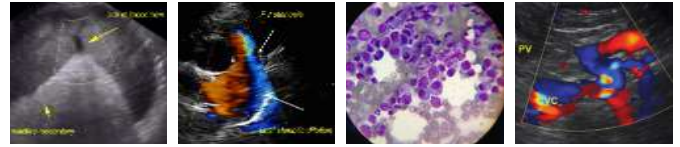




<b>PATIENT</b>	<b>PRESENTING CLINICAL SIGNS</b>
Bunny Henderson	Weight loss Abnormal PE/Chem/CBC/UA Results: Increased ALT, ALKP, GGT, lipase, cholersterol. CK
<b>SPECIES</b>	<b>ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN</b>
Canine	<i>Urinary System</i>
<b>BREED</b>	The urinary bladder, trigone, cystourethral 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.
Pomeranian	No evidence of pathology in the area of the uterine stump or aortic trifurcation.
<b>SEX</b>	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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.5 cm in length. The right kidney measured 4.6 cm in length.
Female Spayed	
<b>AGE</b>	<i>Adrenal Glands</i>
14	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.51 cm width at the caudal pole and 0.54 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 0.65 cm width at the caudal pole and 0.71 cm width at the cranial pole.
<b>WEIGHT</b>	
18	<i>Spleen</i>
<b>INTERPRETED BY</b>	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)	<i>Liver / Gallbladder</i>
<b>IMAGING PERFORMED BY</b>	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.
Trae Cutchin	The gallbladder was non distended in size with mild echogenic, nonmineralized gallbladder debris. No evidence of gallbladder wall inflammation or peripheral gallbladder inflammation. The cystic duct and common bile ducts were normal without evidence of dilation.
<b>HOSPITAL NAME</b>	<i>Gastrointestinal</i>
Friendship Springs Veterinary Care	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. The gastric body wall width measured 0.28 cm.
<b>REFERRING VET</b>	The small intestine presented intact wall layering with subjective propensity for potential generalized prominent mucosa. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. The duodenum wall width measured 0.32 cm and the jejunum wall width measured 0.24 cm.
Trae Cutchin	
<b>INVOICE</b>	
48310	
<b>DATE</b>	
11-12-21	



<b>PATIENT</b>	Normal visible colon wall layers were present with subjective formed to semi-formed feces in lumen.
Bunny Henderson	<b>Pancreas</b>  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.
<b>SPECIES</b>	<b>Free Abdomen</b>  No omental masses, lymphadenopathy, or peritoneal effusion was present.
Canine	
<b>BREED</b>	
Pomeranian	<b>ULTRASONOGRAPHIC FINDINGS</b>
<b>SEX</b>	<ul style="list-style-type: none"> <li>• Hepatopathy.</li> <li>• Mild gallbladder debris (nonmucocele).</li> <li>• Mild chronic renal changes.</li> <li>• Sonographically unremarkable gastrointestinal tract.</li> </ul>
Female Spayed	
<b>AGE</b>	<b><u>INTERPRETATION OF THE FINDINGS &amp; FURTHER RECOMMENDATIONS</u></b>
14	The overall appearance of the liver was nonspecific yet overall suggestive of benign hepatopathy. Potential considerations may include vacuolar hepatopathy and cholestasis in light of elevated ALP/GGT combination and presence of gallbladder debris with potential for primary or concurrent nonspecific hepatitis/cholangiohepatitis (infectious, immune mediated) in light of elevated ALT as well as presence of gallbladder debris. No overt evidence of hepatic nodules or masses with hepatic neoplasia considered a less likely differential diagnosis.
<b>WEIGHT</b>	
18	
<b>INTERPRETED BY</b>	Further assessment may include, assuming normal clotting status, ultrasound guided FNA of the liver for screening cytology and potential identification of inflammatory cell type, if present, as well as rule out unlikely potential for neoplasia.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The possibility of underlying endocrinopathy is considered less likely given lack of reported clinical signs. However, adrenal testing may be considered if clinically indicated.
<b>IMAGING PERFORMED BY</b>	Hepatosupportive medications and ursodiol may prove beneficial.
Trae Cutchin	Structurally insignificant gastrointestinal disease, likewise, cannot be definitively excluded. A GI panel to include PLI/TLI/Cobalamin/Folate, given the patient's weight loss, as well as three view chest radiographs to rule out occult thoracic pathology are recommended.
<b>HOSPITAL NAME</b>	
Friendship Springs Veterinary Care	
<b>REFERRING VET</b>	
Trae Cutchin	
<b>INVOICE</b>	
48310	
<b>DATE</b>	
11-12-21	



**PATIENT**

Bunny Henderson

**SPECIES**

Canine

**BREED**

Pomeranian

**SEX**

Female Spayed

**AGE**

14

**WEIGHT**

18

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Trae Cutchin

**HOSPITAL NAME**

Friendship Springs  
Veterinary Care

**REFERRING VET**

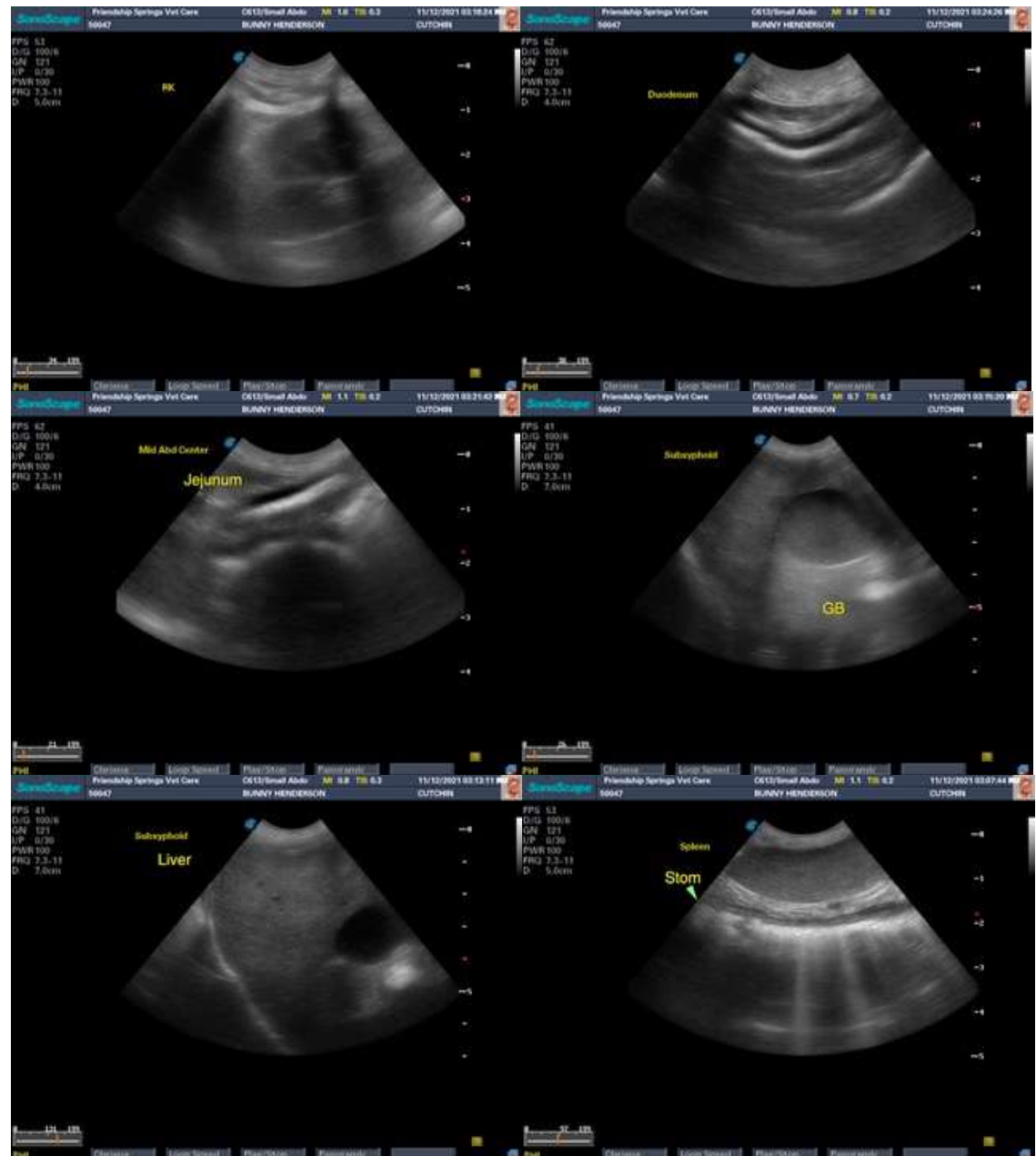
Trae Cutchin

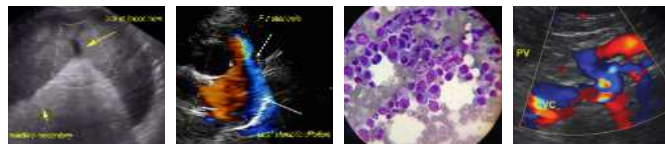
**INVOICE**

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**DATE**

11-12-21





## PATIENT

Bunny Henderson

## SPECIES

Canine

## BREED

Pomeranian

## SEX

Female Spayed

## AGE

14

## WEIGHT

18

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Trae Cutchin

## HOSPITAL NAME

Friendship Springs  
Veterinary Care

## REFERRING VET

Trae Cutchin

## INVOICE

48310

## DATE

11-12-21



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