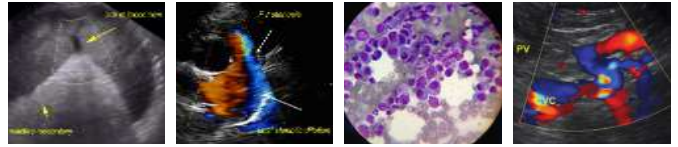


<b>PATIENT</b>	<b>PRESENTING CLINICAL SIGNS</b>
Elke Carroll	Hypoalbuminemia, azotemic. R/O nephrotic syndrome, PLE Abnormal PE/Chem/CBC/UA Results: Bun 83, Creat 3.8, Phos 9.9, AIB 1.3, A/G Ratio 0.4, Chol 403, PLT 61, Lyme +, USG 1.026 cysto pending, BP 150
<b>SPECIES</b>	<b>ULTRASONOGRAPHIC EXAMINATION 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 3.0 cm exhibited normal thickness and tone. Primarily anechoic urine was present in the lumen. Mild nondependent particulate sediment potentially indicative of mild cellular debris / protein crystalline debris or minor mucus was present without evidence of calculus formation. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.
Shepherd Mix	
<b>SEX</b>	No evidence of pathology in the area of the aortic trifurcation. No evidence of distal aortic thrombus or medial iliac/sublumbar lymphadenopathy.
FS	
<b>AGE</b>	Normal size and margination was present in the kidneys. Both kidneys exhibited uniform mild cortex hypertrophy with mild uniform increased cortex echogenicity and mild reduced medullary volume. No evidence of pyelectasia. The left kidney measured 6.5 cm in length. The right kidney measured 6.2 cm in length.
3 Years, 4 Months	
<b>WEIGHT</b>	<i>Adrenal Glands</i>
33.2 lbs	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 2.0 cm length x 0.36 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 1.6 cm length x 0.50 cm width at the caudal pole.
<b>INTERPRETED BY</b>	<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. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.
<b>IMAGING PERFORMED BY</b>	<i>Liver / Gallbladder</i>
Shari Reffi, CVT	The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.
<b>HOSPITAL NAME</b>	<i>Gastrointestinal</i>
Budd Lake Animal Hospital	The stomach presented intact wall layering with a normal wall layer ratio. Minor retained nonshadowing ingesta present. No signs of ileus, obstruction or foreign material. The gastric body wall width measured 0.50 cm.
<b>REFERRING VET</b>	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. The jejunum wall width measured 0.40 cm.
Dr. Horn	
<b>INVOICE</b>	Normal visible colon wall layers were present with apparent formed feces in lumen.
49363	
<b>DATE</b>	
1-7-22	



**PATIENT**

***Pancreas***

Elke Carroll

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.

**SPECIES**

Canine

***Free Abdomen***

Omentum exhibited mild uniform increased echogenicity. No evidence of omental masses or lymphadenopathy.

**BREED**

Shepherd Mix

Moderate volume anechoic subjectively acellular peritoneal free fluid was present.

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

- Bilateral nephropathy - glomerular nephritis, infectious/immune mediated glomerulopathy, Lyme nephritis, or other glomerulopathy or nonspecific nephritis possible.

FS

- Moderate volume peritoneal free fluid.

**AGE**

3 Years, 4 Months

- Mild urinary bladder sediment.
- Sonographically unremarkable gastrointestinal tract with minor retained gastric ingesta.
- Sonographically unremarkable liver.

**WEIGHT**

33.2 lbs

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

UPC level on sterile urine sample recommended. Primary concern for potential nephrotic syndrome given the hypoalbuminemia, hypercholesterolemia, azotemia, potentially secondary to Lyme nephritis given the positive Lyme test. No other overt hepatic or gastrointestinal pathology as an additional or alternative cause of hypoalbuminemia. However, further diagnostics including UPC level and correlation with clinical history advised. Aggressive medical therapy for PLN/Lyme nephritis/nephrotic syndrome likely indicated. Guarded prognosis.

**INTERPRETED BY**

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

For an additional charge, internalmedicineconsult can be utilized through SonoPath.com. You can select theinternalmedicinedrop down at <http://spa.sonopath.com/>.

**IMAGING PERFORMED BY**

Shari Reffi, CVT

One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. <https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services>

**HOSPITAL NAME**

Budd Lake Animal  
Hospital

**REFERRING VET**

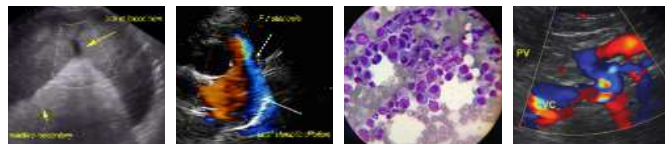
Dr. Horn

**INVOICE**

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**DATE**

1-7-22



**PATIENT**

Elke Carroll

**SPECIES**

Canine

**BREED**

Shepherd Mix

**SEX**

FS

**AGE**

3 Years, 4 Months

**WEIGHT**

33.2 lbs

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

Budd Lake Animal  
Hospital

**REFERRING VET**

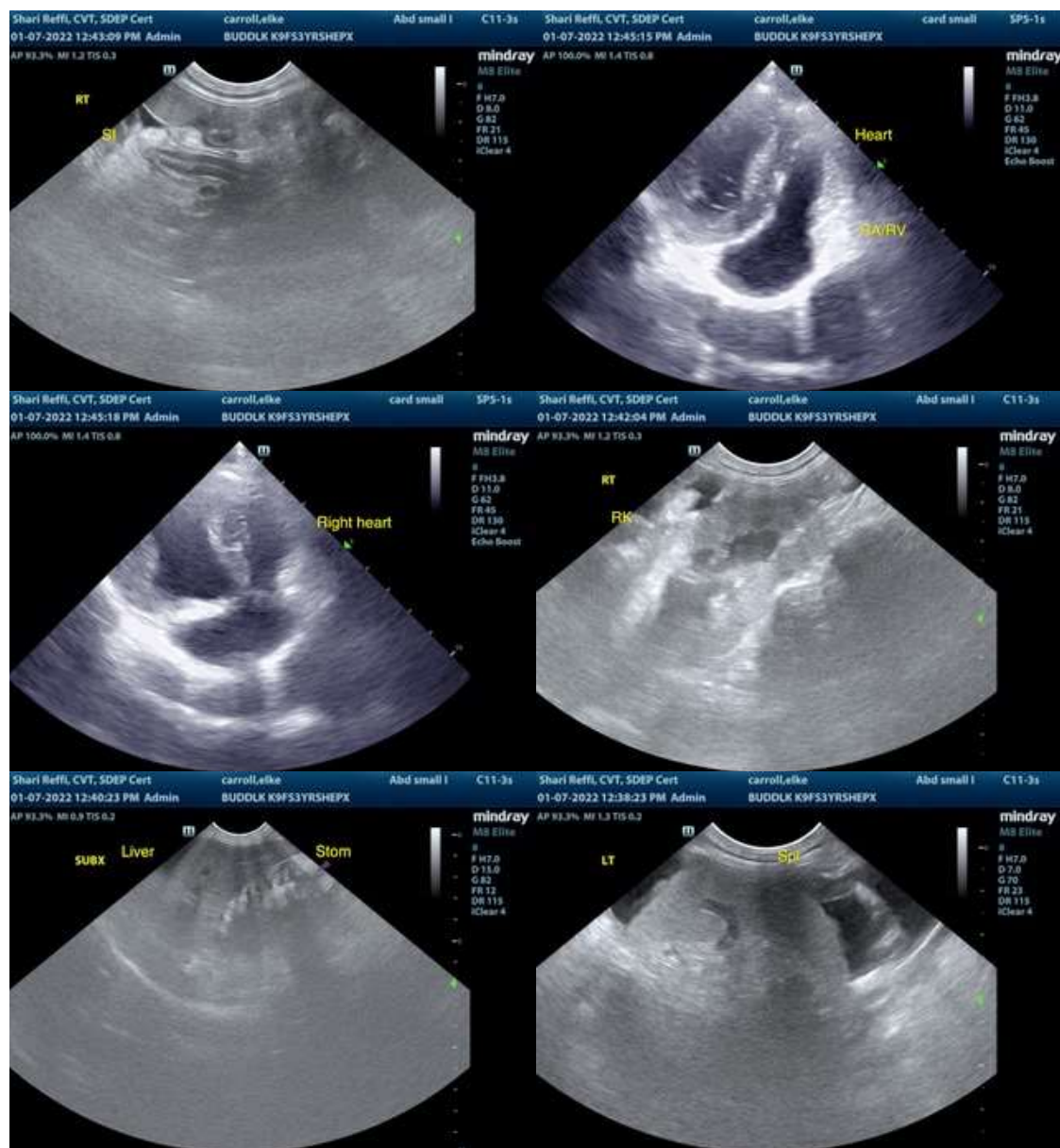
Dr. Horn

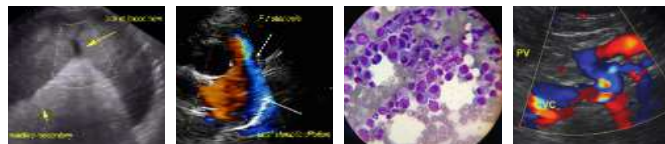
**INVOICE**

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**PATIENT**

Elke Carroll

**SPECIES**

Canine

**BREED**

Shepherd Mix

**SEX**

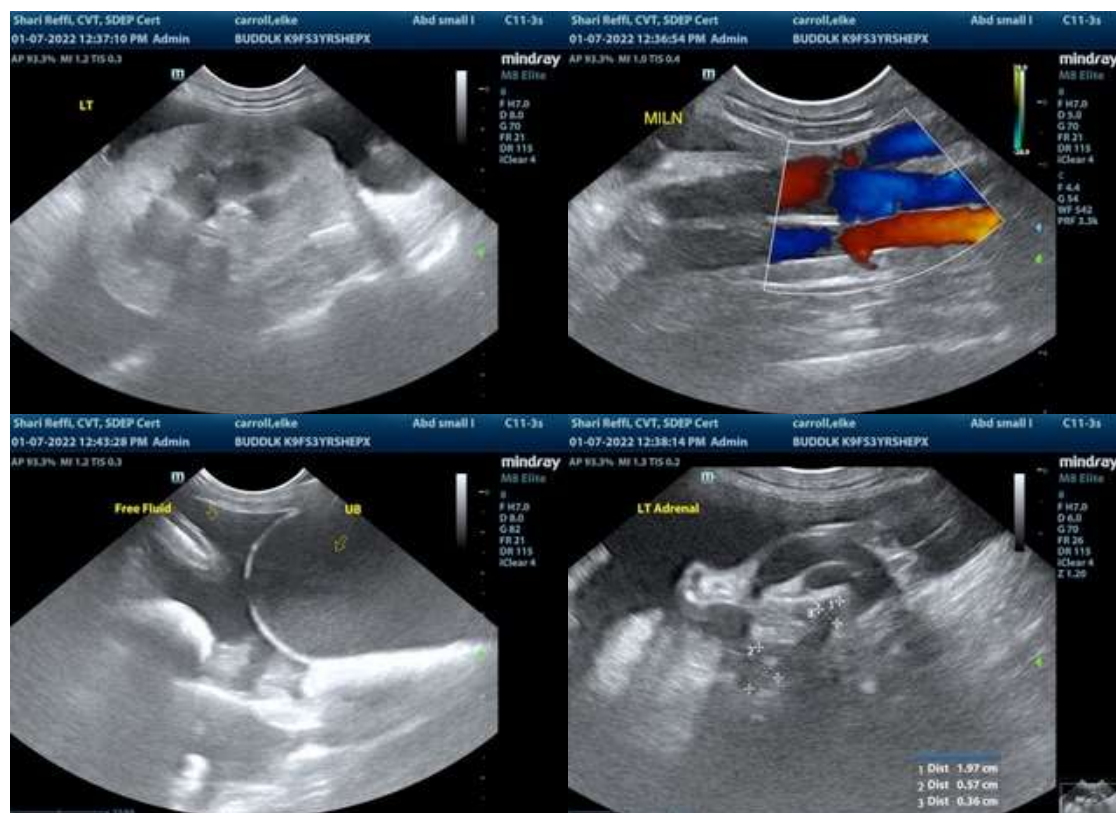
FS

**AGE**

3 Years, 4 Months

**WEIGHT**

33.2 lbs



**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

Budd Lake Animal  
Hospital

**REFERRING VET**

Dr. Horn

**INVOICE**

49363

**DATE**

1-7-22

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