



PATIENT	PRESENTING CLINICAL SIGNS
Huckleberry Hopkins	Elevated LE noted when presented for vomiting that responded to symptomatic treatment.
SPECIES	Abnormal PE/Chem/CBC/UA Results: ALT 819, ALP 254 RADS: unremarkable
Canine	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
BREED	Urinary System
Terrier Mix	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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	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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. Mild pyelectasia and a small caudal cortical cyst was present in the left kidney. A small caudal cortical cyst was present in the right kidney. The left kidney measured 4.2 cm in length. The right kidney measured 4.5 cm in length.
MN	The area of the aortic trifurcation was free of pathology.
AGE	The area of the residual prostate appeared normal and free of pathology.
14yr	Adrenal Glands
WEIGHT	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.54 cm width at the caudal pole and 2.0 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.58 cm width at the caudal pole and 2.2 cm length.
17lb	Spleen
INTERPRETED BY	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.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Liver
IMAGING PERFORMED BY	The liver presented enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen 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 and focal congealed mildly echogenic luminal debris or small gallbladder polyp possible measuring 0.75 cm in diameter. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.
Dr. Ebersole	Gastrointestinal
HOSPITAL NAME	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.
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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.
Huckleberry Hopkins	Normal visible colon wall layers were present with apparent formed feces in lumen.
SPECIES	<i>Pancreas</i>
Canine	The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum, likely consistent with age related changes and considered incidental. No signs of active inflammation or neoplasia.
BREED	<i>Free Abdomen</i>
Terrier Mix	No omental masses, overt lymphadenopathy or peritoneal effusion was present.
SEX	ULTRASONOGRAPHIC FINDINGS
MN	<ul style="list-style-type: none"> Benign hepatopathy-suspect chronic parenchymal disease given the elevated ALT with potential for vacuolar hepatic changes and non-obstructive cholestasis given the ALP elevation. No evidence of hepatic neoplasia
AGE	<ul style="list-style-type: none"> Focal minor congealed gallbladder debris vs polyp Mild chronic renal changes with mild cortical cysts and scant left kidney pyelectasia Minor pancreatic remodeling Sonographically unremarkable GI tract
14yr	
WEIGHT	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
17lb	Assuming normal clotting status and using a 25g needle, a hepatic FNA for screening cytology could be considered for further assessment to assess for inflammatory cell type of present.
INTERPRETED BY	
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	A leptospirosis titer/PCR may be considered if clinically indicated or if potential exposure/endemic to the area. Hepatosupportive medications such as Denamarin or Vitamin E as well as Ursodiol may prove beneficial.
IMAGING PERFORMED BY	Likely age-related pancreatic changes are present and are incidental. The potential for pancreatitis may be considered if evidence of cranial abdominal or subxiphoid discomfort on palpation.
Dr. Ebersole	The potential for resolving inflammatory gastroenteropathy cannot be definitively excluded. As needed GI supportive care is recommended.
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PATIENT

Huckleberry Hopkins

SPECIES

Canine

BREED

Terrier Mix

SEX

MN

AGE

14yr

WEIGHT

17lb

INTERPRETED BY

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DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Ebersole

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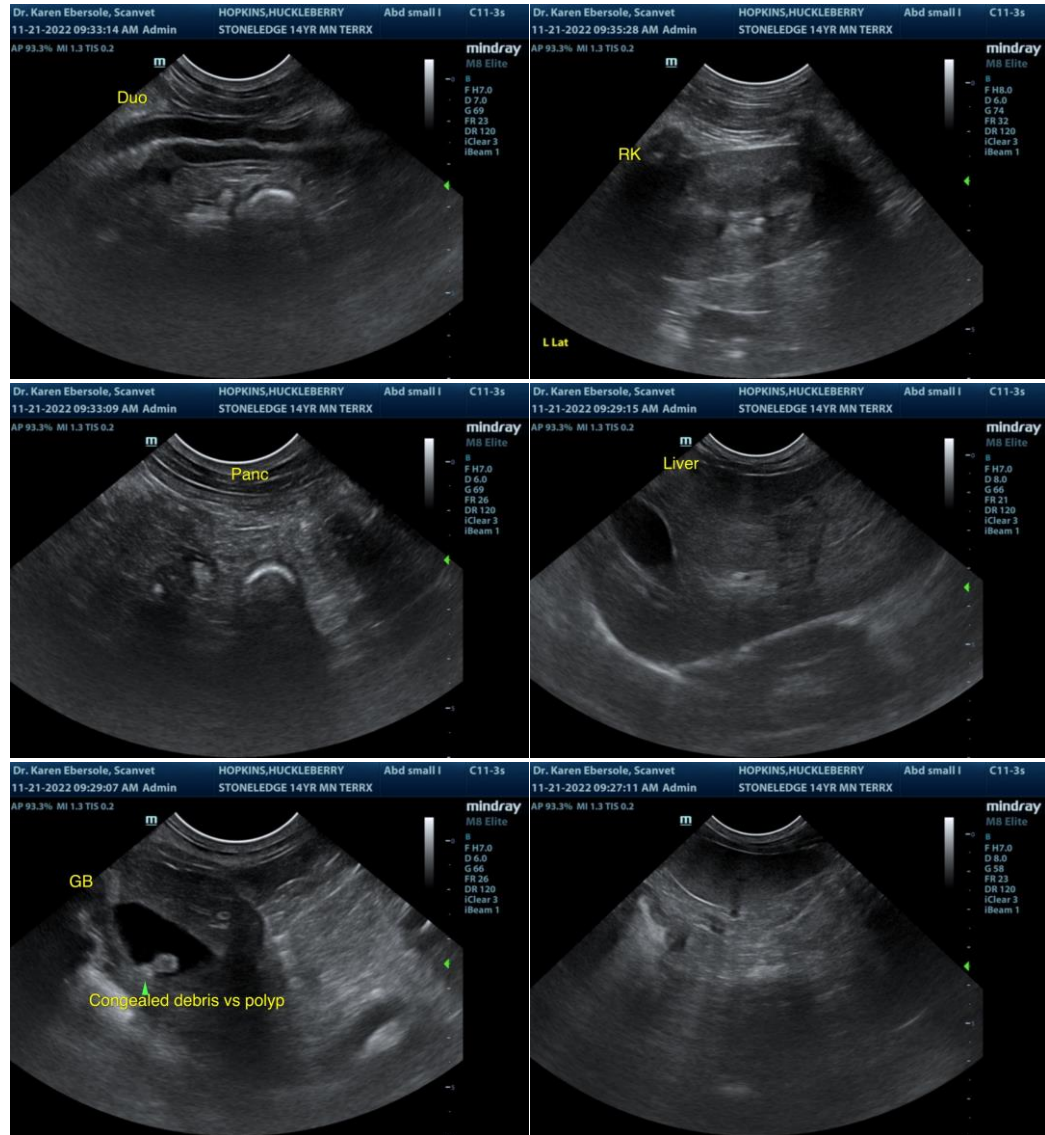
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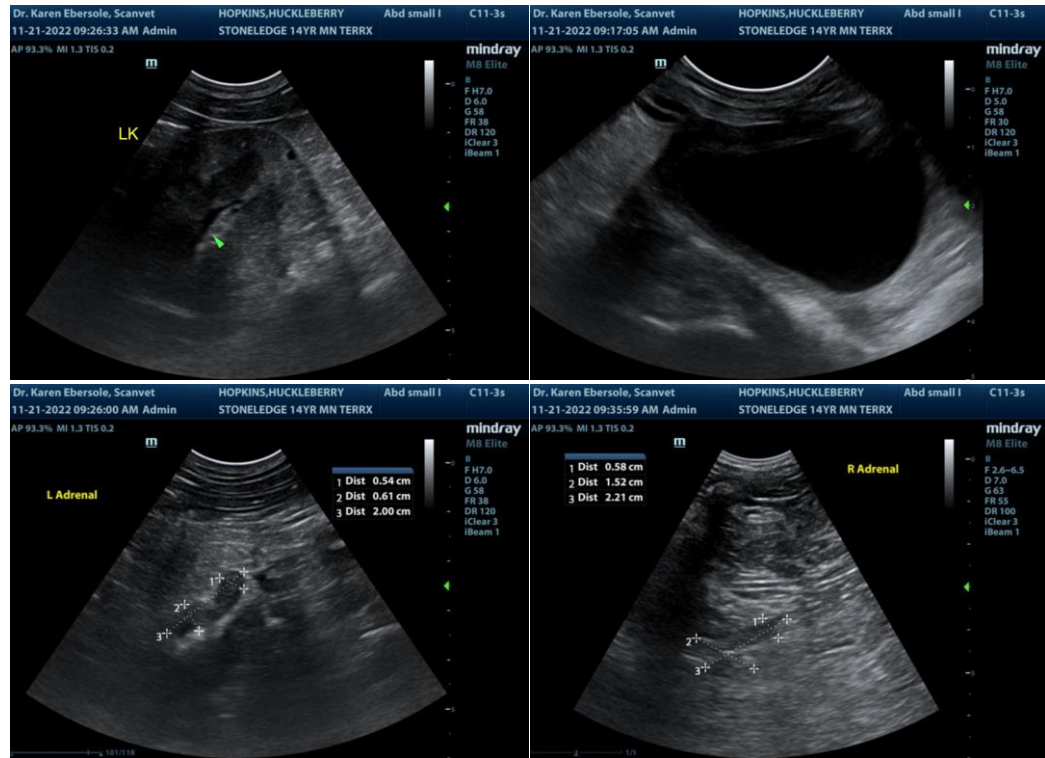
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

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