



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Cooper Hammell  
**SPECIES** Canine  
**BREED** Golden Retriever  
**SEX** Neutered Male  
**AGE** 11 Years  
**WEIGHT** 46.3 kg

Dental cleaning and growth removal 10/14/22. Medications Carprofen 75 mg 1 tab PO BID with food; Amoxicillin 500 mg 1 cap PO BID. Presented 10/17/2022 with hematuria noticed at home. Owner thought abdomen seemed bloated. UA showed hematuria without bacteria. Three hyperechoic, nodular-like lesions noted during bladder sonogram for cystocentesis. Bladder radiographs normal. Carprofen discontinued on 10/17/22. CADET BRAF test performed, results negative (undetected). Presented today (11/11/2022) for abdominal ultrasound and recheck of bladder. Cooper has had several episodes of vomiting in the past few weeks. Hematuria still present but less severe. No stranguria.

Abnormal PE/Chem/CBC/UA Results: PE - BCS 7/9; mild decrease of hindquarter musculature; slower to rise on slippery floor; no lameness when walking. UA (10/17/22): SG 1.031; pH 6; Bld 250 Ery/ul; no bacteria on dry mount; Lesions within bladder noted at time of cystocentesis on 10/17/22 (but not appreciated today): hyperechoic nodular lesions; (1) cranial area of bladder, laying along gravity dependent wall, shadowing present- 1.56 cm x 0.9 cm (2) central bladder wall spherical with minimal shadowing- 10.5 cm (3) caudal, near trigone, irregular shaped lesion, extending from wall into central portion of bladder- 2.11 cm x 0.73 cm 11/4/2022: CADET BRAF - undetected CADET BRAF-PLUS - undetected - sensitivity to detect TCC/UC with clinical signs - 95%

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder** presented micropolypoid changes with mural hypertrophy. Anechoic urine. The pelvic urethra was imaged 312.0 cm beyond the cystourethral junction. No evidence of masses or calculi.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex. The capsules were acceptably uniform without significant irregularities. The right kidney measured 6.43 cm. The left kidney measured 7.75 cm with trace pyelectasia noted.

**Adrenal Glands**

Both **adrenal glands** were 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 0.63 cm at the cranial pole and 0.74 cm at the caudal pole. The right adrenal gland measured 0.63 cm.

**Spleen**

The **spleen** presented relatively normal size and contour with multifocal hyperechoic nodular changes, most consistent with fatty deposits or lipogranulomas. These are not typically pathological. No suspicion of significant. Capsular and parenchymal integrity was normal otherwise.

**Liver**

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some 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,

**INTERPRETED BY**

Eric Lindquist, DMV  
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**IMAGING PERFORMED BY**

Dr. Woodside

**HOSPITAL NAME**

Sherwood Family PC

**REFERRING VET**

Dr. Woodside

**INVOICE**

42753

**DATE**

11/11/22



**PATIENT**

Cooper Hammell

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.

**Gastrointestinal**

**SPECIES**

Canine

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.

**BREED**

Golden Retriever

**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.

**SEX**

Neutered Male

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

11 Years

- Mild cystitis pattern – may be permanent changes from prior episodes of UTI.
- Minor bladder polyps – may be benign.
- Lipogranulomatous splenic changes
- Age related hepatic changes

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No evidence of significant disease. No evidence of masses.

**WEIGHT**

46.3 kg

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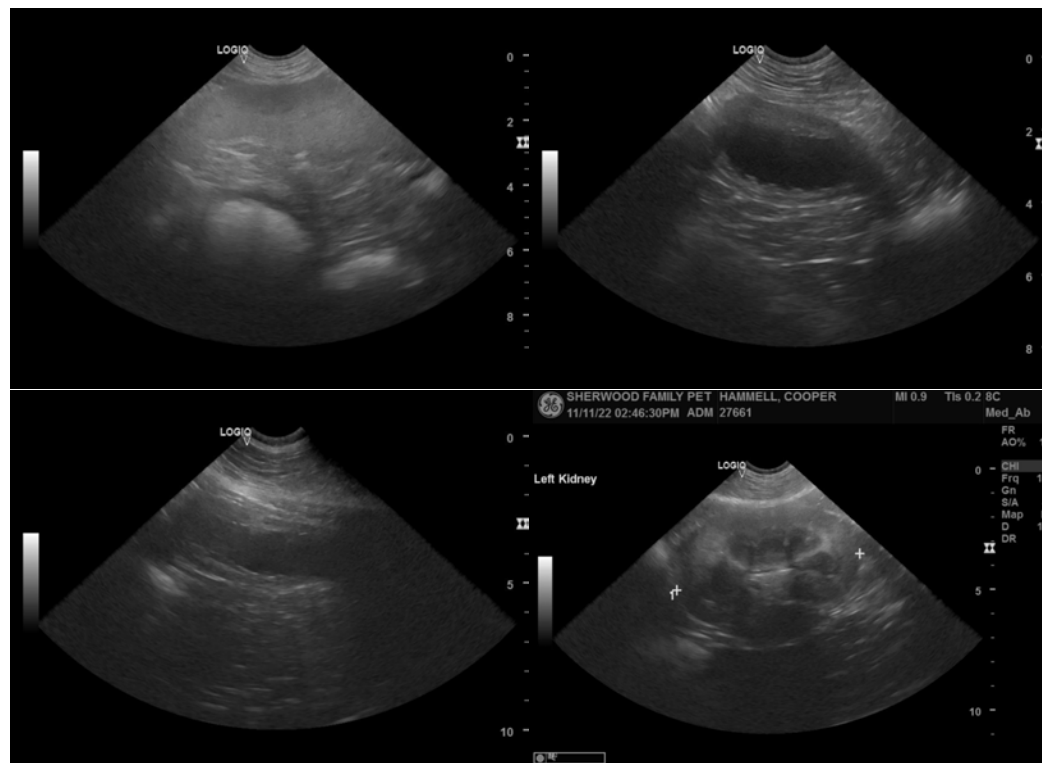
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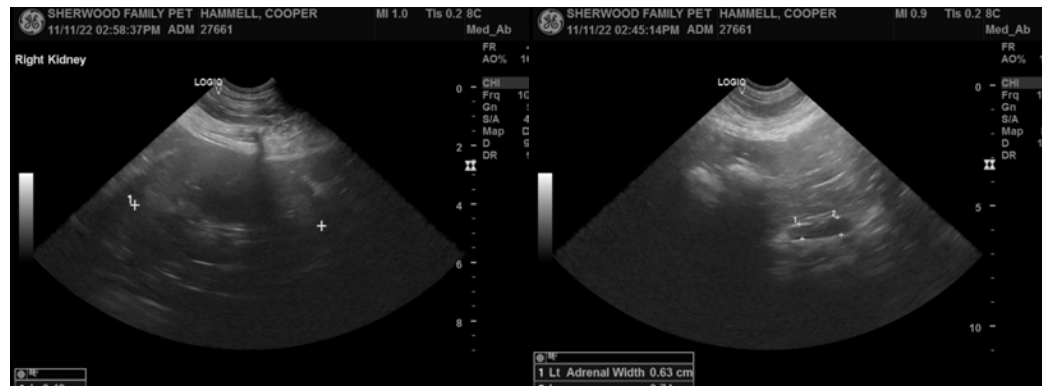
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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