

PATIENT PRESENTING CLINICAL SIGNS

Costa Clyburn Clinical Exam Findings: Intermittent hematuria

SPECIES Abnormal lab-work values: ALT-128; AST-60
Radiographic Findings: Possibly enlarged prostate; No urinary stones noted in the urinary tract

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

DSH The urinary bladder is moderately distended. The wall is normal in thickness. The mucosal surface at the region of the apex is slightly irregular. A moderate amount of suspended echogenic debris is observed within the lumen. No cystic calculi are observed. The region of the trigone and the proximal urethra are normal, visible to a depth of 2-3 cm, are normal. The penile urethra was evaluated. No obvious abnormalities were seen.

SEX

Intact Male

AGE

09/24/2012

The prostate is enlarged (6.35 cm in width) with a slightly irregular shape. The parenchyma is hyperechoic relative to surrounding omental fat and heterogenous in appearance. A few ill-defined cystic areas are observed (the largest measuring 0.92 cm in diameter). The prostatic urethra is not overtly dilated.

WEIGHT

67 lbs

The left kidney is normal in size (7.83 cm in length) with a normal shape, architecture and smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with moderate loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

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The right kidney is normal in size (9.15 cm in length) with a normal shape, architecture and smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with moderate loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

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Adrenal Glands

The left adrenal gland is normal in size (0.86 cm at cranial pole) (0.73 cm at caudal pole) with a normal shape and 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

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The right adrenal gland is in normal size (1.01 cm at cranial pole) (0.51 cm at caudal pole) with a normal shape and 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 subjectively normal in size with a normal capsular contour. A light micronodular pattern is observed throughout the organ. No focal lesions are observed. Splenic vasculature is normal.

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Liver

The liver is subjectively normal in size with normal curvilinear peripheral contours. The parenchyma is hypoechoic relative to the spleen with minor changes consistent with age-related remodeling. No focal lesions are observed. Hepatic vasculature and biliary tracts are of normal volume with no evidence of congestion.

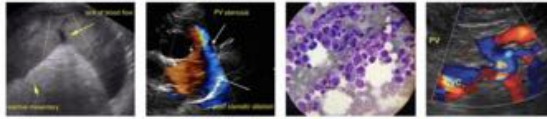
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12071

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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.



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Gastrointestinal

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is minimally distended with ingesta. 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 with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. There is no evidence of an obstructive pattern.

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.

Free Abdomen

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

Other

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

The left testicle is subjectively normal in size (3.25 x 1.40 cm) and shape, with homogenous parenchyma.

The right testicle is subjectively normal in size (3.51 x 1.95 cm) and shape with homogenous parenchyma.

ULTRASONOGRAPHIC FINDINGS

Primary Findings

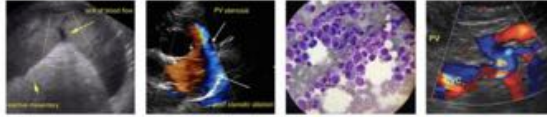
- The prostate changes are most consistent with cystic benign prostatic hyperplasia. Given the patient's clinical history of a fever and hematuria, concurrent bacterial prostatitis is a top differential.

Secondary Findings

- Bilateral chronic age-related renal changes
- The hepatic changes are consistent with age-related parenchymal remodeling and are not considered clinically significant at this time.
- The splenic parenchymal changes are most consistent with a benign process such as lymphoid hyperplasia, extramedullary hematopoiesis, splenitis or antigenic stimulation with a low possibility of infiltrative neoplasia (i.e., lymphoma, mast cell neoplasia).

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- A repeat urinalysis with culture and sensitivity is recommended. While awaiting test results, initiation of broad-spectrum antibiotics (i.e., fluoroquinolone) is recommended. Castration is strongly encouraged. If the patient's urine culture and sensitivity does not support prostatitis, further work-up for a fever of unknown origin (i.e., tick panel, thoracic radiographs, echocardiogram, etc), may be warranted.



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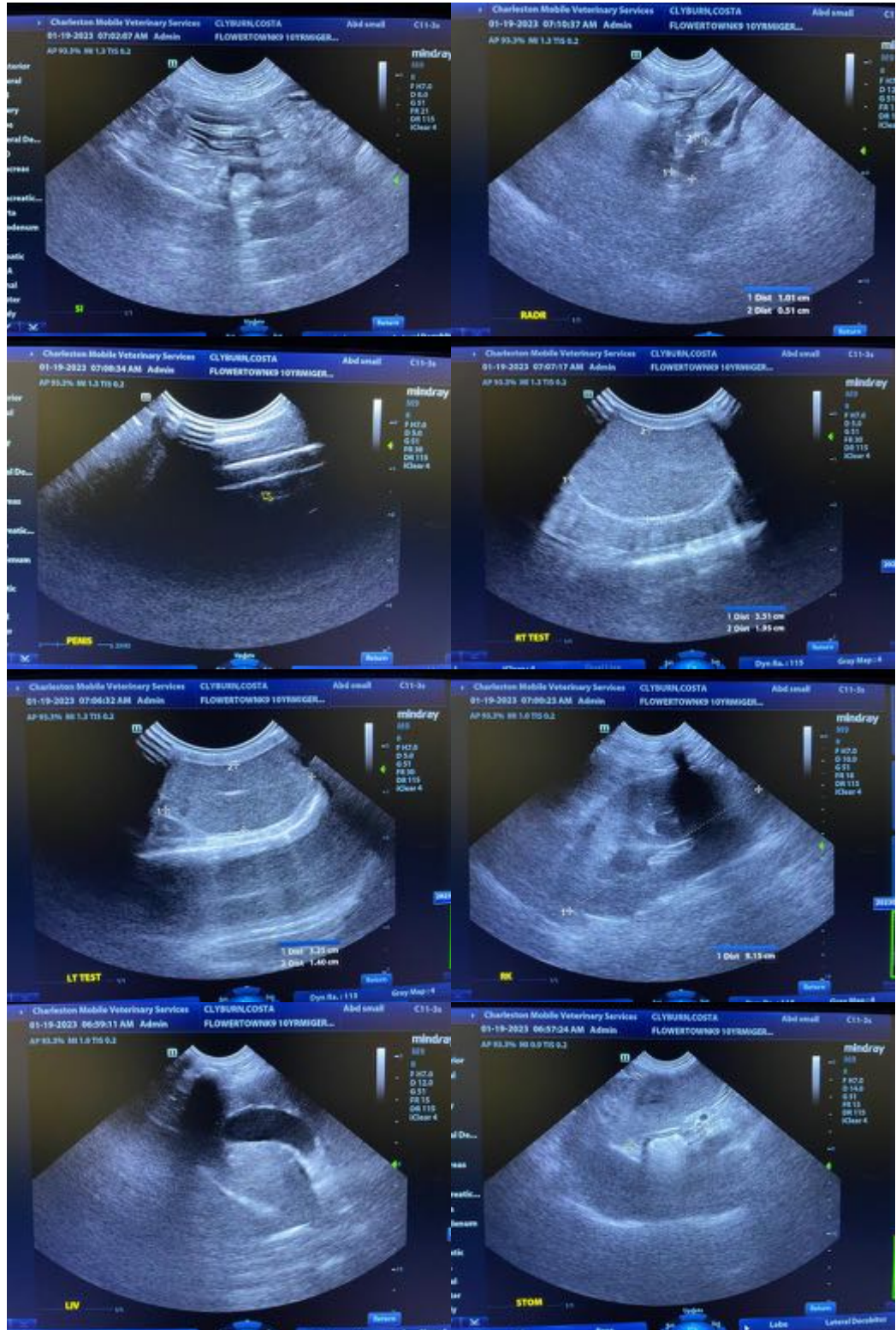
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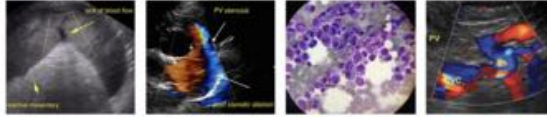
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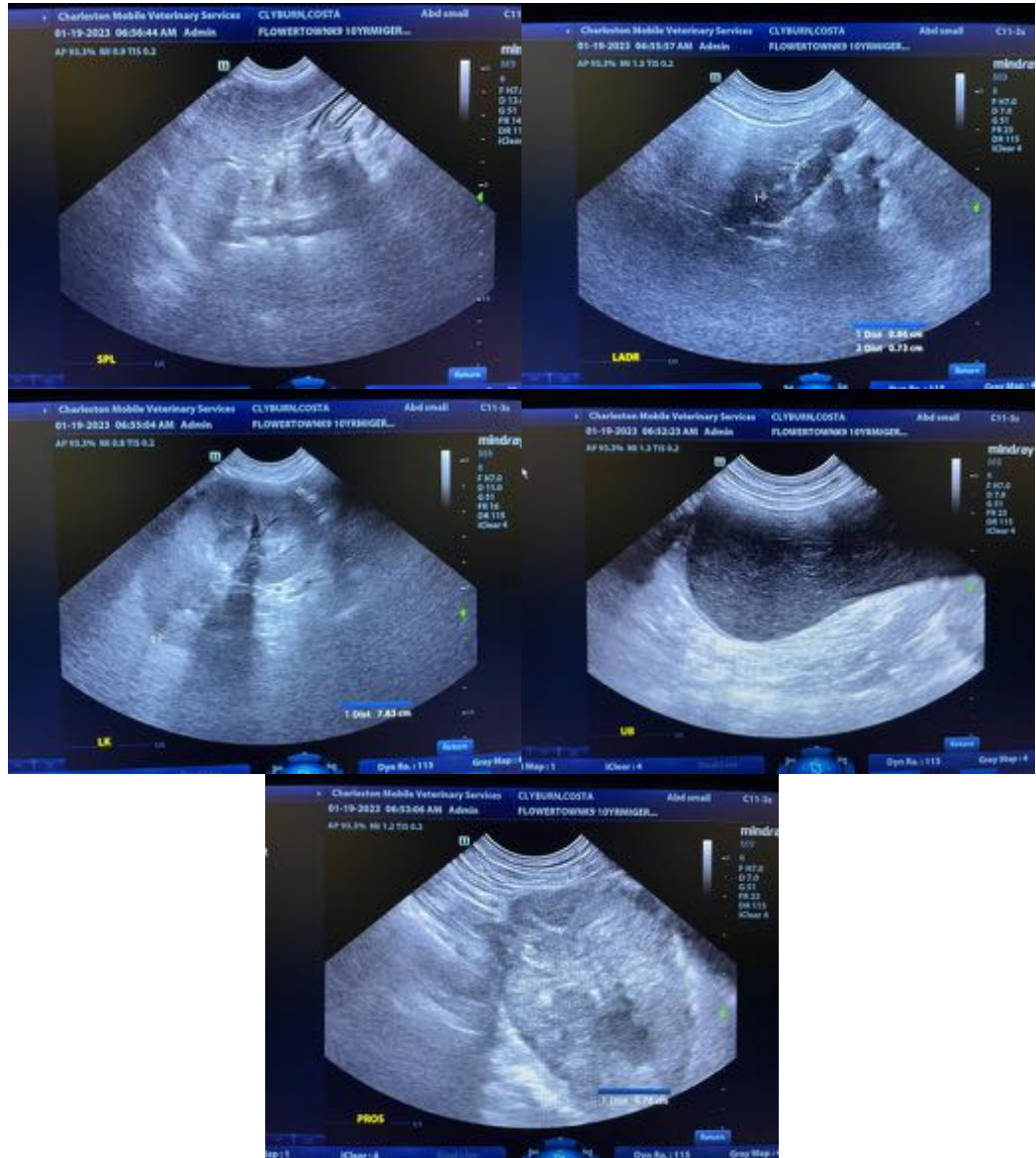
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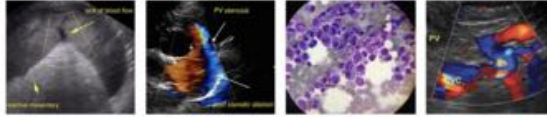
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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info@SonoPath.com



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