



**PATIENT PRESENTING CLINICAL SIGNS**

Gordon Lerro Mild conjunctivitis. Screening bloodwork done because of pt age.

**SPECIES** Abnormal PE/Chem/CBC/UA Results: Polycythemia: PCV 62.1%, RBC 8.97, Hb 22.2, Retic 135  
Normal hydration, TP 7.0 Current Medications None

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED** *Urinary System*

Chihuahua 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**

MN

**AGE**

11yr

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. No evidence of pelvic dilation was present. Discrete bilateral areas of dystrophic mineral were present. The left kidney measured 3.6 cm in length. The right kidney measured 3.6 cm in length.

**WEIGHT**

9.76lb

The area of the aortic trifurcation was free of pathology.

The area of the residual prostate appeared normal and free of pathology measuring 0.7 cm.

**INTERPRETED BY**

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

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.59 cm width at the caudal pole and 1.5 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.39 cm width at the caudal pole and 1.6 cm length.

**IMAGING PERFORMED BY**

Sara Hansen

**Spleen**

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.

**HOSPITAL NAME**

Cottage Grove  
Veterinary Hospital

**Liver/Gallbladder**

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 moderate non-dependent echogenic debris occupying the majority of the gallbladder lumen. The cystic and common bile ducts were normal.

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**Gastrointestinal**



**PATIENT**

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.

Gordon Lerro

**SPECIES**

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.

Canine

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

**BREED**

***Pancreas***

Chihuahua Mix

The parenchyma of the pancreas base and right pancreatic limb was hyperechoic to adjacent omental fat with diffuse parenchyma remodeling. The capsule of the pancreas was mildly asymmetrical in contour without evidence of peripancreatic inflammation. These changes may suggest chronic inflammation, fibrosis, or saponification if there is a previous history of pancreatitis. No overt signs of pancreatic neoplasia.

**SEX**

MN

***Free Abdomen***

**AGE**

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

11yr

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

9.76lb

- Mild benign hepatomegaly
- Gallbladder debris (non-mucocele)
- Hyperechoic right pancreas-pancreatic fibrosis, potential for chronic pancreatitis
- Mild chronic renal changes exhibiting discrete medullary mineralization

**INTERPRETED BY**

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DVM, DABVP  
(Canine and Feline)

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Overall, a largely geriatric abdomen without evidence of significant visceral pathology. Chronic pancreatitis may be considered if there is evidence of cranial abdominal or subxiphoid discomfort on palpation. Correlation with a spec cPL or a GI panel to include PLI/TLI/Cobalamin/Folate is recommended if clinically indicated.

**IMAGING PERFORMED BY**

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The mild hepatomegaly and gallbladder debris are incidental at this stage given lack of reported hepatic enzyme elevation /cholestasis. Hepatosupportive medications such as Denamarin and Ursodiol may be considered if cholestasis is noted.

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No evidence of intra-abdominal neoplastic criteria.

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**BREED**

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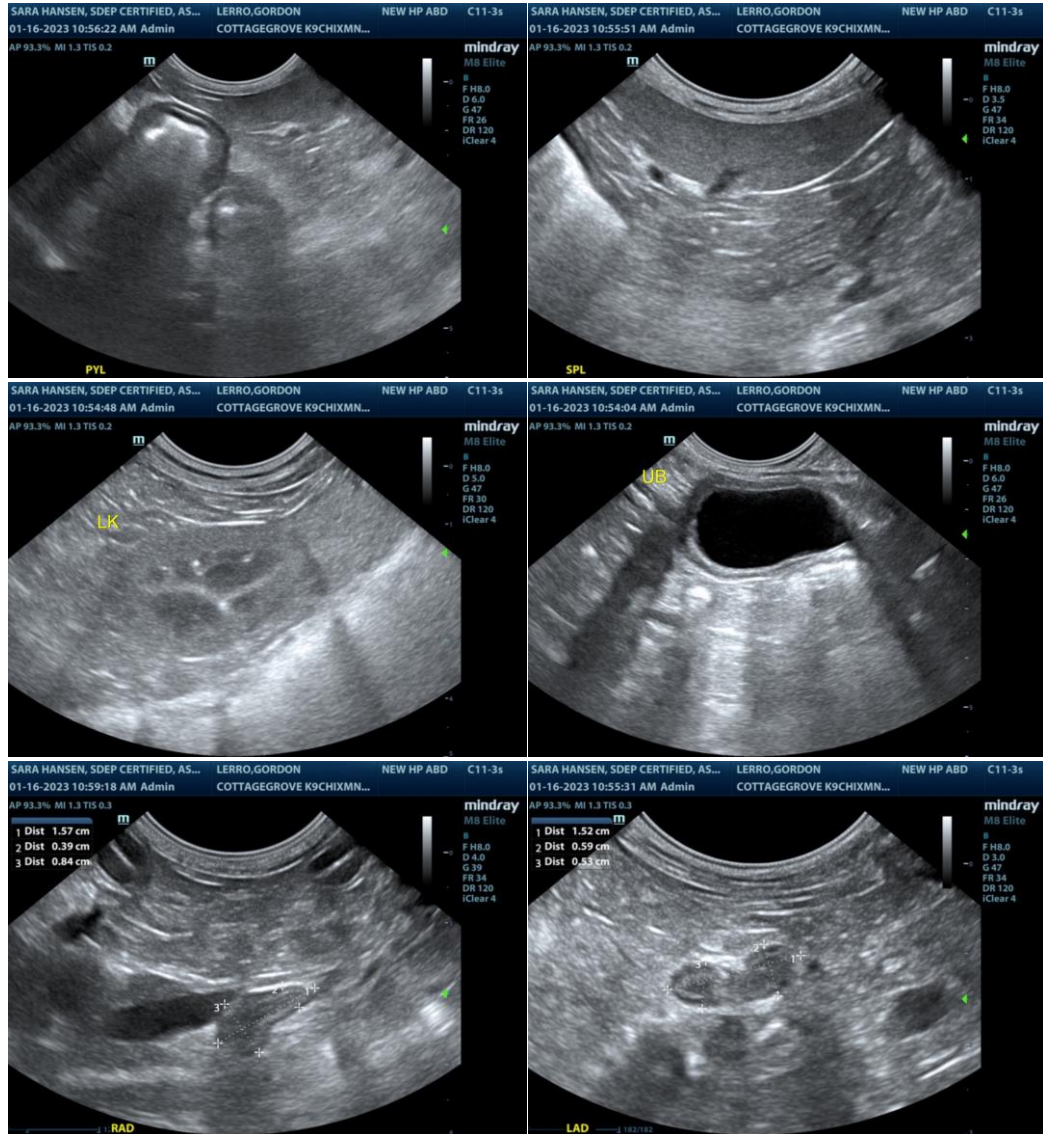
Dr. Damewood

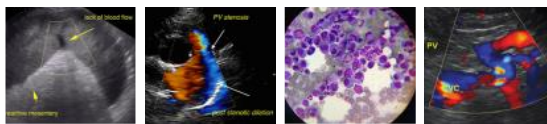
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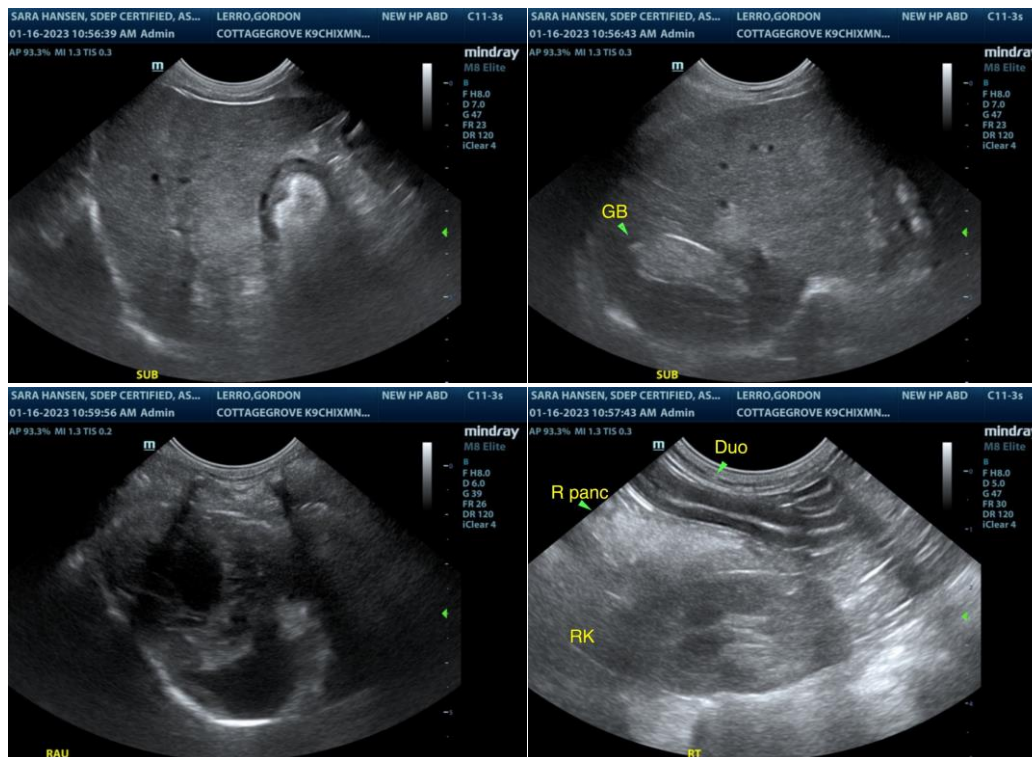
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

info@SonoPath.com