**PATIENT**

Leika Dorrer

PRESENTING CLINICAL SIGNS

History: Elevated kidney enzymes and elevated calcium levels. Currently on Cerenia.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: (02/11/2022) CBC/CHEM: BUN 64.3, Creatinine 2.4, Calcium 12.5, Albumin 4.1, Cholesterol 326, GGT 20, Lipase 279.

BREED

Portuguese Water Dog

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder, trigone, and pelvic urethra are 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.

SEX

Spayed Female

AGE

14 years

The left kidney is normal in size (4.96 cm in length); normal shape and smooth peripheral margins. The cortex is variably thickened and mildly hyperechoic. There is mild to moderate loss of corticomedullary distinction. Mild pyelectasia is present (0.37 cm in the longitudinal plane). A small cortical cyst is observed at the caudal pole. There is no evidence of nephroliths, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

Not provided

The right kidney is normal in size (6.09 cm in length); with an irregular shape. The cortex is variably thickened and slightly hyperechoic. There is mild to moderate loss of corticomedullary distinction. Mild pyelectasia is present (0.29 cm in the longitudinal plane). There is no evidence of nephroliths, or hydroureter. Renal vasculature is normal.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland is normal in length (3.20 length); (0.40 cm at cranial pole) (0.33 cm at caudal pole); with a slightly flattened contour; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

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Potomac Mobile
Veterinary Ultrasound

The right adrenal gland is borderline enlarged (1.14 cm at cranial pole) (0.73 cm at caudal pole) (2.70 cm in length); with a slightly irregular 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.

HOSPITAL NAME

Pets and Vets Hospital

Spleen

The spleen is normal in size (1.75 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.

REFERRING VET

Dr. Cathy Jarrett

Liver

The liver is subjectively enlarged with slightly swollen peripheral contours. The parenchyma is hypoechoic relative to the spleen and exhibits subtle heterogeneity. At least one small ill-defined hyperechoic nodule is observed. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion.

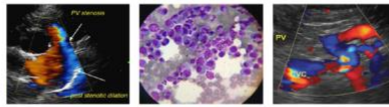
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The gall bladder is of normal contours and contains some dependent echogenic debris. The wall is

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normal in thickness. No choleliths are observed. The cystic and common bile ducts are normal/not seen.

SPECIES

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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 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 or overt infiltrative disease is noted.

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Portuguese Water Dog

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.

SEX

Spayed Female

Free Abdomen

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. A jejunal lymph node is visualized measuring 1.39 cm in length. The node is normal in shape and echogenicity.

AGE

14 years

ULTRASONOGRAPHIC FINDINGS**WEIGHT**

Not provided

Primary Findings

- Bilateral non-specific chronic nephropathy with mild pyelectasia

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Medicine)

Secondary Findings

- The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, regenerative nodular hyperplasia, and/or age-related remodeling. Inflammatory and infiltrative disease are considered less likely.
- The significance of the asymmetrical adrenal glands is unclear. This may be normal variant for this patient. However, emerging hyperplasia or neoplasia in the right adrenal gland are also possibilities.

IMAGING PERFORMED BY

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Veterinary Ultrasound

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- Regarding the azotemia and sonographic renal changes, the following diagnostics/therapeutics are recommended:
 1. Urine culture and sensitivity
 2. UPC (if proteinuria is present)
 3. Baseline blood pressure measurement
 4. Transition to a prescription renal diet (if patient will tolerate it)

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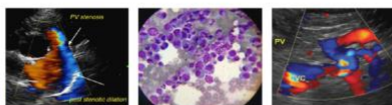
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- 5. Three-view thoracic radiographs are also recommended to assess cardiopulmonary status, particularly if fluid therapy is to be initiated.

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- Given the elevated total calcium, an ionized calcium +/- PTH/PTHrP

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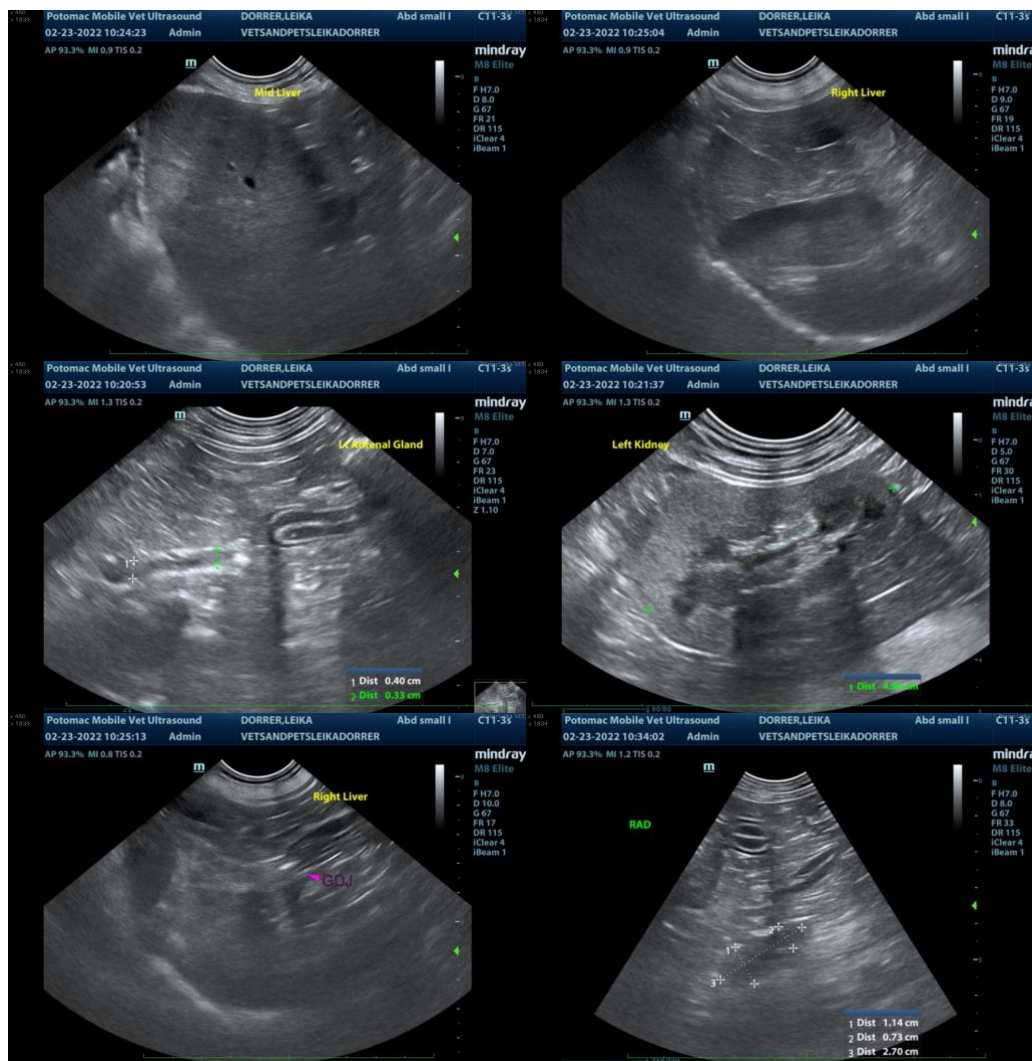
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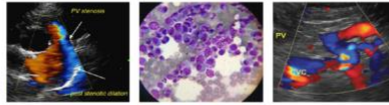
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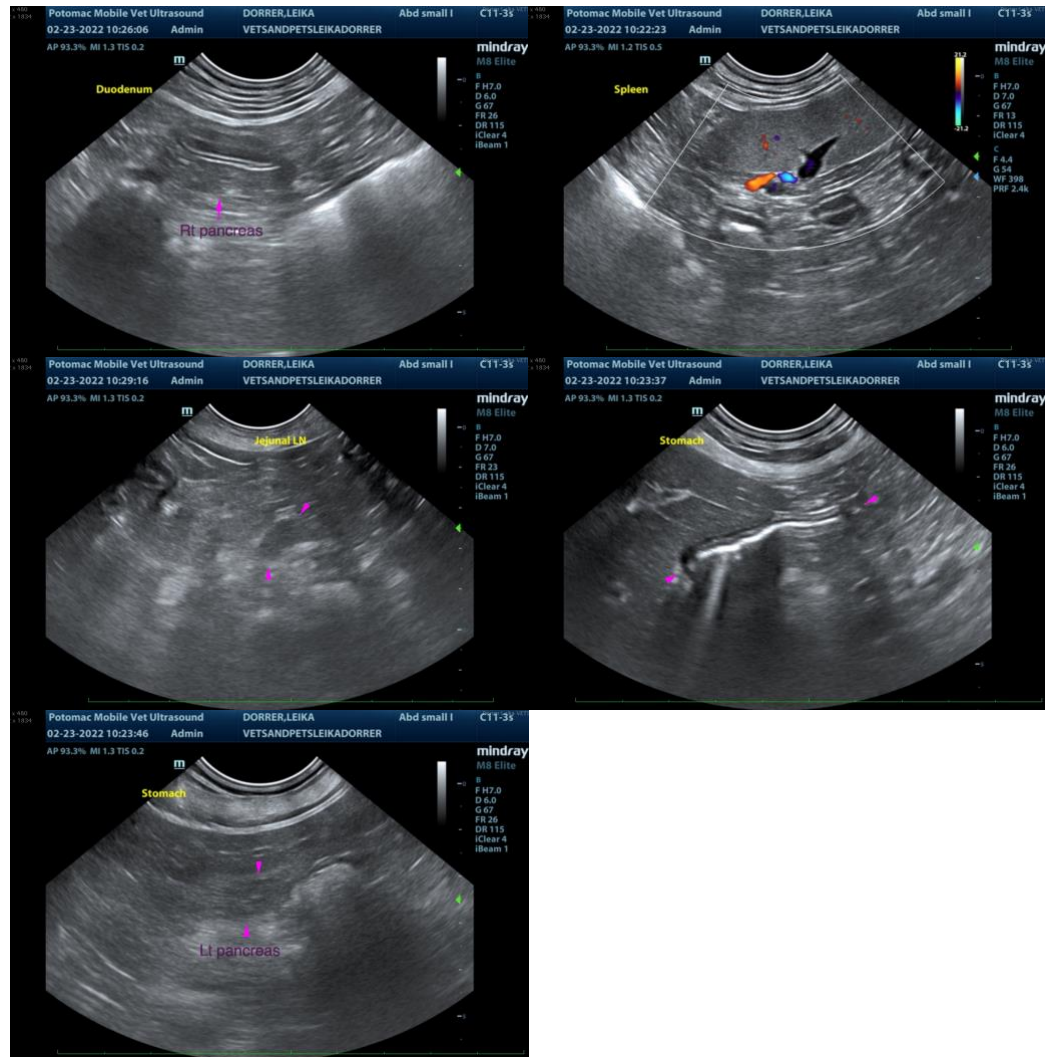
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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