



**PATIENT PRESENTING CLINICAL SIGNS**

Remy Jackson History: PuPd, diagnosed with *E. coli* cystitis. Ongoing PuPd post therapy. Blood work showed azotemia. Suspected pyelonephritis and follicular cystitis on ultrasound.

**SPECIES** Physical Examination: N/A.

Canine Urinalysis: SG 1.008, pyuria, mild hematuria. *E. coli* on culture.

**BREED** CBC: Normal.

Golden retriever Serum Biochemistry: Mild azotemia, hyperphosphatemia, and hypercalcemia. Normal basal cortisol. Mildly elevated ALT activity.

**SEX** Radiographic Findings: N/A.

Intact Female

**Age**

7 months

**WEIGHT**

16 kg

**INTERPRETED BY**

Remo Lobetti, BVSc,  
MMedVet (Med), PhD, Dipl.  
ECVIM

**IMAGING PERFORMED BY**

Dr Sarah Barthelemy

**HOSPITAL NAME**

Britannia Kingsland Vet  
Clinic

**REFERRING VET**

Dr Radcliffe

**INVOICE**

303666

**DATE**

12/15/22

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Full urinary bladder with a normal thickness and appearance of the wall. Normal anechoic urine with no sediment or uroliths evident.

Normal trigone area, proximal urethra, and iliac blood vessels.

Normal iliac lymph nodes (0.6 cm). Ureters not visualized.

Normal renal size (left 6 cm, right 6.8 cm) with increased echogenic appearance, loss of cortico-medullary differentiation, pyelectasia (right 0.5 cm), and normal capsule.

**Reproductive System**

N/A.

**Adrenal Glands**

Normal position, echogenic appearance, shape, and size. Left 0.38 cm.

**Spleen**

Normal size and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

**Liver**

Normal size, echogenic appearance, portal markings, and regular curvilinear capsule. No nodules or masses evident. Full gall bladder containing normal anechoic bile. Normal thickness and echogenic appearance of the gall bladder wall. Normal bile duct.

**Gastrointestinal**

Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness (jejunum 0.48 cm) and peristaltic activity, and no distension of the lumen.



**PATIENT** *Pancreas*

Remy Jackson Normal size (left 1.2 cm) and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

**SPECIES** *Free Abdomen*

Canine No mesenteric lymphadenomegaly.  
No ascites.

**BREED**

Golden retriever

**ULTRASONOGRAPHIC FINDINGS**

Primary Findings:

- Renal disease.

Secondary Findings:

- None.

**SEX**

Intact Female

**Age**

7 months

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

16 kg

Etiologies for the renal disease would be congenital renal disease/renal dysplasia, previous acute kidney injury (toxins, infection, hypoxia,), hypercalcemic nephropathy, bacterial nephritis, and pyelonephritis. Renal dysplasia has been reported in the Golden retriever with a probable inherited nature. Juvenile renal disease may be associated with renal dysplasia but may also be a manifestation of in-utero or early subclinical infection or a hypoxic event during partus.

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The only way to reach a final etiological diagnosis would be renal biopsy, which may not change the management or the outcome. Additional further assessment would be blood pressure and UPC.

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Management of the UTI:

- Long term (4-6 weeks) antibiotic therapy based on urine culture sensitivity.

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Management of the renal disease would be:

- Renal diet, which at her age could be an issue and consulting a nutritionist would be recommended.
- Free access to water at all times.
- Avoiding any nephrotoxic drugs.
- Ensuring that blood pressure is maintained if she is sedated or anesthetized.
- Adding enalapril or an ACE receptor blocker.
- Adding enteric phosphate binders if dietary therapy is ineffective.

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Regular monitoring:

- Body weight.
- Urinalysis, with culture if there is evidence of bacteria.
- Hematology/PCV
- Renal function (SDMA, urea, creatinine).
- Serum phosphate and calcium.
- Blood pressure

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**PATIENT**

Remy Jackson

**SPECIES**

Canine

**BREED**

Golden retriever

**SEX**

Intact Female

**Age**

7 months

**WEIGHT**

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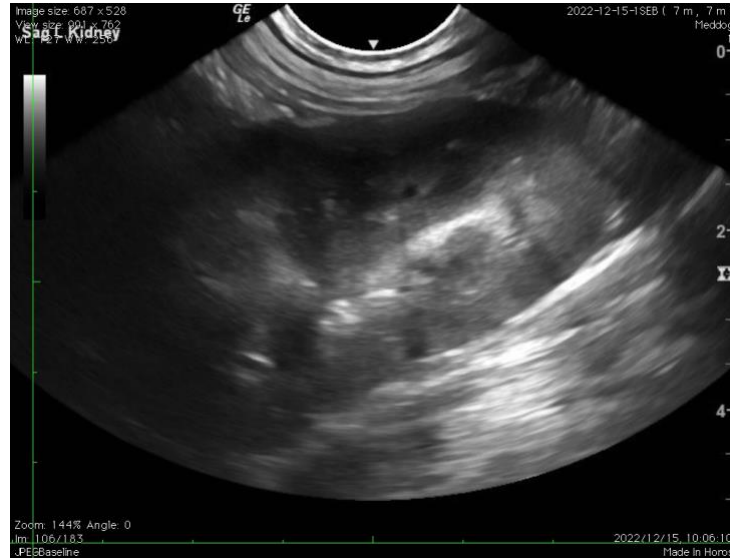
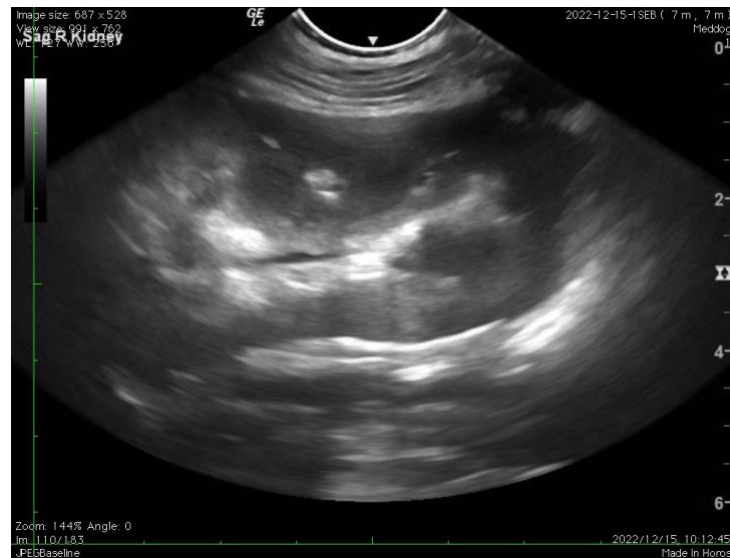
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**IMAGES**
**Left kidney**

**Right kidney**


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.

**Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM (Internal Medicine)**  
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