



**PATIENT PRESENTING CLINICAL SIGNS**

Winnie Tweney recurrent hematuria and suspect UTI, treated for UTI in July, clinical and lab resolution on US Aug 12, recurrent symptoms

**SPECIES** Abnormal PE/Chem/CBC/UA Results: BW-WNL UA- some bacteria, high pH and protein

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

**Urinary System**

Bernese Mountain Dog

The urinary bladder was normal in size and tone with generalized thickened bladder walls and asymmetrical luminal surface contour. The dorsal bladder wall measured up to 0.75 cm in width. The trigone, cystourethral junction, and visible pelvic urethra to a depth of 1 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with moderate dependent hyperechoic sand and particulate sediment-suspect focal areas of adhered luminal surface mineral. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence neoplastic changes were noted.

**SEX**

FI

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 5.5 cm in length. The right kidney measured 5.4 cm in length.

**AGE**

15mo

**WEIGHT**

31.5kg

The area of the aortic trifurcation was free of pathology.

The uterus was sonographically unremarkable. No overt pathology in the area of the bilateral ovaries.

**Adrenal Glands**

**INTERPRETED BY**

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

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.44 cm width at the caudal pole and 2.1 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.51 cm width at the caudal pole and 2.3 cm length.

**IMAGING PERFORMED BY**

Kelly Reschny

**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**

Sixteen Mile VC

**Liver**

**REFERRING VET**

Dr. Bile

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.

**INVOICE**

11417ag

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**Gastrointestinal**

**DATE**

08/19/2022

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.



**PATIENT**

Winnie Tweney

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**

Bernese Mountain Dog

**Free Abdomen**

No overt lymphadenopathy or peritoneal effusion was present.

**SEX**

FI

**ULTRASONOGRAPHIC FINDINGS**

- Generalized possibly chronic cystitis pattern with moderate dependent to adhered luminal mineral and particulate sediment
- Normal bilateral kidneys

**AGE**

15mo

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

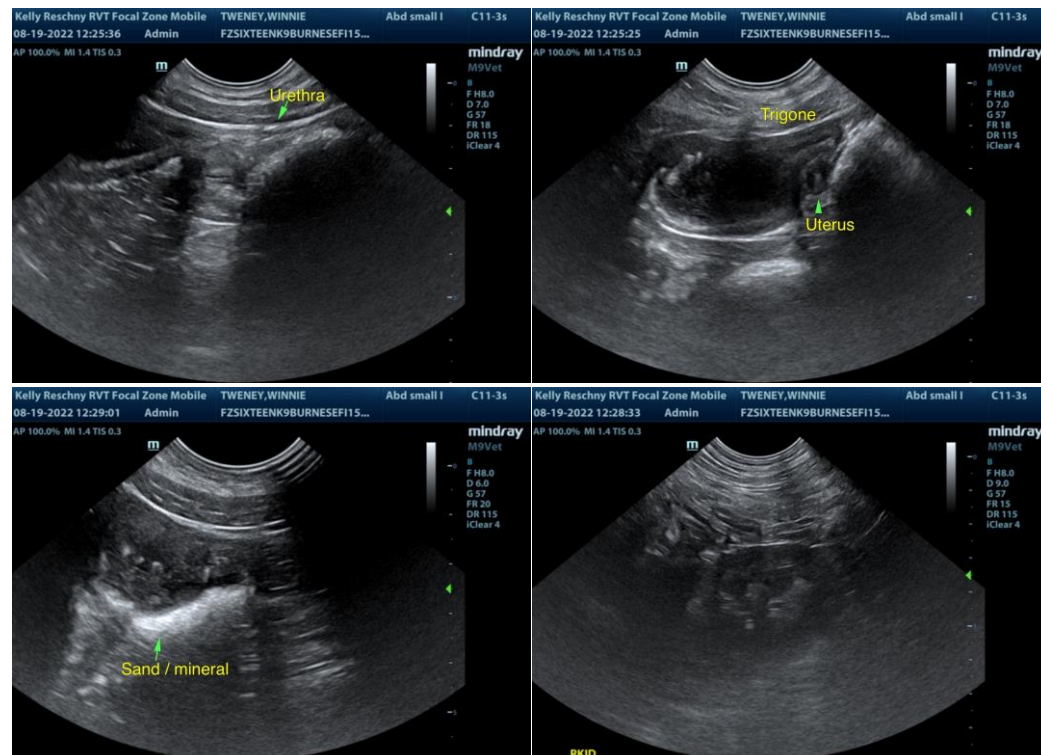
A recheck urine C/S on a sterile urine sample is recommended. Assessment of the vulva and vaginal vault for evidence of abnormalities that may predispose to ascending infection is recommended. No overt evidence of congenital abnormalities. Cystoscopy could be considered for further assessment. Potential for chronic sterile vs bacterial cystitis is possible. A urinary diet may prove beneficial.

**WEIGHT**

31.5kg

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DVM, DABVP  
(Canine and Feline)



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Kelly Reschny

**HOSPITAL NAME**

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**REFERRING VET**

Dr. Bile

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**PATIENT**

Winnie Tweney

**SPECIES**

Canine

**BREED**

Bernese Mountain Dog

**SEX**

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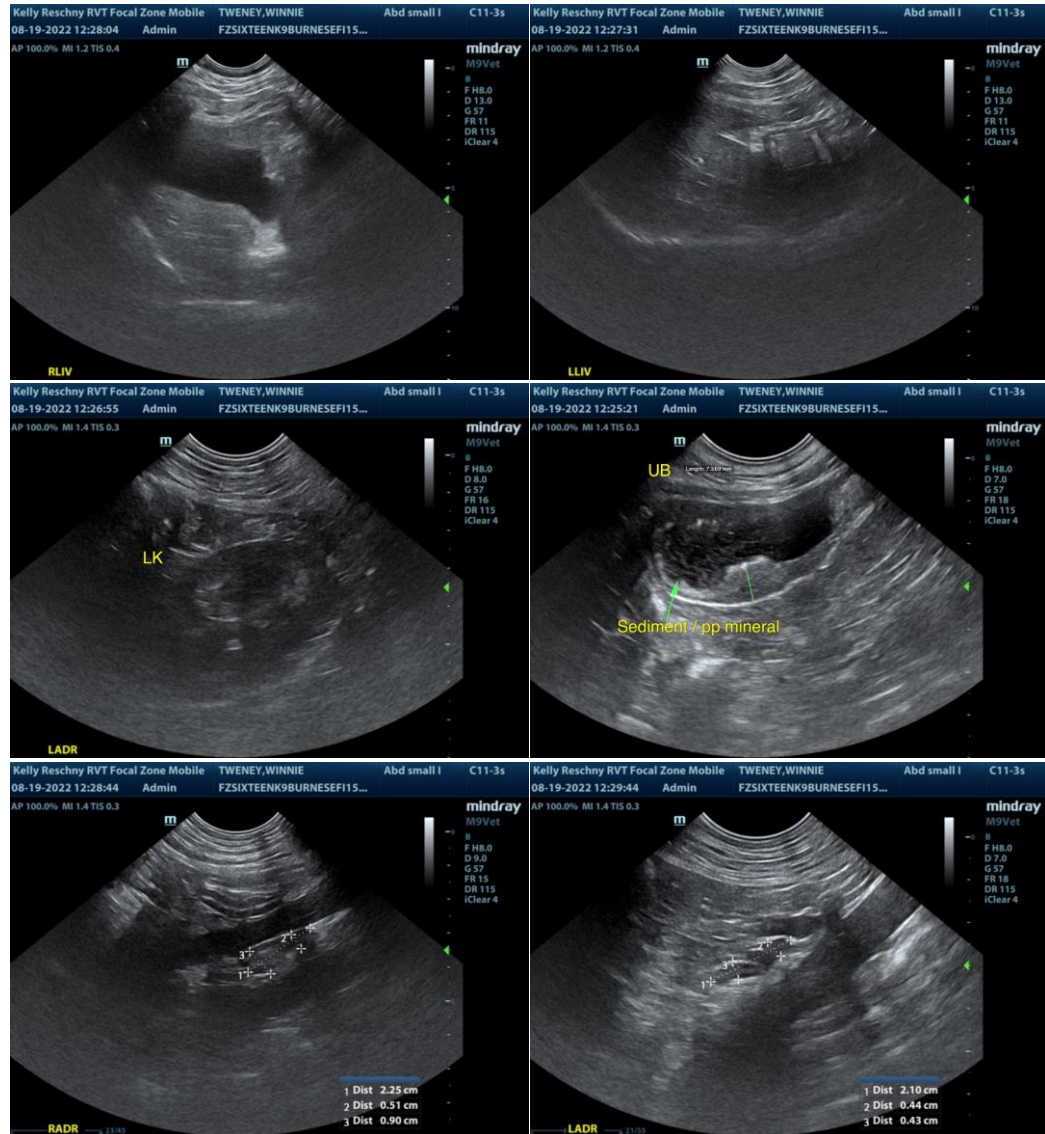
Dr. Bile

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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