



**PATIENT**

Clay Nielsen

**SPECIES**

Canine

**BREED**

English Setter

**SEX**

Male

**AGE**

12 Years 8 Months

**WEIGHT**

50 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Dr. Ebersole

**HOSPITAL NAME**

Scanvet

**REFERRING VET**

Dr. Kaltsas

**INVOICE**

16637

**DATE**

8/1/22

**PRESENTING CLINICAL SIGNS**

History: Weight loss, but no change in appetite. Weak in rear legs, won't jump in car. Treated for IBD with Tylan and LP diet with no change. Under care of cardiologist for high BNP and ventricular arrhythmia. On Sotalol and Enalapril (for renal disease). Torbugesic for mild sedation.

Abnormal PE/Chem/CBC/UA Results: PE: weight loss and generalize muscle wasting (recent). ALT 191, SDMA 15, Chol 411, WBC 4.7, Retic Hg 23.4 L proBNP: 10,000 (historic) UPC 1.3. Recheck echo/ECG: attached, WNL

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

The **prostate** was uniformly enlarged (5.26 cm) with lobar swelling appeared to impinge upon the urethra and mildly deviate the descending colon. The prostatic tissue was hyperechoic containing focal areas of decreased echogenicity. These changes are suggestive of either chronic inflammatory episodes, benign cystic pathology or both. Underlying neoplasia cannot be completely ruled-out but is lower on the differential list. This presentation is most consistent with benign prostatic hyperplasia with possible active prostatitis. Neutering or off-label Finasteride (Propecia) (0.1-0.5 mg/kg Sid) treatment is indicated +/- FNA or prostatic wash cytology and culture. This is a moderate change. A (1.0 cm) cyst was noted in the prostate.

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 and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 7.15 cm. The left kidney measured 7.15 cm.

**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 2.47 cm x 0.65 cm at the cranial pole and 0.76 cm at the caudal pole.

**Spleen**

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.

**Liver**

The **liver** was swollen with hypoechoic nodular changes in the caudate process and the left medial liver lobes, most likely benign hepatopathy with nodular hyperplasia. However, FNA is warranted to



**PATIENT**

ensure more significant disease is not present. The gallbladder and common bile duct were unremarkable.

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**Gastrointestinal**

**SPECIES**

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.

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**Pancreas**

English Setter

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**

Male

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

- BPH prostate- neutering should prove effective
- Nodular hyperplasia/vacuolar hepatopathy liver pattern
- Age-related renal changes with occasional cortical cysts noted

12 Years 8 Months

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

Given the weight loss, FNA of the liver is indicated. Nonspecific minor degenerative renal changes.

50 Pounds

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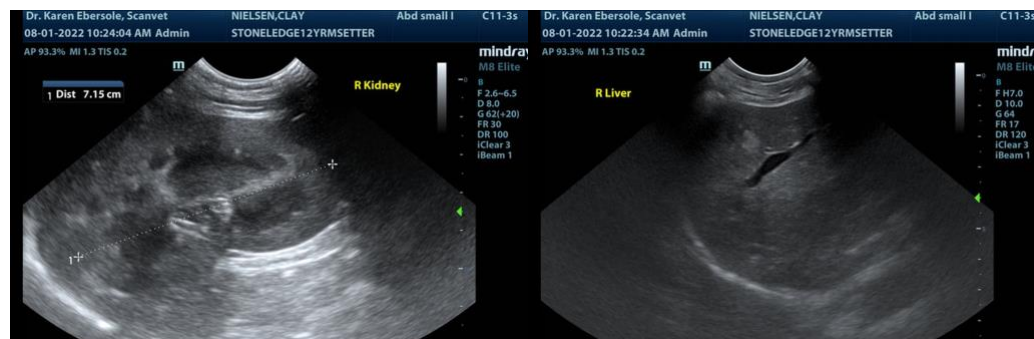


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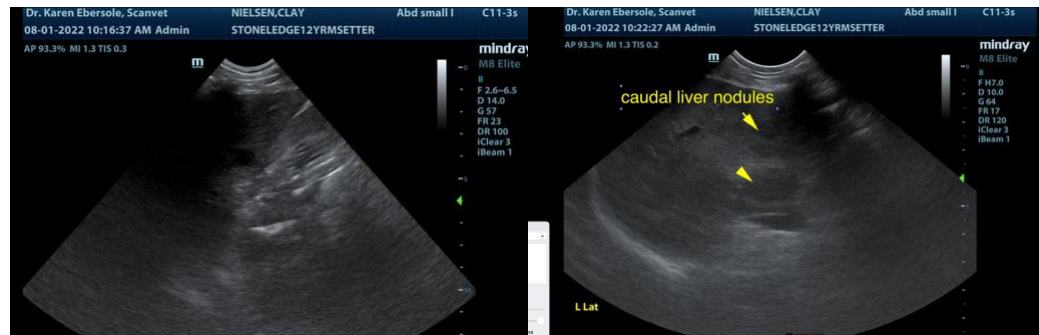
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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