

**PATIENT**

Bodi Poci

**SPECIES**

Canine

**BREED**

Border Collie

**SEX**

NM

**AGE**

9 months

**WEIGHT**

46 lbs.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Sarah Pender, CVT

**HOSPITAL NAME**

SVS Imaging QC

**REFERRING VET**

Dr. Haenni

**INVOICE**

13272

**DATE**

2/8/22

**PRESENTING CLINICAL SIGNS**

Reoccurring bladder infection. 4+ Struvite crystals. Tired. Has history of GI upset and was on EN for awhile. When urinary issues started switched to feeding UR.

Abnormal PE/Chem/CBC/UA Results: 4+ struvites in urine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN****Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 5.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths, sediment, or calculi. The ureteral papillae were sonographically unremarkable. The ureters were not visible which is normal. No evidence of inflammatory mural changes, as well as no overt evidence of congenital abnormalities such as urachal remnant or ectopic ureter, were noted. No neoplastic changes were noted.

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 0.67 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. No evidence of pyelectasia was noted in either kidney. The left kidney measured 7.0 cm in length. The right kidney measured 7.0 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 2.7 cm length x 0.42 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 2.7 cm length x 0.43 cm width at the caudal pole.

**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.

**Liver/ Gallbladder**

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.

**PATIENT*****Gastrointestinal***

Bodi Poci

The stomach exhibited intact yet mild prominent wall layering. Minor retained anechoic fluid was present in the stomach lumen. The gastric body wall width measured 0.49 cm.

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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. The duodenum wall width measured 0.42 cm. The jejunum wall width measured 0.33 cm.

**BREED**

Border Collie

***Pancreas*****SEX**

NM

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 were evident.

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***Free Abdomen***

Intermittent mesenteric lymph nodes were present. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). An example of a mesenteric lymph node measured 2.0 cm x 0.83 cm.

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**ULTRASONOGRAPHIC FINDINGS*****Primary Findings***

- Sonographically unremarkable urinary bladder, residual prostate, and visible proximal urethra
- Sonographically unremarkable bilateral kidneys - no evidence of pyelonephritis
- Possible mild gastritis, sonographically unremarkable small bowel / colon
- Intermittent subjectively benign mesenteric lymphadenopathy - lymphoid hyperplasia, mild reactive lymphadenitis, or immunologic immaturity likely

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Given the lack of overt upper or lower urinary tract pathology as a possible cause of recurring infection, recheck urine culture and sensitivity on a sterile urine sample may be considered. No evidence of significant urinary bladder sediment was noted that would correlate with the reported 4+ crystal urea.

Dietary intolerance / food hypersensitivity with potential for structurally insignificant inflammatory gastroenteropathy are possible. If not current evidence of underlying urinary tract infection or if persistent to recurrent gastrointestinal signs, a limited antigen or hydrolyzed diet or If available, hydrolyzed urinary diet would be ideal.

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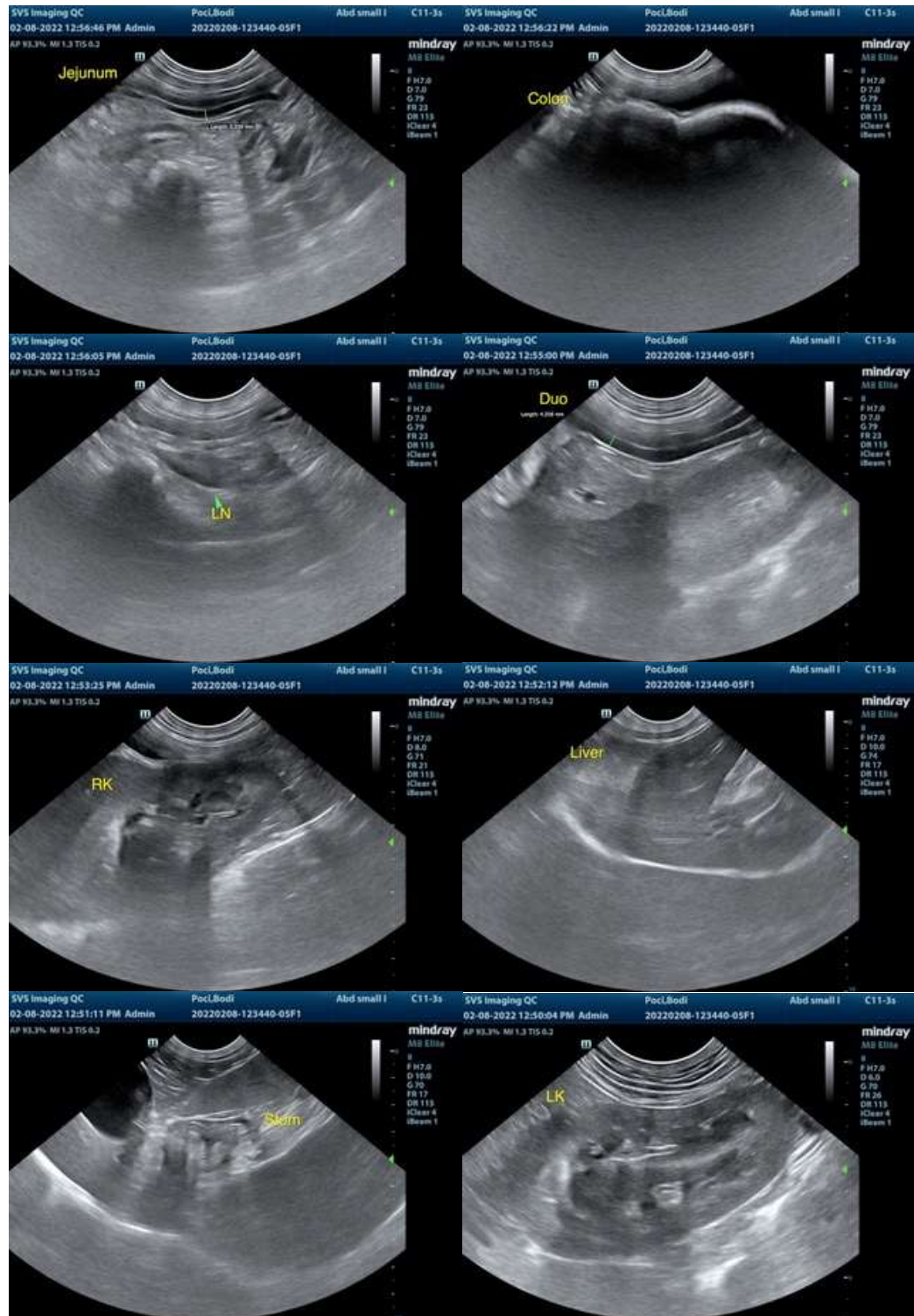
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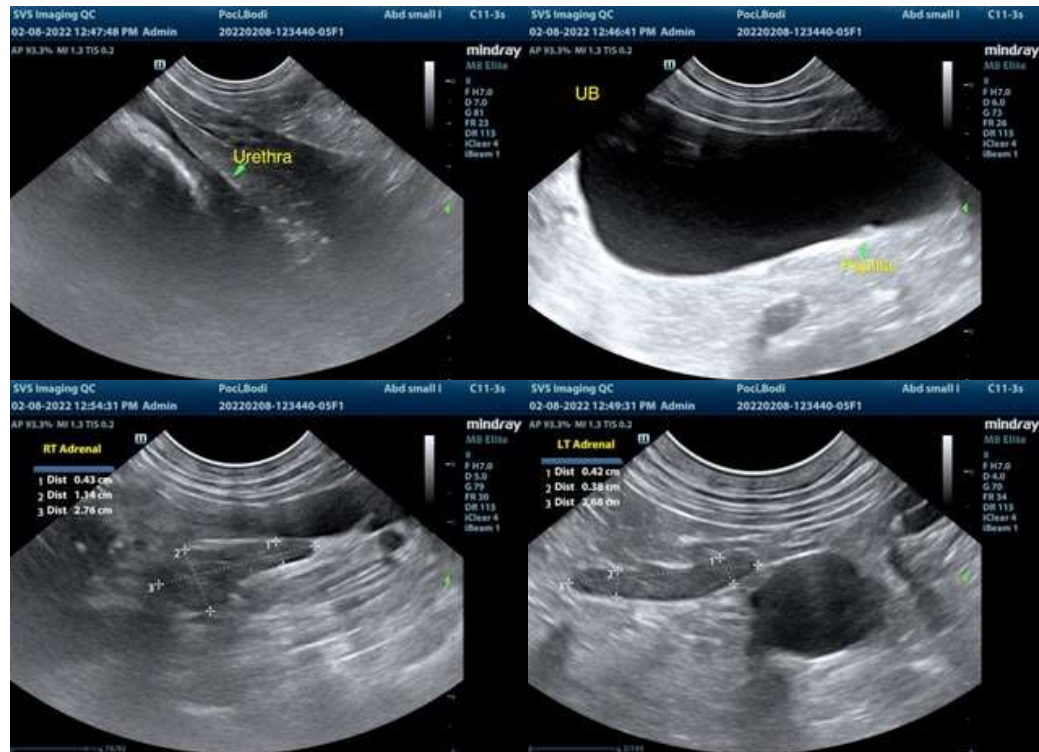
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)**  
info@SonoPath.com