



**PATIENT**

Zeus Martin

**PRESENTING CLINICAL SIGNS**

History: weight loss and unkempt hair/coat.

**SPECIES**

Feline

Abnormal lab-work values: Bloodwork shows azotemia. Creatine 3.5. BUN 56. USG 1.020, no proteinuria, inactive sediment.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

Maine Coon

**Urinary System**

The urinary bladder wall is normal in thickness and the mucosal surface is smooth. The bladder is moderately distended. Luminal contents are anechoic. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 2 cm, are normal.

**SEX**

Neutered Male

The left kidney is enlarged (5.91 cm in length) with a slightly irregular shape. Numerous, varying-sized cortical cysts are observed throughout the organ, causing a distortion of the normal renal architecture. Moderate pyelectasia is present (0.44 cm in the longitudinal plane). There is no evidence of nephroliths, or hydronephrosis. Renal vasculature is normal.

**AGE**

5 years, 9 mos

The right kidney is normal in size (6.28 cm in length) with a slightly irregular shape. Numerous, varying-sized cortical cysts are observed throughout the organ, causing a distortion of the normal renal architecture. Trace pyelectasia is present (0.019 cm in the longitudinal plane). There is no evidence of nephroliths, or hydronephrosis. Renal vasculature is normal.

**WEIGHT**

10.7 lbs

**Adrenal Glands**

The left adrenal gland is normal size (0.39 cm width). Normal shape and glandular echogenicity. The phrenicoabdominal vein and surrounding vasculature are normal.

**INTERPRETED BY**

Andrea Nicastro,  
DVM, Diplomate  
ACVIM (Small Animal  
Internal Medicine)

The right adrenal gland is normal size (0.41 cm width). Normal shape and glandular echogenicity. The phrenicoabdominal vein and surrounding vasculature are normal.

**Spleen**

The spleen is normal in size (0.73 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

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**Liver**

The liver is subjectively normal in size with normal contours and structure. There is appropriate echogenicity and echotexture. No overt structural evidence of inflammatory, infiltrative, or regenerative pathology is evident. Vascular and biliary tracts are of normal volume with no evidence of congestion. No pathological hepatic lymphadenopathy observed. The portal vein to caudal vena cava ratio is approximately 1: 1.

**HOSPITAL NAME**

Flowertown AH

The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal/not seen.

**REFERRING VET**

Kristin Pignatello

**Gastrointestinal**

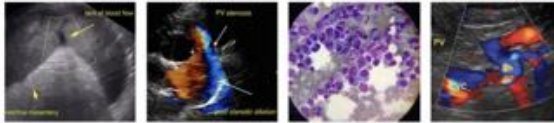
The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal. There is disruption in the normal 1:3 muscularis: mucosal ratio in most segments. Discreet masses are not identified. The ileocecal colic junction and colonic wall are normal. No obstructive disease is noted.

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**DATE**

6/14/23



## PATIENT

**Zeus Martin**  
**Pancreas**  
The pancreas is normal in size with normal peripheral contours. The pancreatic duct is normal. The base and limbs of the pancreas are isoechoic to surrounding omental fat. No focal lesions are observed. There is no evidence of peripancreatic inflammation or effusion.

## SPECIES

**Feline**  
**Free Abdomen**  
There is no evidence of free fluid. A few prominent mesenteric lymph nodes are visualized (the largest measuring 2.17 cm in length). The nodes are normal in shape and echogenicity.

## BREED

**Maine Coon**  
**Other**  
A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass.

## ULTRASONOGRAPHIC FINDINGS

### SEX

Neutered Male

### Primary Findings

- The bilateral renal changes are consistent with polycystic kidney disease. The bilateral pyelectasia could be consistent with parenchymal remodeling, pyelonephritis, PU/PD (if applicable) or some combination thereof.

### AGE

5 years, 9 mos

### Secondary Findings

- Bowel pattern consistent with inflammatory bowel disease with some potential for emerging lymphoma.
- The prominent abdominal lymph nodes are most consistent with reactive lymphadenitis or lymphoid hyperplasia. Neoplastic infiltration is considered less likely.

### WEIGHT

10.7 lbs

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## REFERRING VET

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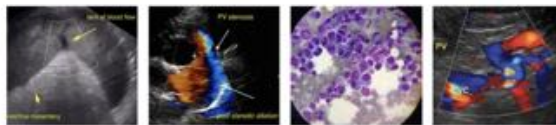
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## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- Regarding the azotemia and sonographic renal changes, consider the following:
  - Urine culture and sensitivity to assess for occult infection
  - Baseline blood pressure measurement
  - Transition to a prescription renal diet (if the patient will tolerate it)
  - Serial monitoring of the patient's renal values to assess for progressive disease.
- Regarding the bowel changes, consider a Texas GI panel including serum cobalamin and folate, TLI and PLI.



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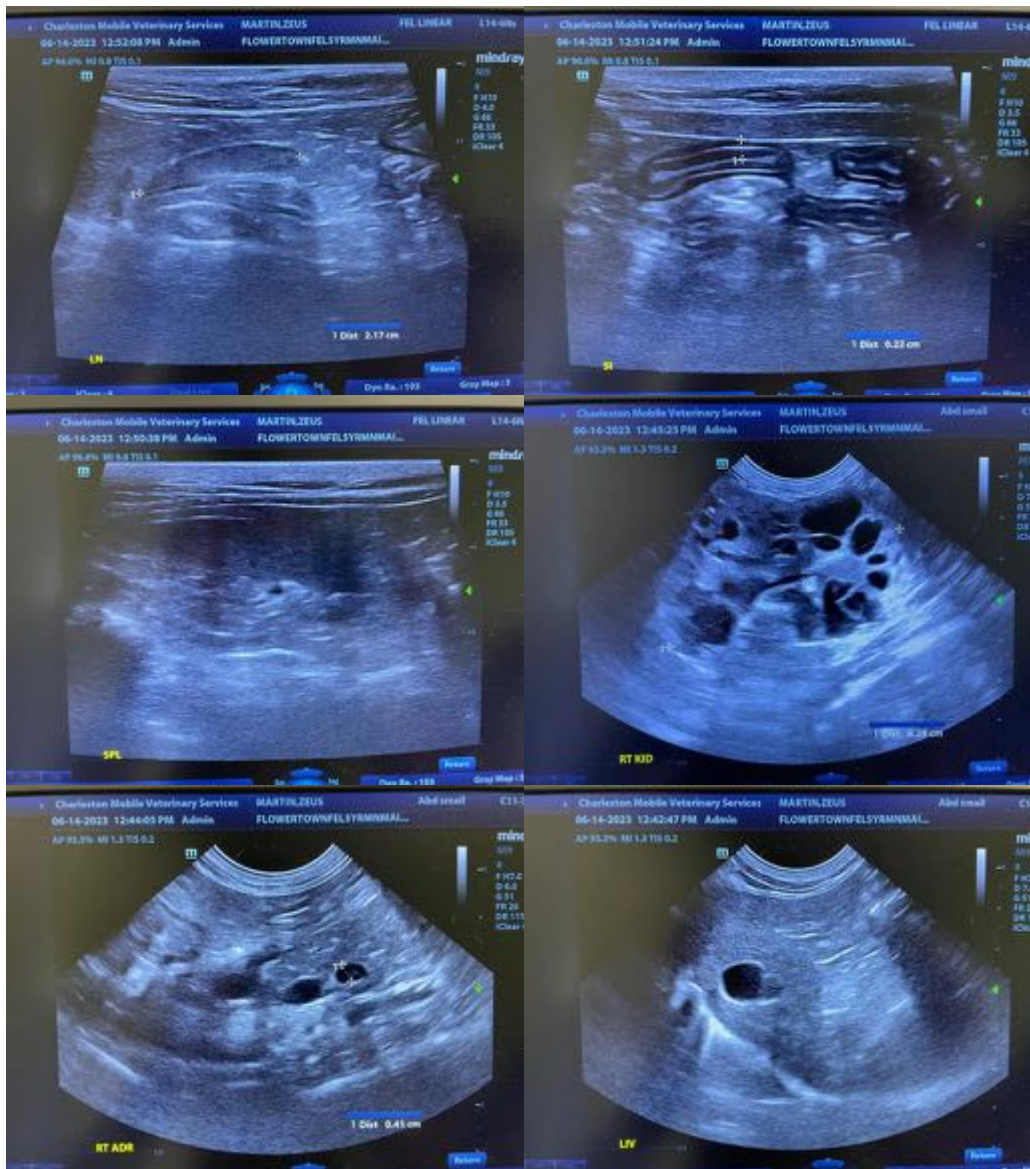
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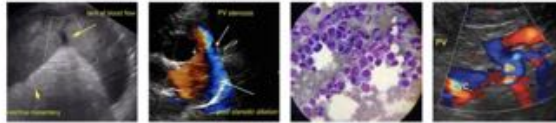
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**BREED**

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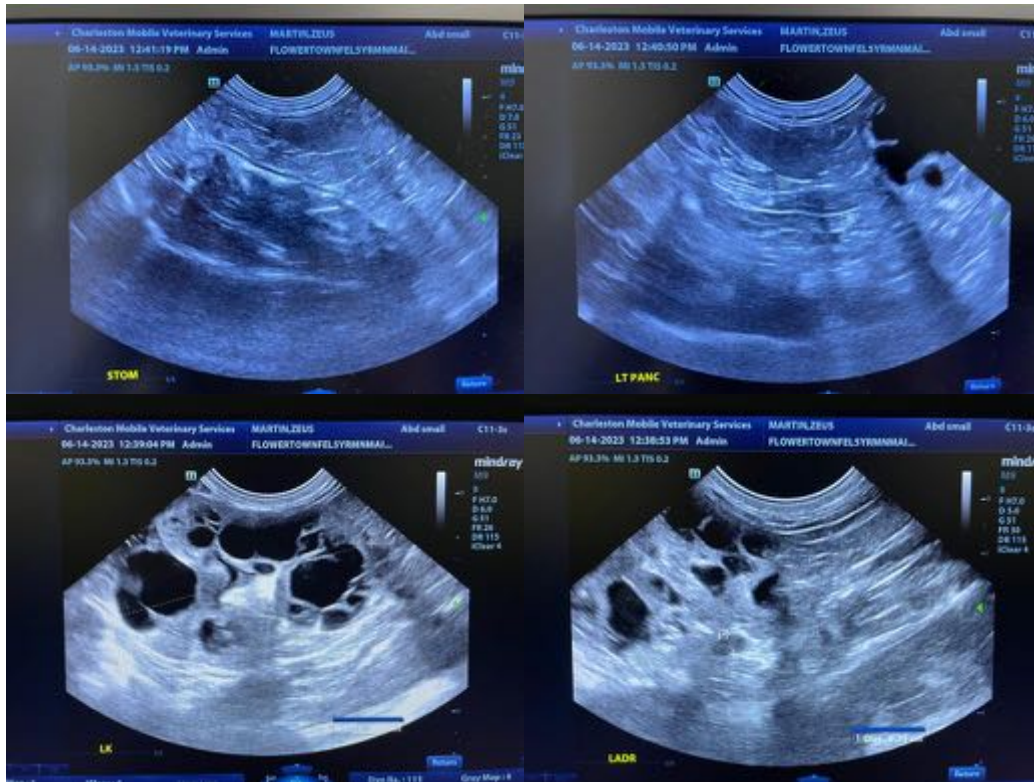
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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