



**PATIENT**

Annie Daghita

**SPECIES**

Canine

**BREED**

Mini Poodle

**SEX**

Spayed Female

**AGE**

8.6.2008

**WEIGHT**

23.18 lbs

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

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

**HOSPITAL NAME**

Flowertown AH

**REFERRING VET**

Dr. Kline

**INVOICE**

11371

**DATE**

8.9.2022

**PRESENTING CLINICAL SIGNS**

Clinical Exam Findings: Previous history of pancreatitis. Currently on GI LF and doing well  
Chronically elevated liver enzymes that wax and wane.

Abnormal lab-work values: ALT 529 (Feb); 148 (May); (732 most recent). Has been borderline  
azotemic for a while but is stable. ALP is currently 1465. B1 34. Creatinine 1.9.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder** wall is normal in thickness and the mucosal surface is smooth. The bladder lumen  
is moderately distended with anechoic urine. No masses, inflammatory changes or calculi are  
observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2 cm,  
are normal.

The **left kidney** is normal size (4.28 cm in length); normal shape and architecture with smooth  
peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild to moderate loss of  
corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter.  
Renal vasculature is normal.

The **right kidney** is normal size (5.07 cm in length); normal shape and architecture with smooth  
peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild to moderate loss of  
corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter.  
Renal vasculature is normal.

**Adrenal Glands**

The **left adrenal gland** is normal size (0.57 cm at cranial pole) (0.50 cm at caudal pole) (2.20 cm in  
length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are  
unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and  
surrounding vasculature are normal.

The **right adrenal gland** is upper limits of normal size (0.90 cm at cranial pole) (0.57 cm at caudal pole);  
normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable.  
Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding  
vasculature are normal.

**Spleen**

The **spleen** is normal in size (2.02 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.

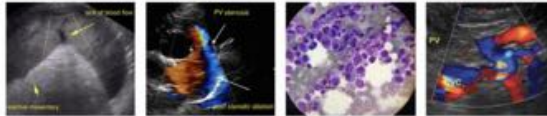
**Liver**

The **liver** is subjectively normal in size with normal curvilinear peripheral contours. The parenchyma is  
hyperechoic relative to the spleen and subtly mottled in appearance. No distinct focal lesions are  
observed. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence  
of congestion.

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.

**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



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intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. The lumen of the descending colon contains shadowing fecal material. There is no evidence of an obstructive pattern.

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### **Pancreas**

The region of the **pancreas** is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

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### **Free Abdomen**

The **peritoneal cavity** is normal. There is no evidence of inflammation or effusion. The abdominal **lymph nodes** are normal/not visible.

## SEX

Spayed Female

### **Other**

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

## ULTRASONOGRAPHIC FINDINGS

### AGE

8.6.2008

### Primary Findings

- An obvious cause for the elevated liver enzymes is not identified in the study. However, a microscopic hepatopathy (i.e., bacterial cholangiohepatitis, Leptospirosis, chronic active hepatitis, copper-associated hepatotoxicity, infiltrative neoplasia (less likely)) cannot be excluded.

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### Secondary Findings

- Bilateral, chronic, nonspecific, age-related renal changes

## INTERPRETED BY

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## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Consider Leptospirosis testing (i.e., blood and urine PCR, serology), particularly if the clinical suspicion for disease is high.

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Hepatic tissue sampling (i.e., fine-needle aspirate or surgical biopsy) can be considered if clotting status is appropriate. Hepatic cytology is useful in diagnosing vacuolar hepatopathy and round cell neoplasia but is less beneficial in assessing for other hepatopathies. Therefore, surgical biopsies are preferred. If pursued, aerobic and anaerobic bile cultures, as well as acquisition of additional hepatic tissue samples for potential copper quantitation are recommended.

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Flowerstown AH

If a conservative approach is desired, consider empirical treatment for bacterial cholangiohepatitis (amoxicillin-clavulanic acid, +/-metronidazole, Denamarin). If no improvement in the liver values is seen within 7-10 days of initiating therapy, antibiotics should be discontinued, and hepatic tissue sampling reconsidered. If liver values improve, continue therapy for at least 4-6 weeks and 1 week beyond normalization of the liver values.

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Regarding the azotemia, the following diagnostic/therapeutics can be considered:

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1. Baseline blood pressure measurement
2. Urine culture and sensitivity
3. Transition to a prescription renal diet, if not already currently receiving one

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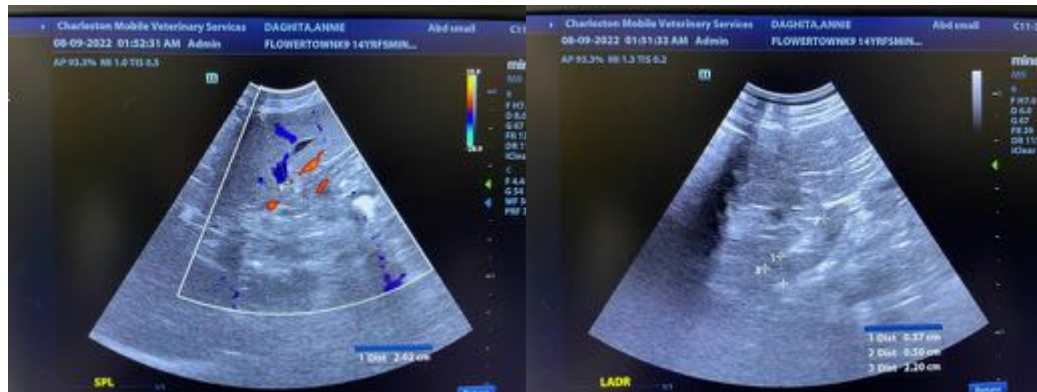
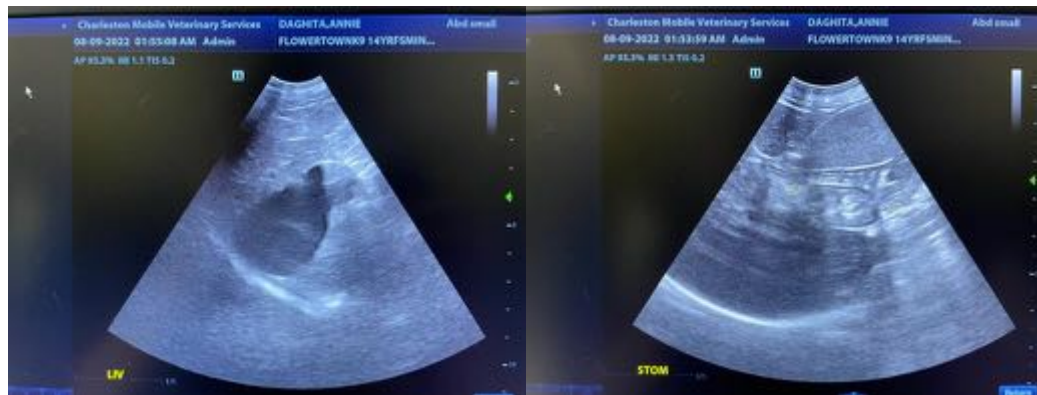
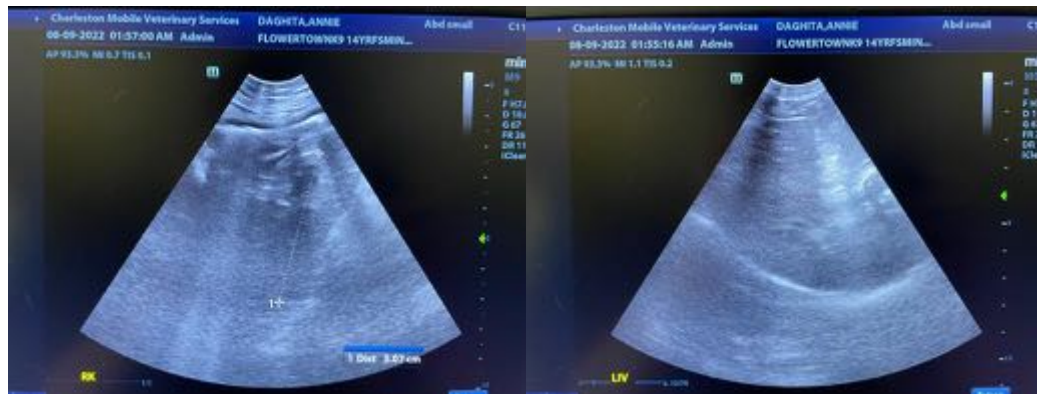
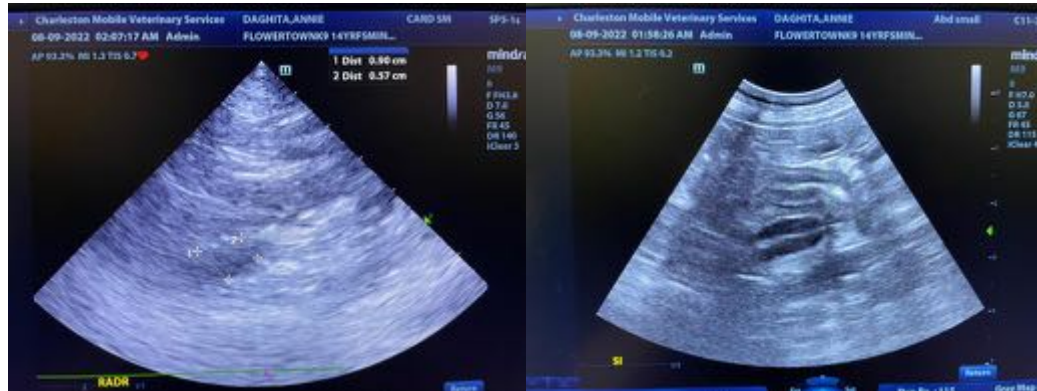
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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