



**PATIENT**

Sabrina Moore

**PRESENTING CLINICAL SIGNS**

History: Renal evaluation. Mild azotemia.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: SDMA 17, creat. 1.7. USG: 1.022.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

Maltese Mix

*Urinary System*

The urinary bladder is mildly distended. A small to moderate amount of aggregated, echogenic, suspended debris is observed within the lumen. The wall is normal to mildly thickened (up to 0.56 cm) with an irregular mucosal surface. No cystic calculi are seen. The region of the trigone appears normal.

**SEX**

Female intact?

The left kidney is normal size (3.94 cm in length) with an irregular shape. The cortex is hyperechoic. There is poor corticomedullary distinction. A 0.72 cm cortical cyst is observed at the lateral aspect. Moderate pyelectasia is present (0.62 cm in the longitudinal plane). There is no evidence of nephroliths or hydronephrosis. Renal vasculature is normal.

**AGE**

11 Years

The right kidney is normal size (3.57 cm in length) with an normal shape and smooth peripheral contours. The cortex is hyperechoic. There is poor corticomedullary distinction. Moderate pyelectasia is present (0.61 cm in the longitudinal plane). There is no evidence of nephroliths or hydronephrosis. Renal vasculature is normal.

**WEIGHT**

11.2 lbs.

*Adrenal Glands*

The left adrenal gland is normal size (0.32 cm at cranial pole) (0.50 cm at caudal pole) (1.30 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.

**INTERPRETED BY**

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

The right adrenal gland is mildly enlarged (0.91 cm at cranial pole) (0.62 cm at caudal pole) (1.38 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.

**IMAGING PERFORMED BY**

Kelly Vazquez, CVT

*Spleen*

The spleen is normal in size (0.81 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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Center

*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 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**

Dr. Ezik

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11894kk

*Gastrointestinal*

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is minimally fluid-distended. The gastric wall and pylorus are normal in thickness with a normal layering

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pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

**SPECIES**

Canine

**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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Maltese Mix

**Free Abdomen**

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

**SEX**

Female intact?

**Other**

What appears to be the left ovary is visible in the left mid-abdomen just caudal to the left kidney. It measures 0.61 x 0.73 cm and is homogeneous in appearance. No obvious pathology is observed.

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11 Years

The uterine body and left horn are visible. The lumen is moderately to severely dilated with fluid, which contains some suspended echogenic debris.

**WEIGHT**

11.2 lbs.

Three to four subcutaneous masses/structures are imaged, two to three of which are heterogeneous (one of which is cavitated). One lesion appears to contain echogenic fluid.

**ULTRASONOGRAPHIC FINDINGS**

**Primary Findings:**

- The uterine changes are concerning for pyometra. Other differentials include mucometra or hydrometra (less likely).
- The bilateral renal changes are most consistent with chronic interstitial nephrosis/nephritis with pyelectasia. The urinary bladder wall changes are suggestive of cystitis.

**Secondary Findings:**

- Mild right adrenomegaly.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

1. Vaginal cytology is recommended to further assess for pyometra. Ultimately, an ovariohysterectomy with submission of the uterus for histopathology is recommended.
2. A urine culture and sensitivity, UPC (if proteinuria is present) and baseline blood pressure measurement are recommended.
3. A prescription renal diet should be considered if the patient will tolerate it.
4. Three-view thoracic radiographs are recommended to assess cardiopulmonary status, particularly if fluid therapy may be needed in the future.

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## REFERRING VET

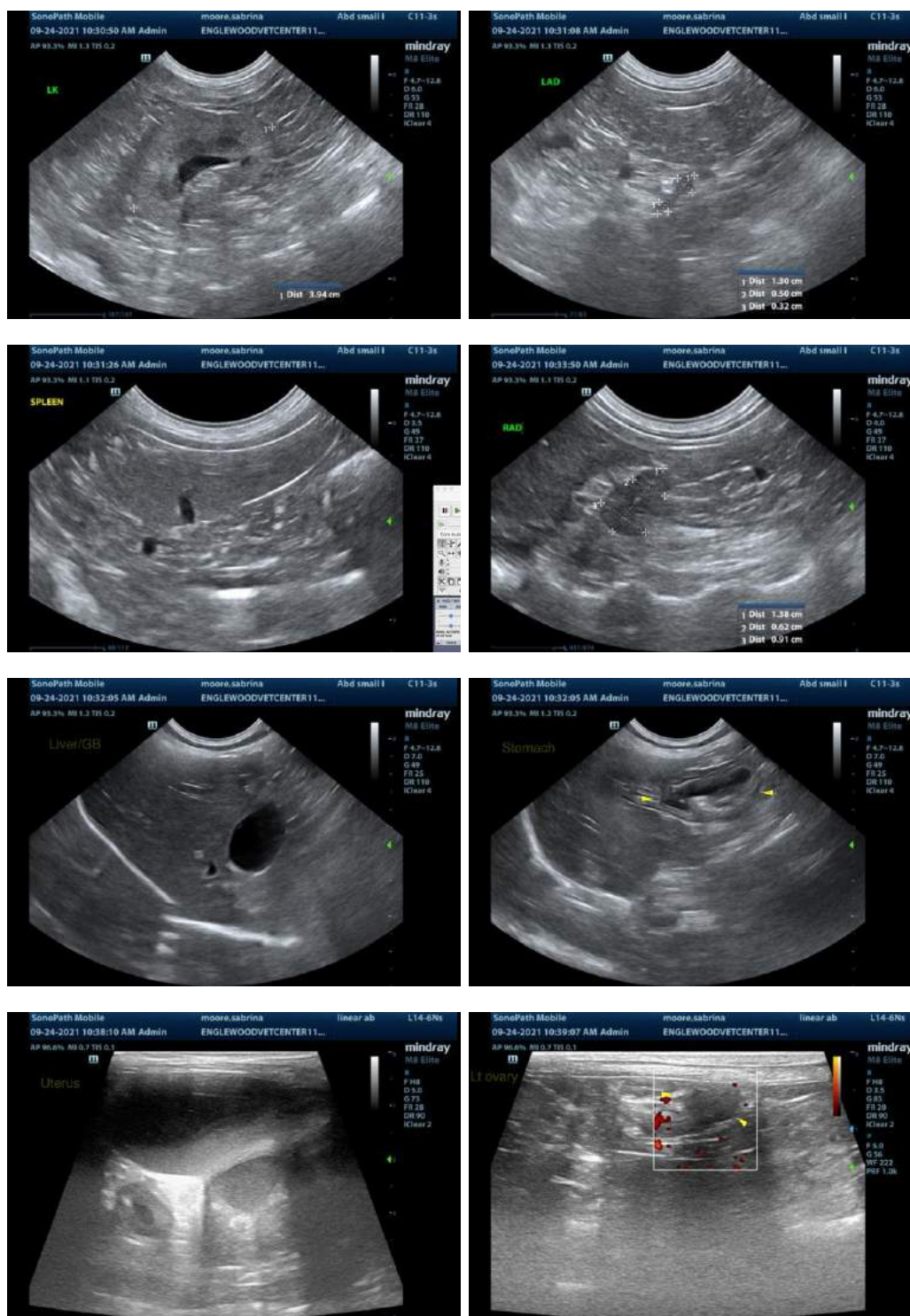
Dr. Ezik

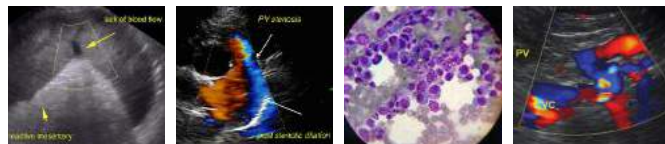
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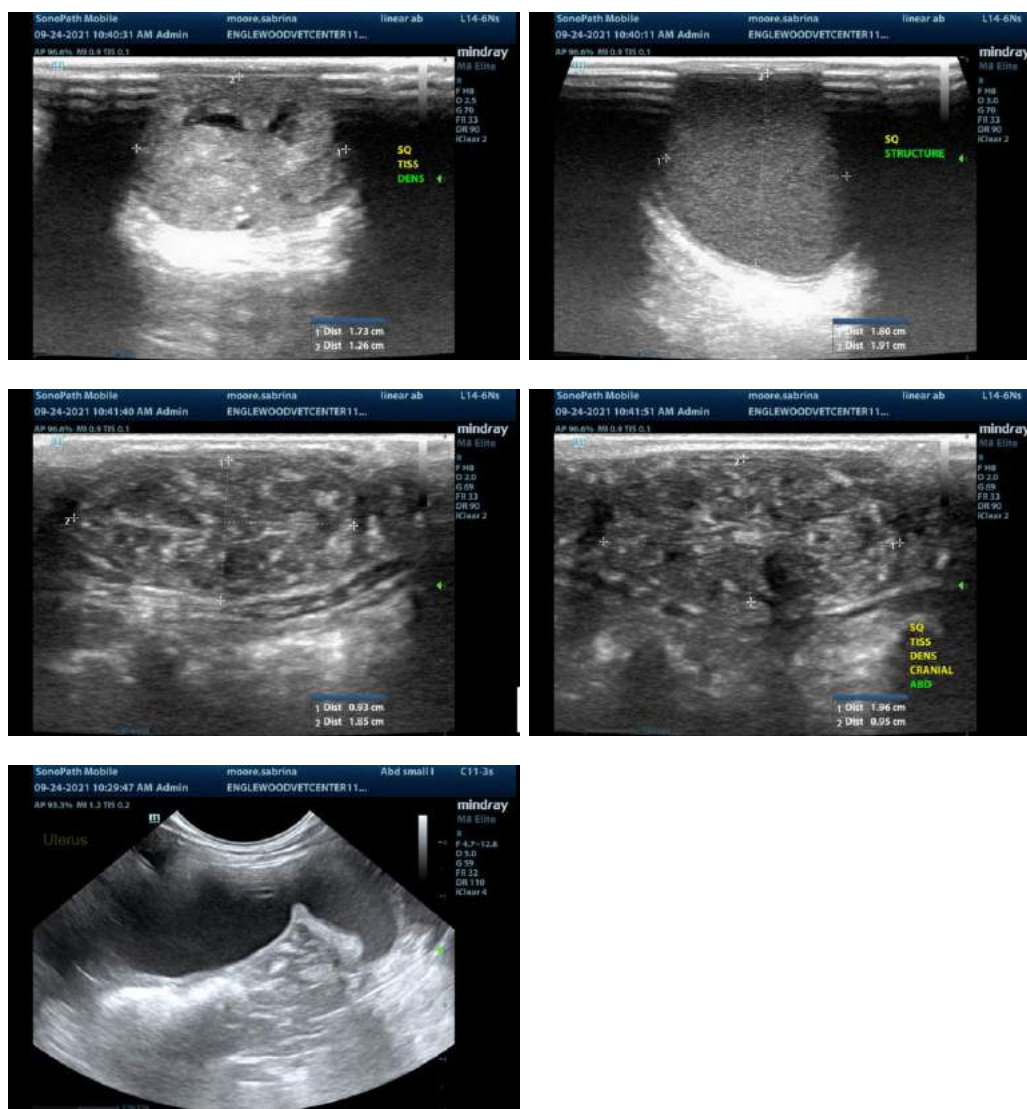
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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