

**PATIENT**

Jasmine Jones

**PRESENTING CLINICAL SIGNS**

History: Hematuria on UA. No bladder calculi. Hypertension controlled

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder** presented minor apical wall thickening with polypoid changes and echogenic mucosal remodeling. A mild amount of sand was present. The cystourethral junction was unremarkable, however, a urethral mass was noted in this patient, measuring 2.0 cm x 0.6 cm, initiates approximately 2.0 cm distal from the cystourethral junction.

**BREED**

Mixed

**SEX**

Spayed Female

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some moderate age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex. Slight pyelectasia (0.48 cm x 1.93 cm) was noted in the left kidney. Minor mineralization was noted in both kidneys. The left kidney measured 5.16 cm. Pyelectasia was noted in the right kidney, measuring 1.45 cm x 0.68 cm.

**AGE**

11 Years 4 Months

**Adrenal Glands**

**WEIGHT**

29.8 Pounds

The **left adrenal gland** was visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 2.72 cm x 0.72 cm.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

The **right adrenal gland** was slightly heterogeneous and mildly nodular, measuring 1.9 cm x 1.4 cm. Minor capsular expansion was noted without capsular escape.

**Spleen**

**IMAGING PERFORMED BY**

Eric Lindquist, DMV  
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The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

**HOSPITAL NAME**

Greenwood Lake AH

**Liver**

**REFERRING VET**

Dr. Louer

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some minor age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

**INVOICE**

16552

**Gastrointestinal**

**DATE**

7/26/22



## PATIENT

Jasmine Jones

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

## SPECIES

Canine

## Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

## BREED

Mixed

## ULTRASONOGRAPHIC FINDINGS

## SEX

Spayed Female

- Nodular hyperplasia right adrenal, minor potential for emerging carcinoma or pheochromocytoma
- Moderate degenerative renal changes yet not subjectively end-stage. Bilateral pyelectasia with mineralization.
- Deep urethral tumor, not resectable. Bladder sand
- Age-related hepatic changes

## AGE

11 Years 4 Months

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

## WEIGHT

29.8 Pounds

The patient is likely passing calculi periodically. The kidneys do not appear subjectively end-stage. Ultrasound guided laser ablation, stent placement and chemotherapy all could be considered. No evidence of metastatic disease. Likely transitional cell carcinoma. The hematuria may be episodic, then possibly owing to passage of calculi from the kidneys to the bladder and bladder through the lower urinary tract. If persistent, then the urethral tumor may be the underlying issue. Attention should be paid to a development of straining in this patient. Blood pressure measurements are warranted, if elevated, the right adrenal could represent early pheochromocytoma and urine catecholamine would be warranted. However, this is most consistent with nodular hyperplasia and likely benign. Referral for urethral stent placement could be considered, however, should be balanced with the cardiac presentation. Adjustment of diuretic to lowering Lasix and adding spironolactone may be an option. Assessment of this potential with the managing cardiologist would be recommended.

## INTERPRETED BY

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## REFERRING VET

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## DATE

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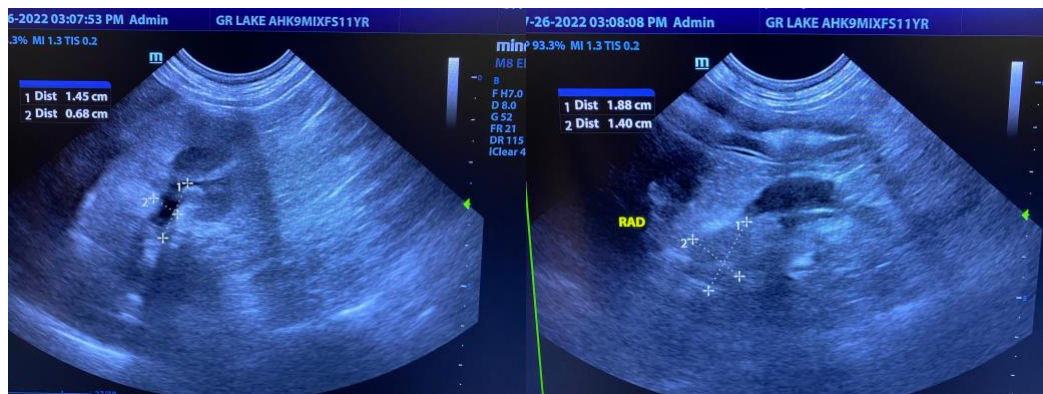
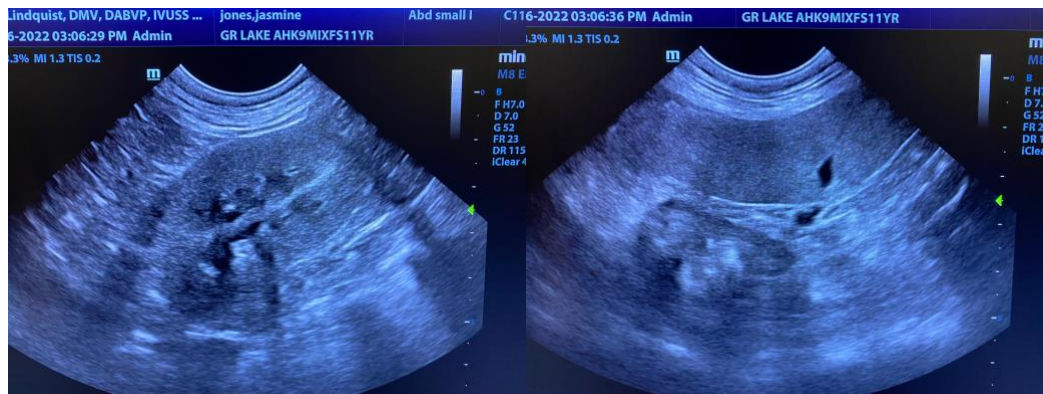
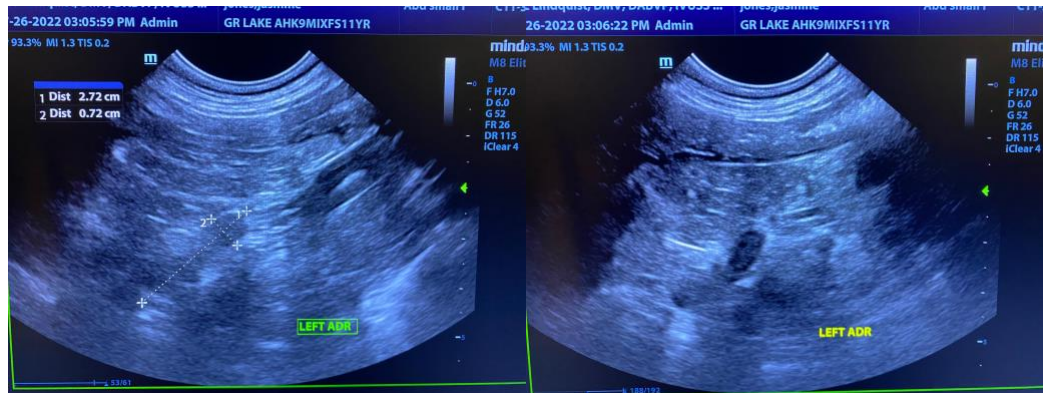
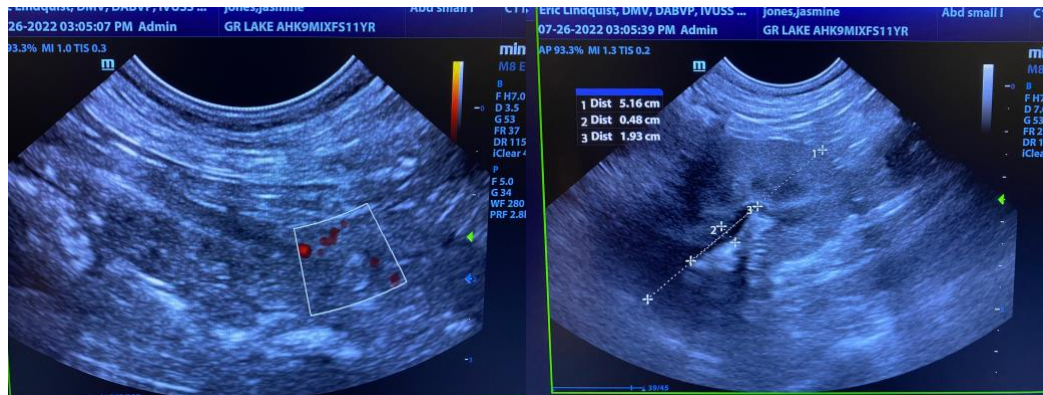
Dr. Louer

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The information and recommendations provided are based on the images presented by the



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**referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

**SPECIES**

Canine

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.

**BREED**

Mixed

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
info@SonoPath.com

**SEX**

Spayed Female

**AGE**

11 Years 4 Months

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