


**PATIENT PRESENTING CLINICAL SIGNS**

Kona Soucier Increased frequency of urination and urinating small amounts everywhere with no evident UTI on UA. Has been on Cartrophen.

**SPECIES** Abnormal PE/Chem/CBC/UA Results: N/A

Canine **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

Belgian Malinois Mix

**SEX**

FS

**AGE**

2yr

**WEIGHT**

26.8kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Snelgrove VS

**REFERRING VET**

McQueen

**INVOICE**

14468ag

**DATE**

07/31/2023

**Urinary System**

The urinary bladder was normal in size and tone with no evidence of overdistention. Normal generalized bladder wall was noted. The trigone, cystourethral junction, and visible pelvic urethra to a depth of 3-4 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths, calculi 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 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 5.2 cm in length. The right kidney measured 5.7 cm in length.

The area of the aortic trifurcation was free of pathology.

The area of the uterine remnant appeared normal and free of pathology.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.43 cm width at the caudal pole and 0.53 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 0.7 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.

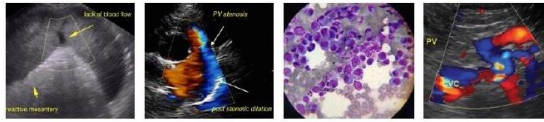
**Liver/Gallbladder**

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.

**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.

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.



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

Kona Soucier **Pancreas**

**SPECIES** 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.

Canine

**Free Abdomen**

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

Belgian Malinois Mix

**SEX**

- Normal non-distended urinary bladder and visible proximal urethra.
- Overtly normal area of uterine remnant.
- Normal bilateral kidneys.

FS

**AGE**

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

2yr

No evidence of upper/lower urinary tract structural pathology was present i.e., ectopic ureter, inflammatory bladder criteria, tumors, calculi, nephritis etc. Screening urine C/S on a sterile urine sample is suggested even without overt evidence of UTI criteria on UA.

**WEIGHT**

26.8kg

Contrast urography or cystoscopy may be considered if persistent/progressive urinary signs.

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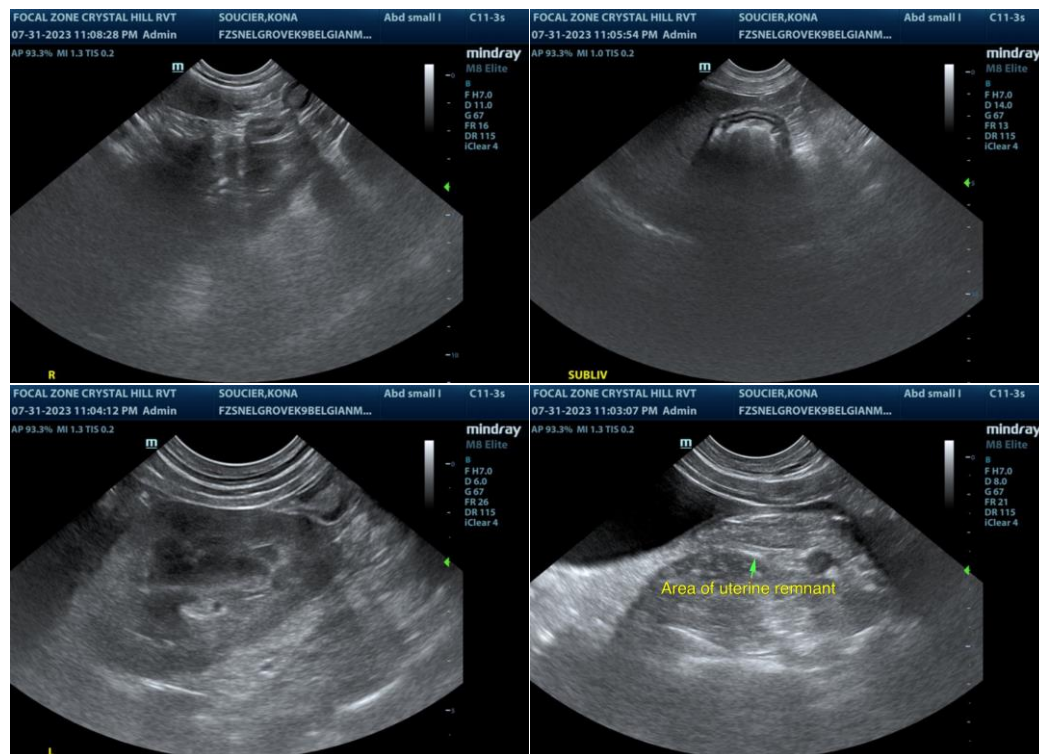
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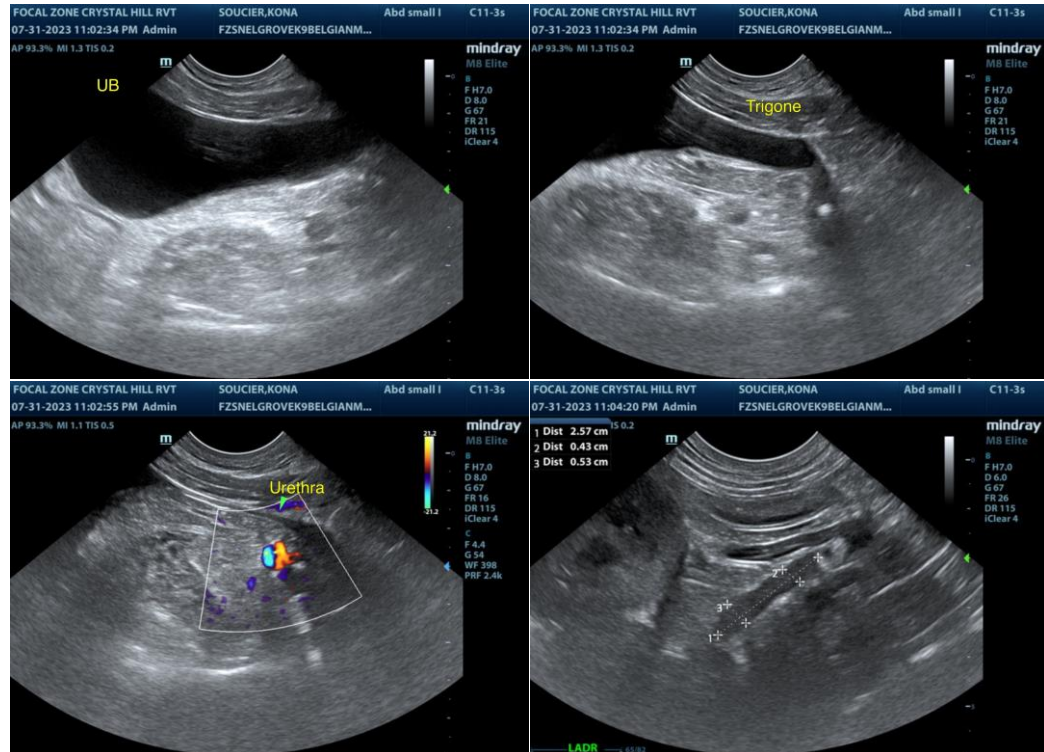
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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