

**PATIENT PRESENTING CLINICAL SIGNS**

Charlie Wilson History: Crystals in urine after treatment for UTI

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**SPECIES**

**Canine Urinary System**

Urinary bladder is only mildly distended and very pelvically located, making further visualization of the urethra/prostate difficult. Visible contents are anechoic. The urinary bladder wall is unable to be fully assessed for pathology without further distention. Having said that, it's generally normal in appearance with no visible masses or cystoliths observed. The trigone is normal in thickness with a smooth mucosal surface.

**BREED**

Beagle

The prostate is unable to be well visualized in this patient.

**SEX**

Neutered Male

Left kidney is normal in size (4.67 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed. hyperechoic band parallel to the corticomedullary border is present.

**AGE**

2 Years

Right kidney is normal in size (4.87 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed. hyperechoic band parallel to the corticomedullary border is present.

**WEIGHT**

22.9 Pounds

**Adrenal Glands**

Left adrenal gland is normal in size (0.33 cm at cranial pole and 0.45 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

**INTERPRETED BY**

Beth Johnson, DVM  
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Right adrenal gland is normal in size (0.27 cm at cranial pole and 0.35 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

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**Spleen**

Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.

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Dr. Cox

**Liver**

Liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

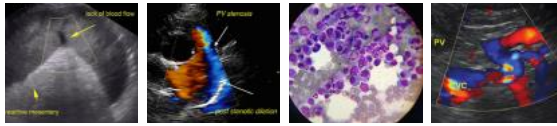
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Gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

**DATE**

7/7/23



**PATIENT** **Gastrointestinal**

Charlie Wilson The visible stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

**SPECIES**

Canine The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

**BREED**

Beagle The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

**SEX**

Neutered Male Pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

**AGE**

2 Years There is no evidence of peritoneal effusion. There is no apparent lymphadenopathy.

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

22.9 Pounds

- Subtle/mild bilateral medullary rim sign. This finding is of unknown clinical significance and can be a normal variant, often idiopathic. Medullary rim sign can be present with renal disease including FIP, lymphoma, hypercalcemic nephropathy, Leptospirosis, tubular disease, other and should be interpreted in combination with other more specific indications of kidney disease such as isosthenuria, proteinuria, azotemia, etc. This is a common incidental finding in patients with diabetes mellitus.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Further recommendations for this patient depend largely on clinical signs, as well as what type of crystals were in the urine and whether it was a stored vs fresh urine sample, etc. If this patient is clinically well, additional follow up may not be required, as some crystals can be related to sample handling, urine sitting, etc. Having said that, even if this patient is well, if not recently evaluated, full kidney evaluation is recommended in the form of CBC chemistry panel and electrolytes.

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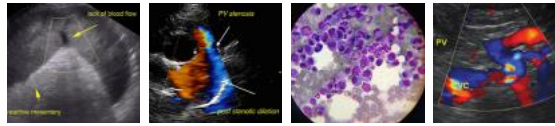
If patient is still having lower urinary tract signs, recheck urinalysis and, if indicated based on urinalysis results, urine culture is recommended. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ration is recommended.

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**PATIENT**  
Charlie Wilson

**SPECIES**  
Canine

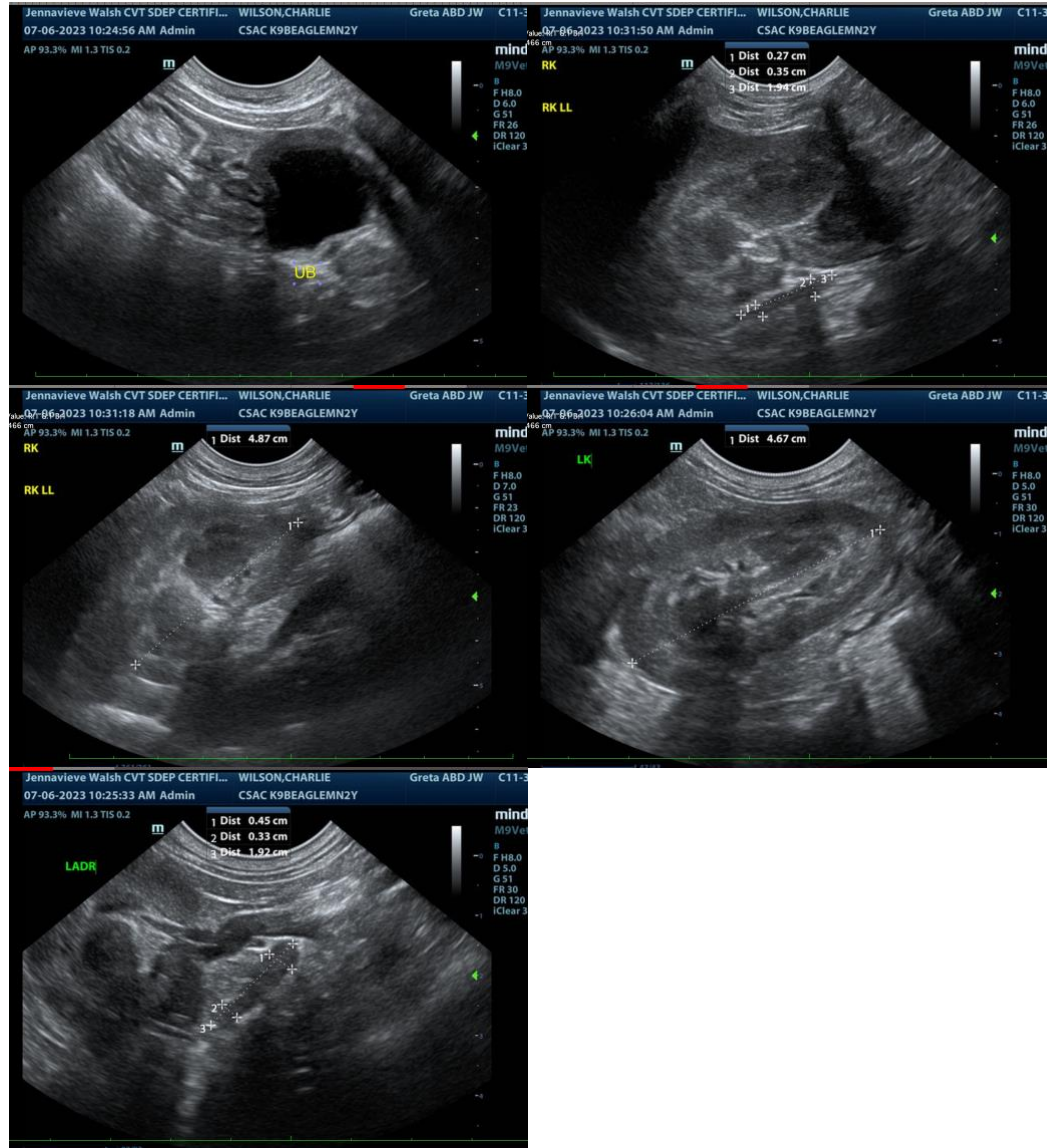
**BREED**  
Beagle

**SEX**  
Neutered Male

**AGE**  
2 Years

**WEIGHT**  
22.9 Pounds

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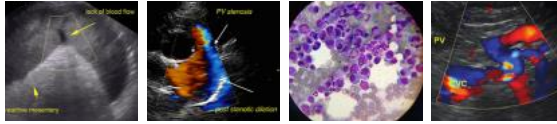
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

**Beth Johnson, DVM DACVIM**  
info@sonopath.com



**PATIENT**

Charlie Wilson

**SPECIES**

Canine

**BREED**

Beagle

**SEX**

Neutered Male

**AGE**

2 Years

**WEIGHT**

22.9 Pounds

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