



PATIENT

Paul Stanley O'Neil

SPECIES

Canine

BREED

Terrier x

SEX

Neutered Male

AGE

12 Years 7 Months

WEIGHT

30.6 lbs

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Mary Kermendy, CVT

HOSPITAL NAME

Wauwatosa Veterinary
Clinic

REFERRING VET

Dr. Ericka Haynes

INVOICE

75488

DATE

5/27/26

PRESENTING CLINICAL SIGNS

Several year history of elevated ALP. More recent (2-3 month) history of polydipsia and polyuria. Urine cortisol creatinine ratio test elevated. However, low dose dexamethasone suppression test not consistent with hyperadrenocorticism. ALP has decreased mildly with time, Denamarin and Ursodiol. Screening for neoplasia, gallbladder mucocele as potential cause of elevation.

Abnormal PE/Chem/CBC/UA Results: ABNORMAL EXAM/LAB RESULTS: ALP 1900 (ref range 23-212) UCCR 74 (ref range 0-34) CBC, chem panel, urinalysis results otherwise WNL.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is adequately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

Prostate is normal in size, echotexture and echogenicity for a neutered male.

The right kidney is normal in size (5.19 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

The left kidney is normal in size (4.92 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

Adrenal Glands

The right adrenal gland is normal in size (0.70 cm at cranial pole and 0.50 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

The left adrenal gland is normal in size (0.70 cm at cranial pole and 0.60 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

Spleen

The spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.

Liver

Liver is subjectively enlarged (swollen contour) without disruption of architecture. It has a normal homogenous echotexture. Parenchyma is diffusely hyperechoic characterized by less prominent than normal portal vein walls and increased echogenicity relative to the spleen and falciform fat. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

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Gastrointestinal

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

The visible small intestines are normal in wall thickness and layering. Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Pancreas

The observed pancreas appears appropriately isoechoic to surrounding omental fat. The capsule is mildly irregular in shape. Parenchyma is mildly heterogenous and coarse. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

Free Abdomen

There is no visible free peritoneal effusion noted in these images.

There is no apparent pathologic lymphadenopathy noted in these images.

In the right cranial abdomen, there are several discrete cystic structures of unknown origin measuring 1.5 cm x 1.8 cm in size and 1.7 cm x 1.2 cm in size.

ULTRASONOGRAPHIC FINDINGS

- Hyperechoic hepatomegaly – This appearance is non-specific and most consistent with a benign steroid (endocrine) or vacuolar hepatopathy or reactive or idiopathic hepatopathy. Inflammatory and/or infiltrative disease (such as round cell neoplasia) are also possible but considered less likely.
- Age related pancreatic remodeling.
- The cystic structures in the right cranial abdomen could represent pancreatic cystic densities or cystic lymph nodes, hematomas, abscesses, other. Infiltrative neoplasia is considered unlikely.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Three view thoracic radiographs are recommended for further assessment of cardio-pulmonary status as well as to further evaluate for any evidence of metastatic disease, if not recently evaluated.

If they can safely be reached, fine needle aspirates of the cystic structures in the right cranial abdomen could be considered if patient's coagulation status is appropriate.

Having said that, they are of unknown if any relation to patient's reported laboratory changes or historical PU/PD, neither of which is there is a definitive ultrasonographically visible intraabdominal explanation for. Patient's urinalysis results are reported to be within normal limits. If this means that the specific gravity is normal, that would be atypical for PU/PD and warrant further investigation of PU/PD, including assessment of patient's daily water intake.



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If urine has not been assessed since the PU/PD began, then a urinalysis and, if indicated based on urinalysis results, urine culture is recommended. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ratio is recommended.

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Emerging hyperadrenocorticism cannot be ruled out despite normal appearing adrenal glands, and if another diagnosis is not made, continued monitoring or recheck low-dose Dexamethasone suppression test in 3-6 months could be considered.

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Otherwise, differentials for a primary cholestatic liver enzyme pattern (increased ALP) are vast and non-specific. Differentials include, but are not limited to, benign nodular hyperplasia which occurs in 70% of older dogs and often does not result in an abnormal ultrasound, reactive or idiopathic/vacuolar hepatopathy, cholestasis and/or hyperadrenocorticism as well as many chronic non-hepatobiliary diseases such as chronic infections/inflammation from dental disease, IBD, neoplasia, hyperlipidemia, hypothyroidism, chronic pancreatitis, chronic stress, etc.

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Differentials for PU/PD are vast and include, but are not limited to:

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Primary polyuria caused by chronic kidney disease, pyelonephritis, liver disease, diabetes mellitus, hyperthyroidism, hypercalcemia, hyperadrenocorticism, hypoadrenocorticism, E.coli infections ie) pyometra in females, polycythemia, central diabetes insipidus or primary nephrogenic diabetes insipidus.

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Primary polydipsia caused by psychogenic polydipsia, fever, pain, or central nervous system disease.

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Most causes of PU/PD can be diagnosed with a comprehensive history and physical exam, a first AM urine specific gravity to see if urine concentration is possible (as most animals naturally consume less water overnight) followed by a comprehensive CBC, serum chemistry panel, electrolytes, and urinalysis.

IMAGING PERFORMED BY

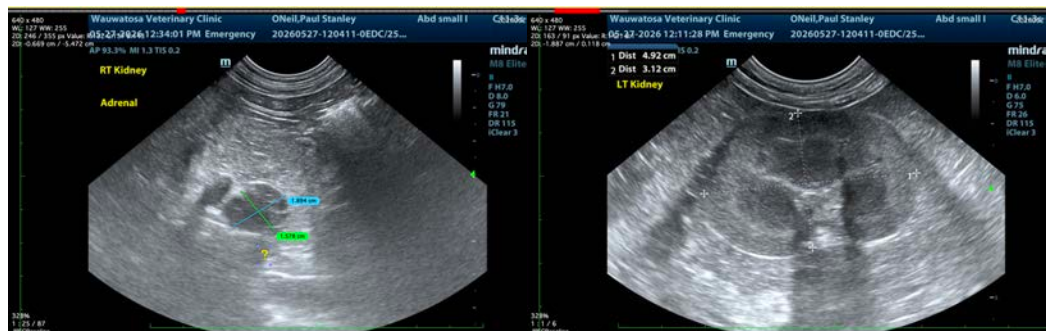
Mary Kermendy, CVT

If not, next step(s) may include a urine culture, low dose dexamethasone suppression test, T4, bile acids, Leptospirosis testing and/or an empirical course of antibiotics.

If a diagnosis is still not obtained, a more advanced work-up is indicated and consultation with an internist may be warranted.

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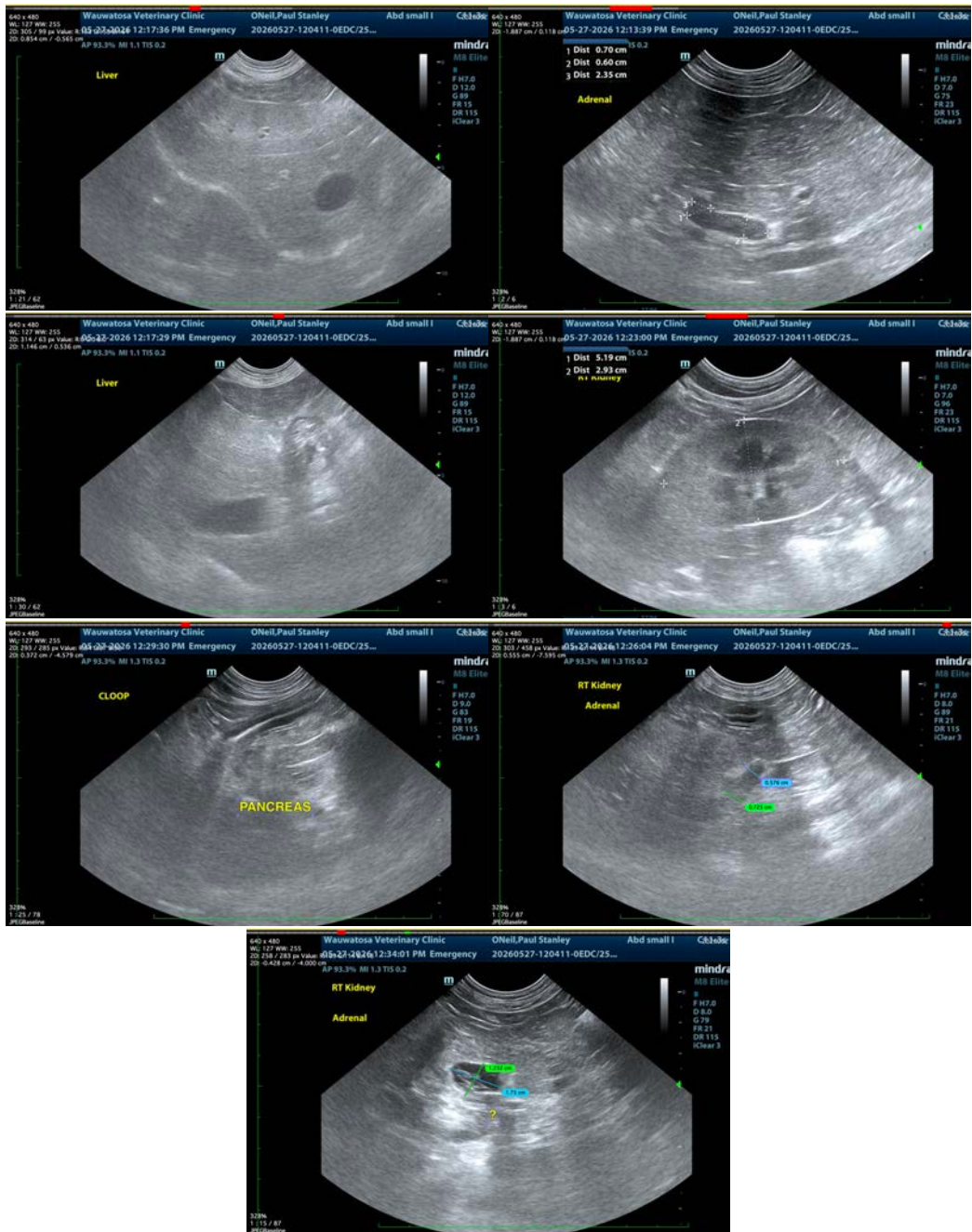
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM, DACVIM info@sonopath.com