



**PATIENT**

Moose Pederson

**SPECIES**

Canine

**BREED**

Pitbull X

**SEX**

Neutered Male

**AGE**

7

**WEIGHT**

31 kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Dr. Belan

**HOSPITAL NAME**

Calgary Family Vet

**REFERRING VET**

Dr. Lopez

**INVOICE**

20933

**DATE**

2/2/23

**PRESENTING CLINICAL SIGNS**

History: Presented for shaking and anxious behavior. Splenic nodule seen on POCUS  
Abnormal PE/Chem/CBC/UA Results: None done at time of scan

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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.

The area of the residual prostate appeared normal and free of pathology. The residual prostate measured 0.91 cm in diameter.

The area of the aortic trifurcation was free of pathology.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 5.8 cm in length. The right kidney measured 6.1 cm in length.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.35 cm width at the caudal pole and 0.40 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 0.50 cm width at the caudal pole and 0.36 cm width at the cranial pole.

**Spleen**

A mildly expansive nonhomogenous, hypoechoic splenic macronodule to small mass was noted, measuring approximately 3.0 cm in diameter in the subjective cranial spleen. The mass mildly distorted the splenic capsule without evidence of capsular escape. Subtle evidence of associated regional perisplenic hyperechoic omentum was noted. No evidence of splenic mass rupture or secondary peritoneal effusion/hemoabdomen.

**Liver**

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 content with mild nondependent mildly congealed echogenic debris. No evidence of gallbladder or peripheral gallbladder inflammation. The cystic and common bile ducts were normal.

**Gastrointestinal**

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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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.

**SPECIES**

Canine

***Pancreas***

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia. Discrete isoechoic left pancreatic limb nodules noted, suggestive of focal nodular hyperplasia, not consistent with overt neoplastic criteria. Potential for overlaying benign peripancreatic mesenteric lymph node is possible.

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***Free Abdomen***

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Intermittent minor isoechoic benign/reactive mesenteric lymph nodes were present. No evidence of omental masses, significant lymphadenopathy or omental neoplastic criteria

***Other***

**AGE**

7

Rapid view of the heart revealed no evidence of pericardial masses or effusion in the visible window. Overtly normal cardiac structure and function was noted, in light of sedation.

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

31 kg

- Expansive nonhomogenous hypoechoic splenic macronodule/small mass
- Mild heterogenous pancreas with suspect benign left pancreatic nodule
- Mild gallbladder debris (non-mucocele)

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The splenic macronodule to small mass is nonspecific with considerations including hyperplasia, hematopoiesis, granuloma, splenitis, or neoplasia (sarcoma, round cell neoplasia, other). Potential neoplastic criteria is considered a higher potential yet not definitive. No overt evidence of intraabdominal cardiac metastasis. Correlation with full CBC/chemistry panel is recommended. Urinalysis is recommended. If no evidence of pathology on three view chest radiographs, and pending lab work, laparotomy with splenectomy and gross inspection of the perisplenic omentum and liver may be considered.

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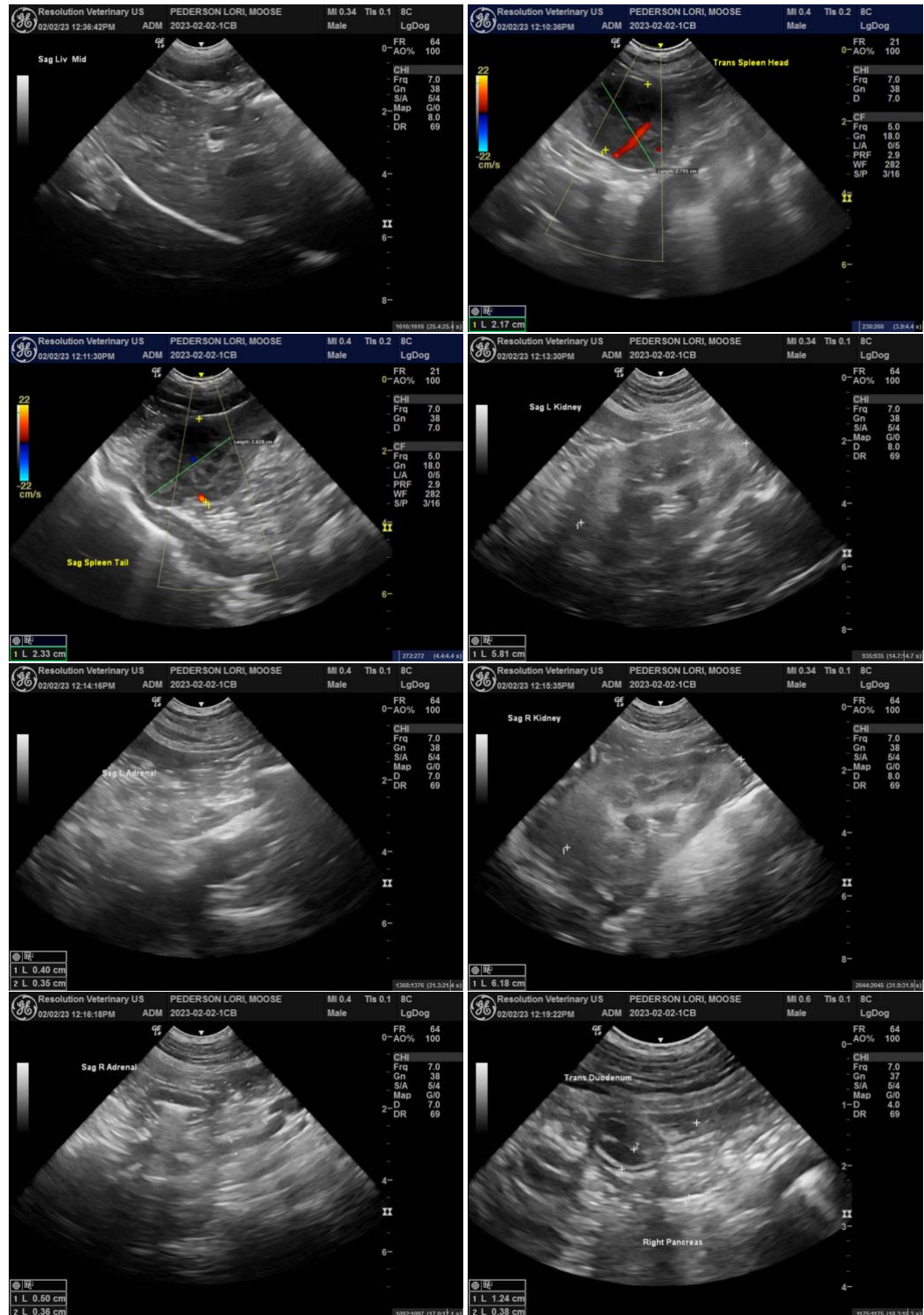
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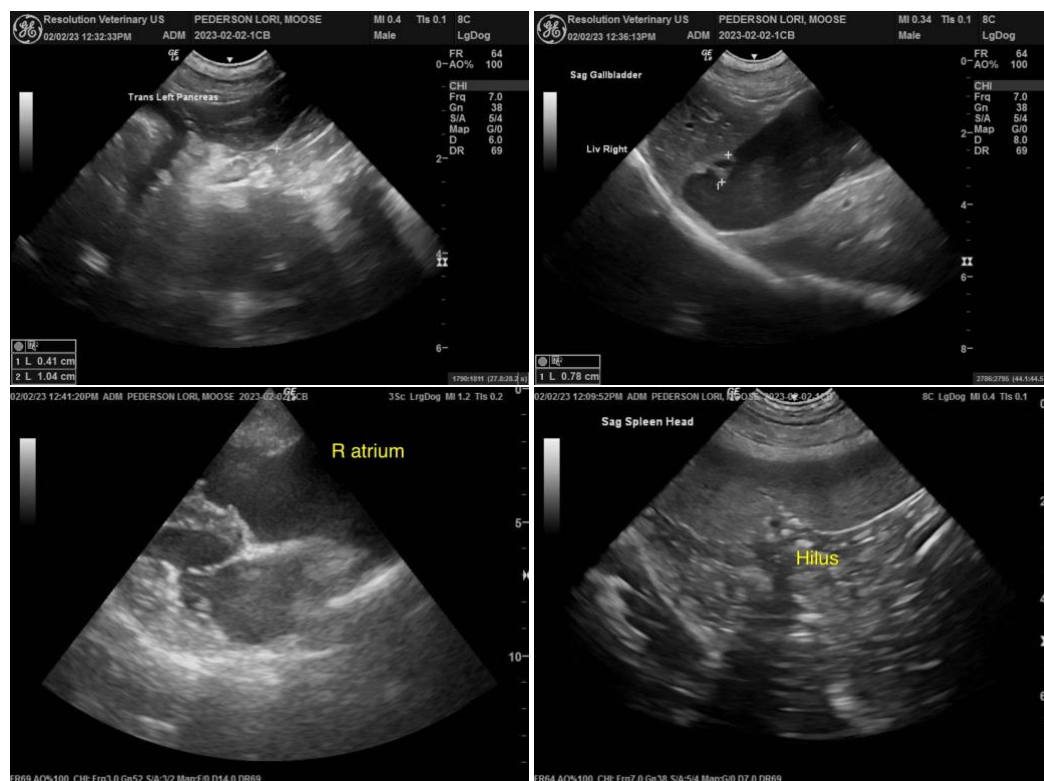
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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