



**PATIENT PRESENTING CLINICAL SIGNS**

Roulie Weatherhill

History: Stated that AUS would be beneficial at the moment to evaluate the kidneys considering that pyelonephritis is one the most likely DDX at the moment. and AUS. Started Cerenia, IVF, Pantoprazole, Methadone.

**SPECIES**

Feline

Abnormal PE/Chem/CBC/UA Results: CREA > 1202 71 - 212 µmol/L HIGH

**BREED**

DSH

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Primarily anechoic urine was present in the lumen. Minor nondependent particulate sediment was present without evidence of calculus formation. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.

**SEX**

Spayed Female

Normal size and margination was present in the kidneys. Both kidneys exhibited mild primarily uniform cortical hypertrophy with increased cortex echogenicity. Mild to moderate loss of corticomedullary border demarcation was noted. Subtle reduced medullary volume was present. Pinpoint areas of medullary fibrosis versus emerging mineralization noted around the pelvis and in the lateral diverticuli in both kidneys. No evidence of pyelectasia or retroperitoneal inflammation noted. The left kidney measured 4.0 cm. The right kidney measured 4.1 cm.

**AGE**

9 Years

**WEIGHT**

3.6 kg

**Adrenal Glands**

The left adrenal gland was indistinctly visualized yet without overt pathology, measuring 0.28 cm.

**INTERPRETED BY**

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

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.37 cm.

**Spleen**

The spleen exhibited borderline subnormal size (potentially owing to volume contraction) with 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. The spleen measured 0.66 cm.

**IMAGING PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Hamilton Regional EC

**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. Alami

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**Gastrointestinal**

The stomach presented intact and sonographically normal wall layering. Mild nonshadowing ingesta/chyme was present, along with luminal gas.

**DATE**

6/3/22

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.

Roulie Weatherhill

**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.

Feline

**Free Abdomen**

**BREED**

No overt lymphadenopathy or peritoneal effusion was present.

DSH

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

- Bilateral interstitial nephrosis renal pattern
- Mild retained gastric ingesta/chyme, possible mild metabolic gastric hypomotility
- Minor particulate urinary bladder sediment- minor cellular debris/protein, crystalline debris or mucus.

Spayed Female

**AGE**

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

9 Years

The sonographic appearance of the bilateral kidneys was nonspecific yet most suggestive of chronic nephropathy, although the possibility of acute on chronic renal insult cannot be excluded. Chronic renal disease, nonspecific nephritis, such as interstitial nephritis or pyelonephritis (less likely) possible without evidence of renal neoplastic criteria. Subjectively, the bilateral kidneys did not appear to be end-stage.

**WEIGHT**

3.6 kg

**INTERPRETED BY**

Urine culture and sensitivity +/- baseline UPC level suggested, if no evidence of inflammatory cells, ideally, on sterile urine sample. Screening blood pressure recommended. Prognosis is likely dependent upon renal response to IV fluids and further renal staging. Continued as needed gastrointestinal support recommended.

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DABVP (Canine and  
Feline)

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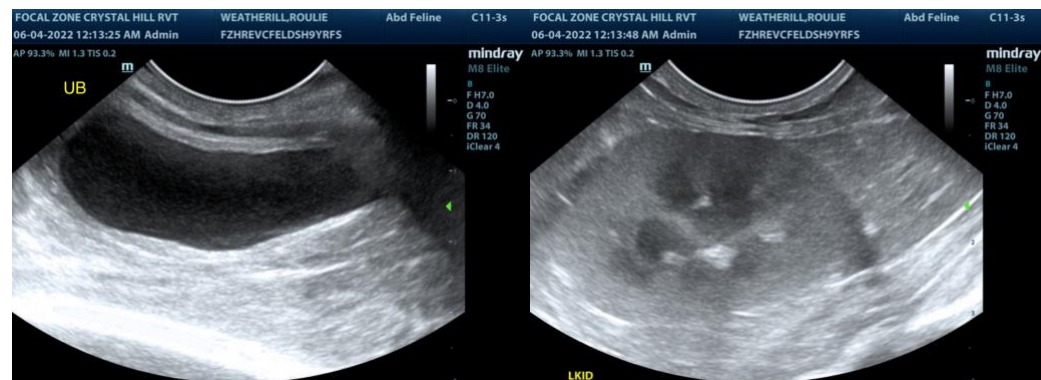
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**PATIENT**

Roulie Weatherhill

**SPECIES**

Feline

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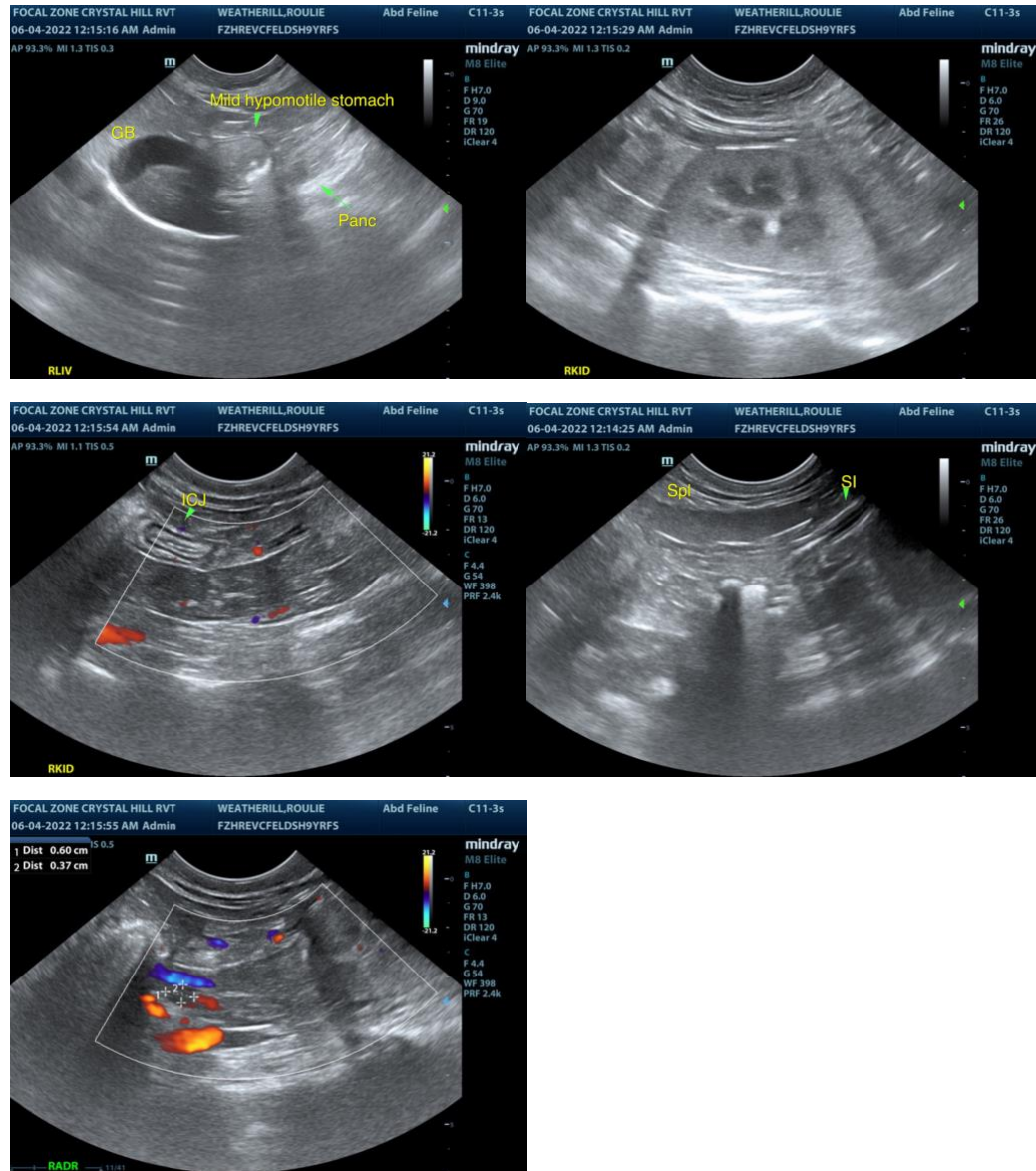
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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