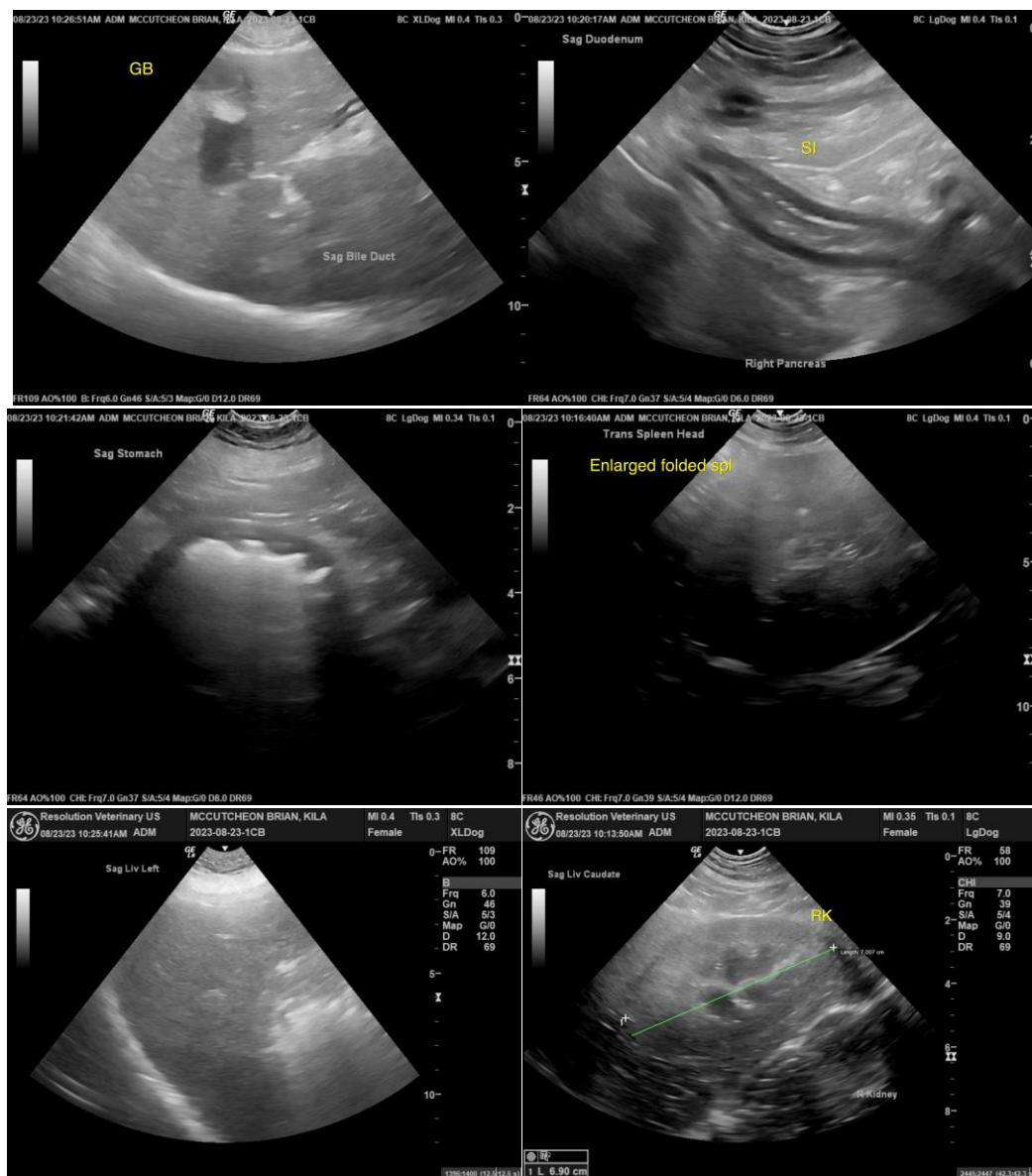
Dr. Nelson

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PATIENT

Kila McCutcheon

SPECIES

Canine

BREED

German Shepherd

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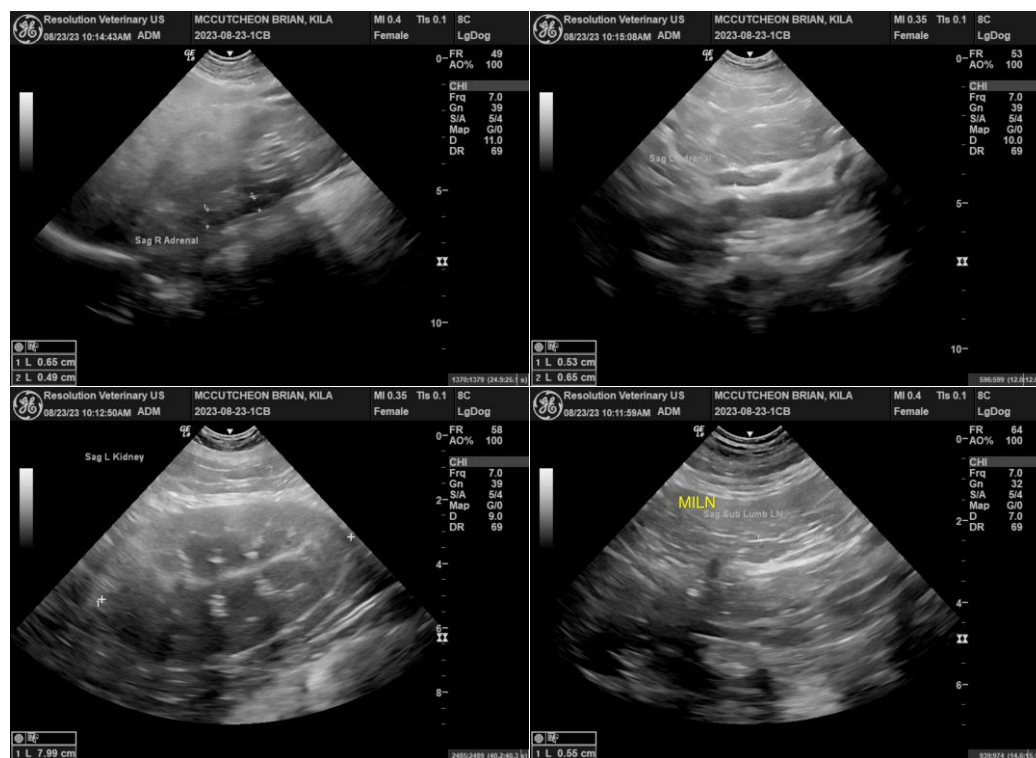
Dr. Nelson

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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)
info@sonopath.com