



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Winnie Cleary  
**SPECIES** Canine  
**BREED** Bernese Mountain Dog  
**SEX** FI  
**AGE** 6mo  
**WEIGHT** 47lb

Urinary system only. 6 month old Bernese Mountain dog puppy with intermittent lower urinary signs at home over last 2 months. Presenting complaint - urine leaking episodes at home. 6/15/22 F/UO (T=103.4) UA (cysto)-S.G. 1.012, inactive sediment. Creat 1.6. 7/24/22- 0 reports polakiuria at home UA (free-catch) -S.G. 1.044, 2+ blood, 3+ struvite crystals, no bacteria seen. Prescribed Clavamox for 10 days, with plan to recheck UA~1 week after course. Signs return after treatment stopped. R/O puppy vaginitis vs renal dysplasia vs ectopic ureter vs other.

**ULTRASONOGRAPHIC LIMITED EXAMINATION OF THE URINARY TRACT**

**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 visualized ureter at the level of the urinary bladder and ureteral papilla appeared to possibly bypass the level of the ureteral papilla although definitive termination of the visualized ureter was inconclusive. Sonographic assessment in the area of the ureteral papilla confirmed the presence of at least one ureteral jet of urine into the bladder lumen.

Normal size and margination was 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. Bilateral scant pyelectasia was present. The left kidney measured 6.6 cm in length. The right kidney measured 7.1 cm in length.

**ULTRASONOGRAPHIC FINDINGS**

- Sonographically normal bilateral kidneys exhibiting scant pyelectasia-no evidence of congenital renal dysplasia or other renal pathology
- Possible unilateral ectopic ureter

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The visualized ureter with potential bypass of the ureteral papilla with inconclusive termination may potentially indicate unilateral ectopic ureter in conjunction with recurring UTIs and intermittent incontinence. Cystoscopy for additional assessment of the vaginal vault for evidence of structural abnormalities which may predispose an ascending infection and/or gold standard CT with contrast recommended for further assessment.

Correlation with response to antibiotic protocol and recheck urine C/S 7 days post completion of antibiotic is warranted.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Pamela Harrigan, RDCS

**HOSPITAL NAME**

Norfolk County Veterinary Service

**REFERRING VET**

Dr. Ragon

**INVOICE**

11405ag

**DATE**

08/18/2022



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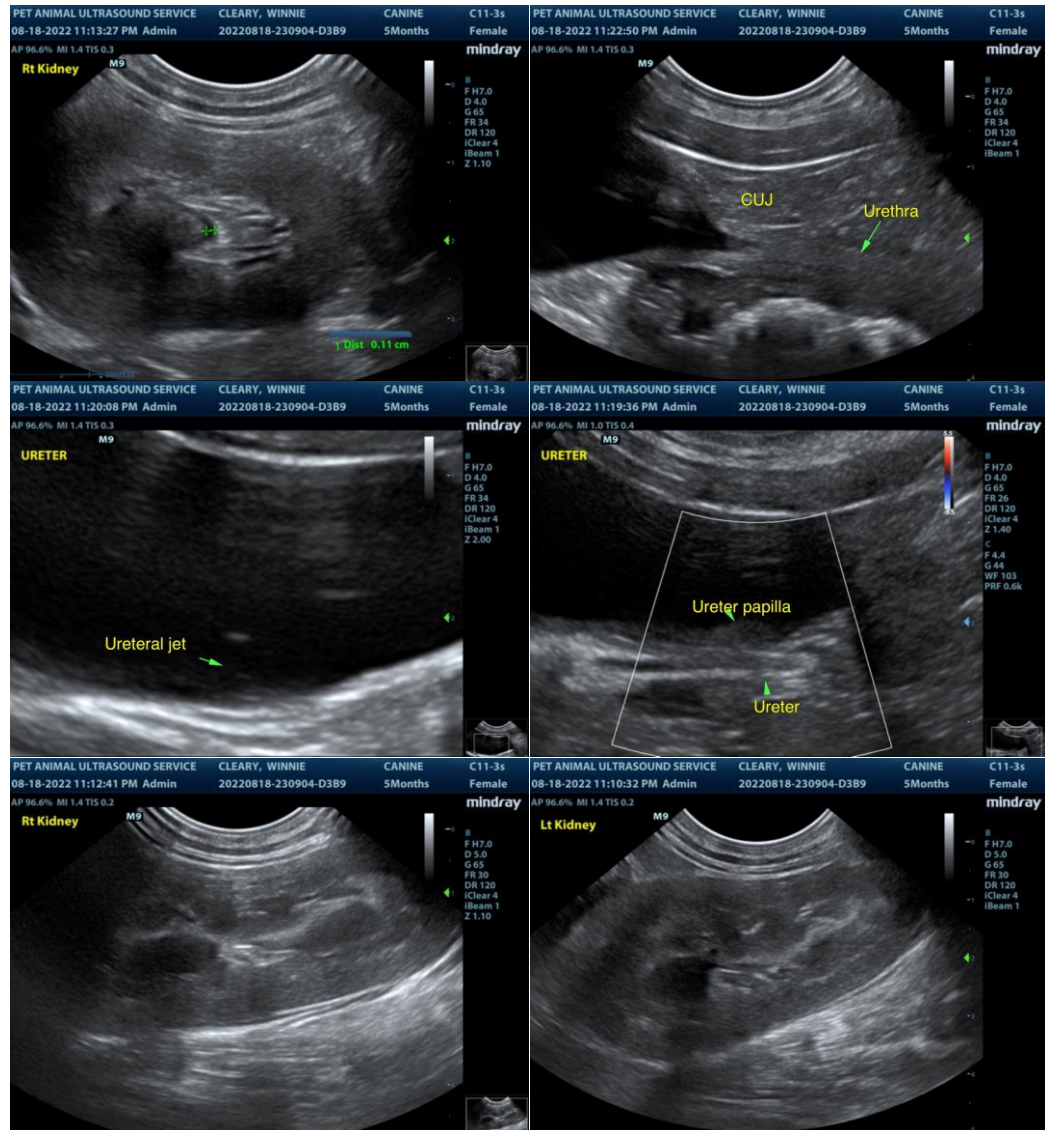
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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