



**PATIENT PRESENTING CLINICAL SIGNS**

Summer Ferguson

12 week old puppy, other vet diagnosed with UTI and dispensed clavaseptin. P stopped urinating as frequently but still always wet on the hind end. THIS has been an issue since P was 3 weeks old.. We dispensed another 8 days of Clavaseptin and O said it slowed down but P is still leaking urine. meds: Clavaseptin finished Sept 22

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Puppy anemia., otherwise BW WNL Urinalysis: STraw and clear, S.G 1.043, PRO 1+, BLD 3+, cysto

**BREED**

Wheaton Terrier

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**SEX**

FS

The urinary bladder was subnormal in size owing to lack of urine distension. The visible proximal urethra exhibited potential for mild decreased tone to minor dilation or urine retention to a depth of 3-4 cm. 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 ventroapical bladder wall measured 0.32 cm in width.

**AGE**

3mo

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 5.4 cm in length. The right kidney measured 5.8 cm in length. No evidence of pyelonephritis or congenital renal dysplasia.

**WEIGHT**

6.2kg

The area of the aortic trifurcation was 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 0.32 cm width at the caudal pole and 1.6 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.40 cm width at the caudal pole and 1.6 cm length.

**INTERPRETED BY**

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

**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.

**IMAGING PERFORMED BY**

Kelly Reschny

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**

Beattie Pet Hospital  
Stoney Creek

**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 luminal content. The cystic and common bile ducts were normal.

**REFERRING VET**

Dr. Mellish

**INVOICE**

11745ag

**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.

**DATE**

09/28/2022



**PATIENT**

Summer Ferguson

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 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.

**BREED**

Wheaton Terrier

***Free Abdomen***

No overt lymphadenopathy or peritoneal effusion was present.

**SEX**

FS

**ULTRASONOGRAPHIC FINDINGS**

- Subnormal urinary bladder size owing to lack of urine distention, possible cystitis
- Sonographically unremarkable bilateral kidneys-no evidence of congenital disease

**AGE**

3mo

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

A urine C/S is recommended ideally on sterile urine 7 days post completion of most recent antibiotic protocol. A definitive congenital abnormality was not obviously evident yet cannot be definitively excluded given the subnormal urinary bladder size. Likewise, a small ectopic ureter may at times be difficult to visualize sonographically especially in a smaller patient. Given the consistent incontinence in this patient further assessment may include advanced contrast imaging such as gold standard CT with contrast and/or cystoscopy if possible, for definitive diagnosis.

**WEIGHT**

6.2kg

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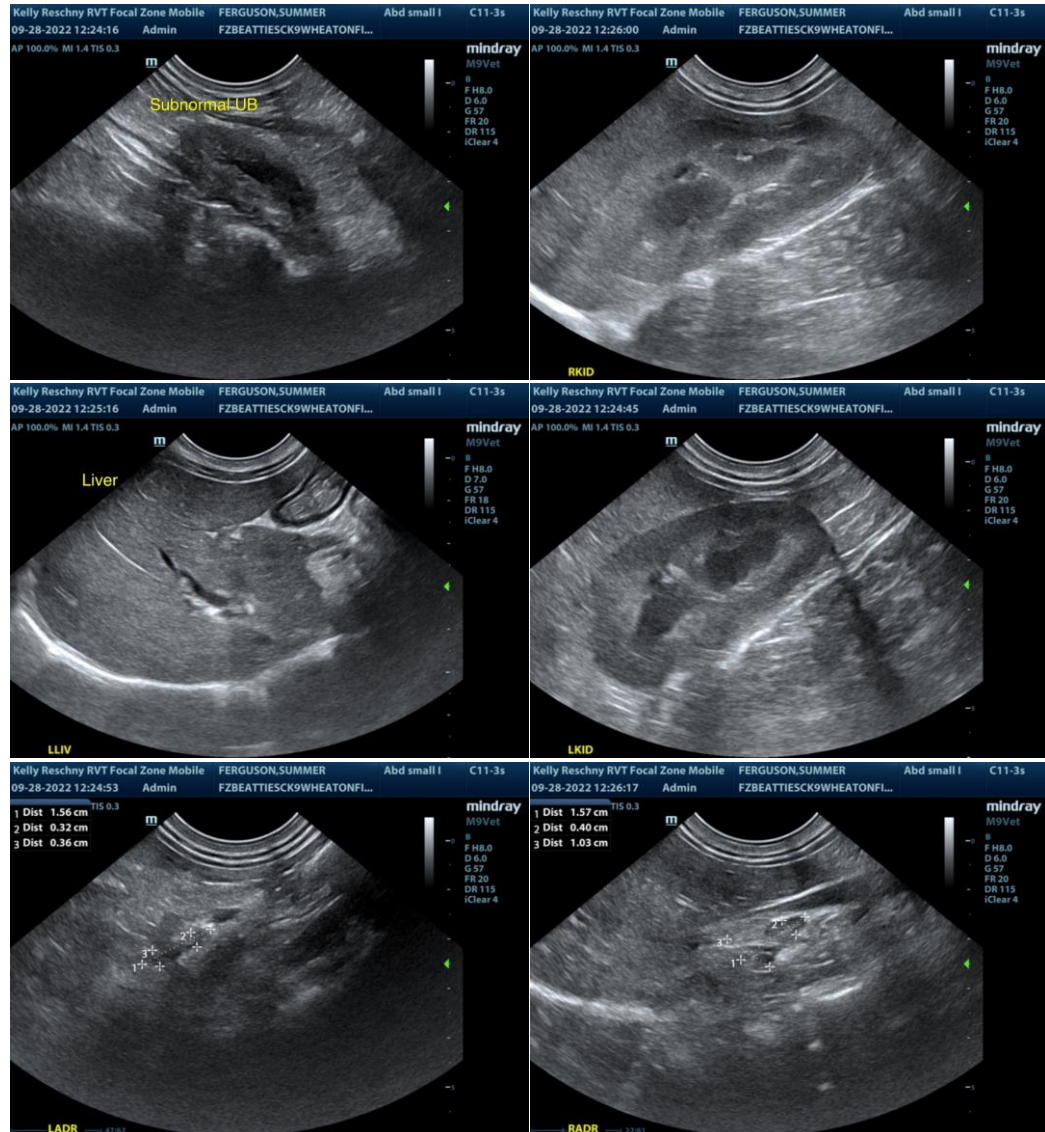
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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