

**PATIENT**

Comet Krieg

**SPECIES**

Canine

**BREED**

Golden Retriever

**SEX**

FS

**AGE**

11yr

**WEIGHT**

68.8lb

**INTERPRETED BY**R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)**IMAGING  
PERFORMED BY**

Kim Liedberg

**HOSPITAL NAME**

SVS Imaging

**REFERRING VET**

Dr. Bloss

**INVOICE**

11513ag

**DATE**

09/02/2022

**PRESENTING CLINICAL SIGNS**

Hx of splenectomy Histo came back as benign. 1month soft cough. mildly lethargic. 50ml's of mildly red pleural effusion was tapped from chest. No cardiomegaly seen on chest radiographs. No heart murmur noted. Looking for reason for pleural effusion. Dog is stable. 1.3 mls of butorphanol given IV for sedation.

Abnormal PE/Chem/CBC/UA Results: CBC/chem profile WNL

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN AND THORAX****Thorax**

Sonographic assessment of the thorax revealed areas of normal appearing aerated lung In both the left and right thorax exhibiting normal curvilinear pleural interface. Confirmed mild volume pleural free fluid was present which appeared to be primarily anechoic with potential for mild cellular component. No overt evidence of thoracic or pulmonary masses/nodules or areas of atypical lung.

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4 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.

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 6.4 cm in length. The right kidney measured 7.0 cm in length.

The area of the aortic trifurcation was free of pathology.

The area of the iliac trifurcation was free of pathology including no evidence of medial, iliac or sublumbar lymphadenopathy.

**Adrenal Glands**

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 0.43 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 0.57 cm width at the caudal pole and 0.56 cm width at the cranial pole.

**Spleen**

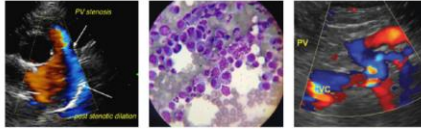
The spleen was not visualized owing to previous splenectomy. No evidence of pathology in the area of the previous spleen.

**Liver**

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. No hepatic masses or nodules noted.

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The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

***Gastrointestinal*****SPECIES**

Canine

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.

**BREED**

Golden Retriever

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.

Normal visible colon wall layers were present with apparent formed feces in lumen.

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FS

***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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11yr

***Free Abdomen***

No omental masses, overt lymphadenopathy or peritoneal free fluid was present.

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**ULTRASONOGRAPHIC FINDINGS**

- Mild hepatic parenchyma remodeling
- Mild age-related renal changes
- Mild volume pleural effusion with areas of normal appearing aerated lung

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Primarily a mild age-related abdomen without evidence of significant primary intra-abdominal visceral pathology as a contributing factor of the pleural effusion. Pending echocardiographic review, an obvious cause of the pleural effusion was not definitive. Pleural effusion analysis cytology +/- C/S if evidence of inflammatory cells. Correlation with echocardiogram is advised. Thoracic CT may be ideal for further assessment of non-visualized intrapulmonary pathology which may be obscured by surrounding aerated lung.

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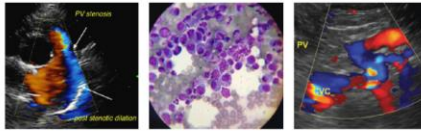
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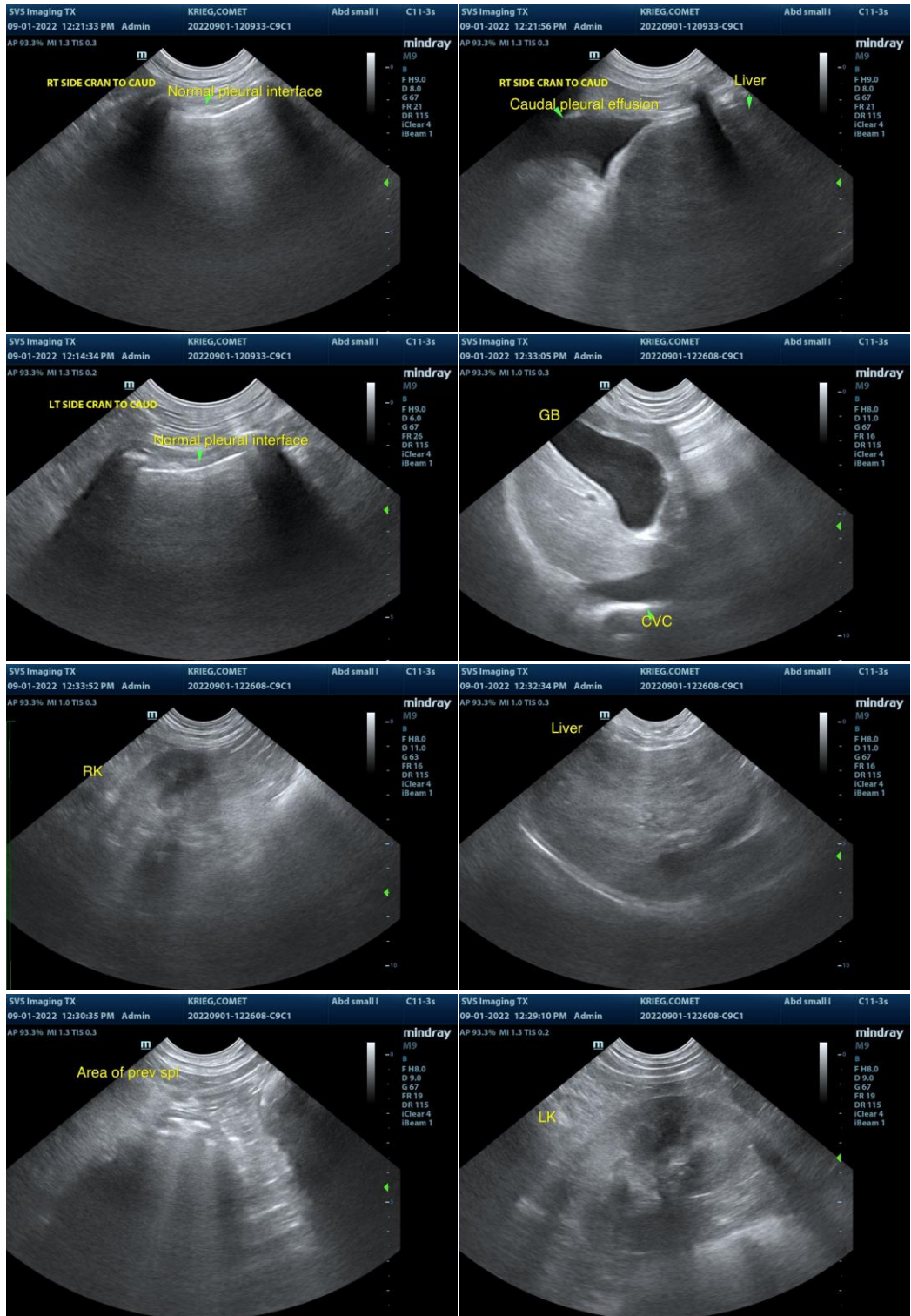
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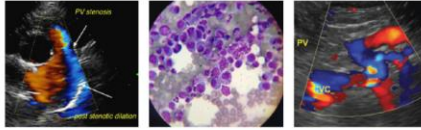
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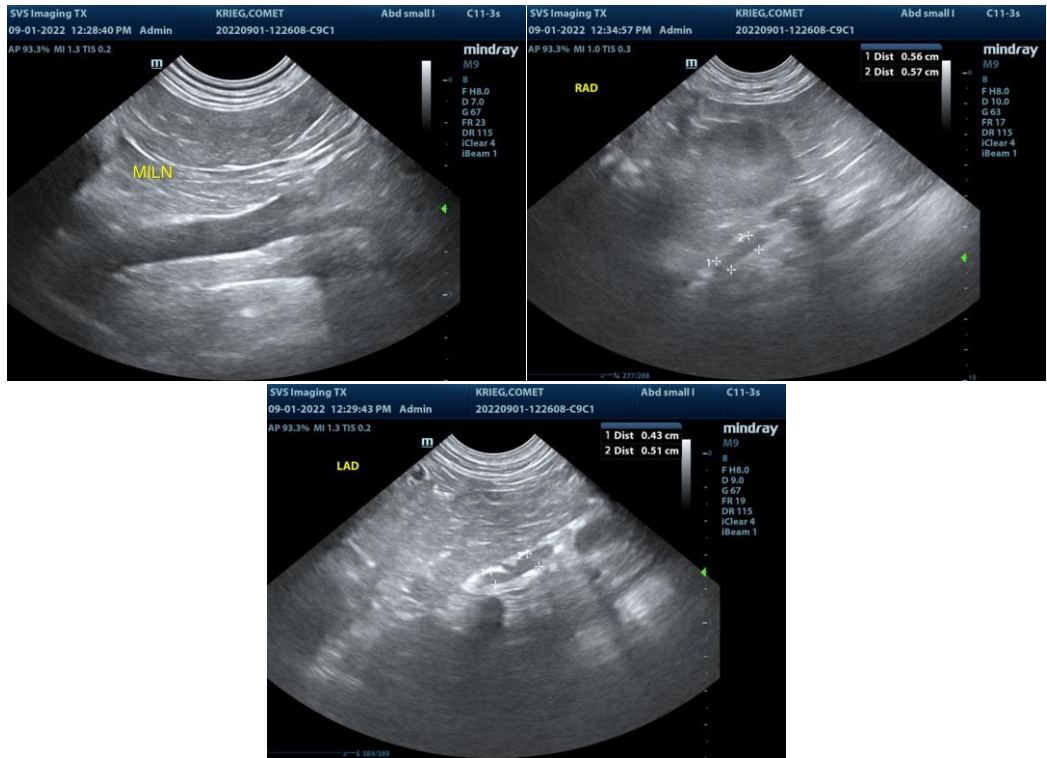
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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