

## PATIENT

Mugsy Keogh

## SPECIES

Canine

## BREED

Mixed Breed

## SEX

Spayed Female

## AGE

12 Years

## WEIGHT

23.6 kg

## INTERPRETED BY

Eric Lindquist, DMV,  
DABVP(CFM), Cert.  
IVUSS

## IMAGING PERFORMED BY

Dr. Melinda Persson

## HOSPITAL NAME

At Home Veterinary

## REFERRING VET

Dr. Melinda Persson

## INVOICE

13441

## DATE

01/28/26

## PRESENTING CLINICAL SIGNS

- Subcutaneous hemangiosarcoma incompletely incised from left thorax on December 10, 2025
- Mitotic index > 20
- Metastasis check
- Doing well

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The **urinary bladder** presented a relatively uniform thickening of the cranioventral and craniodorsal mucosae with micropolypoid mucosal changes without involvement of the submucosae. The urine presented some echogenicity consistent with suspended debris. No evidence of urethral pathology was present. This presentation is most consistent with chronic cystitis. Technically transitional cell carcinoma is unlikely yet cannot be ruled out without histopathological review. Cystocentesis and urine culture +/- pathological review of urine cytology would be warranted. No overt calculi were present at this time. A large amount of sand and calculi accumulation were noted with the grouping of calculi measuring up to 2.0 cm. The bladder wall thickening continued into the pelvic urethra.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some minor 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 was present in the left kidney measuring 0.40 cm. The left kidney measured 5.7 cm in length. The right kidney measured 6.96 cm in length.

### Adrenal Glands

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 0.50 cm width at the caudal pole and 0.58 cm width at the cranial pole.

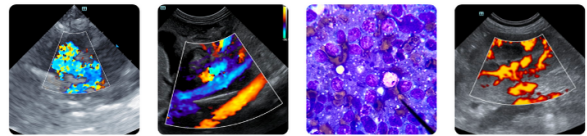
The **right adrenal gland** presented with a slightly hyperechoic nodule at the cranial pole. The right adrenal gland measured 0.85 cm width at the cranial pole and 0.47 cm width at the caudal pole.

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



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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.

## Gastrointestinal

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.

## Pancreas

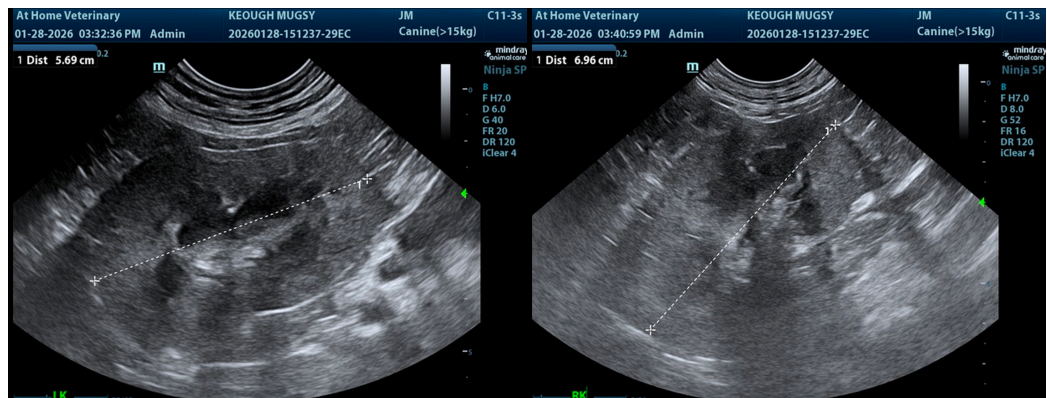
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

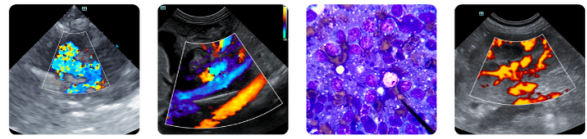
## ULTRASONOGRAPHIC FINDINGS

- Age-related renal changes.
- Right adrenal nodule.
- Chronic cystitis pattern.
- Age-related hepatic changes.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

BRAF testing and cytospin of free catch urine sample are indicated to assess for carcinoma though not overtly suspected. Potential for pyelonephritis depending upon urinalysis results. Full urinary work up, cystotomy, chronic UTI and sand/calculus analysis and bladder wall biopsy are all indicated.





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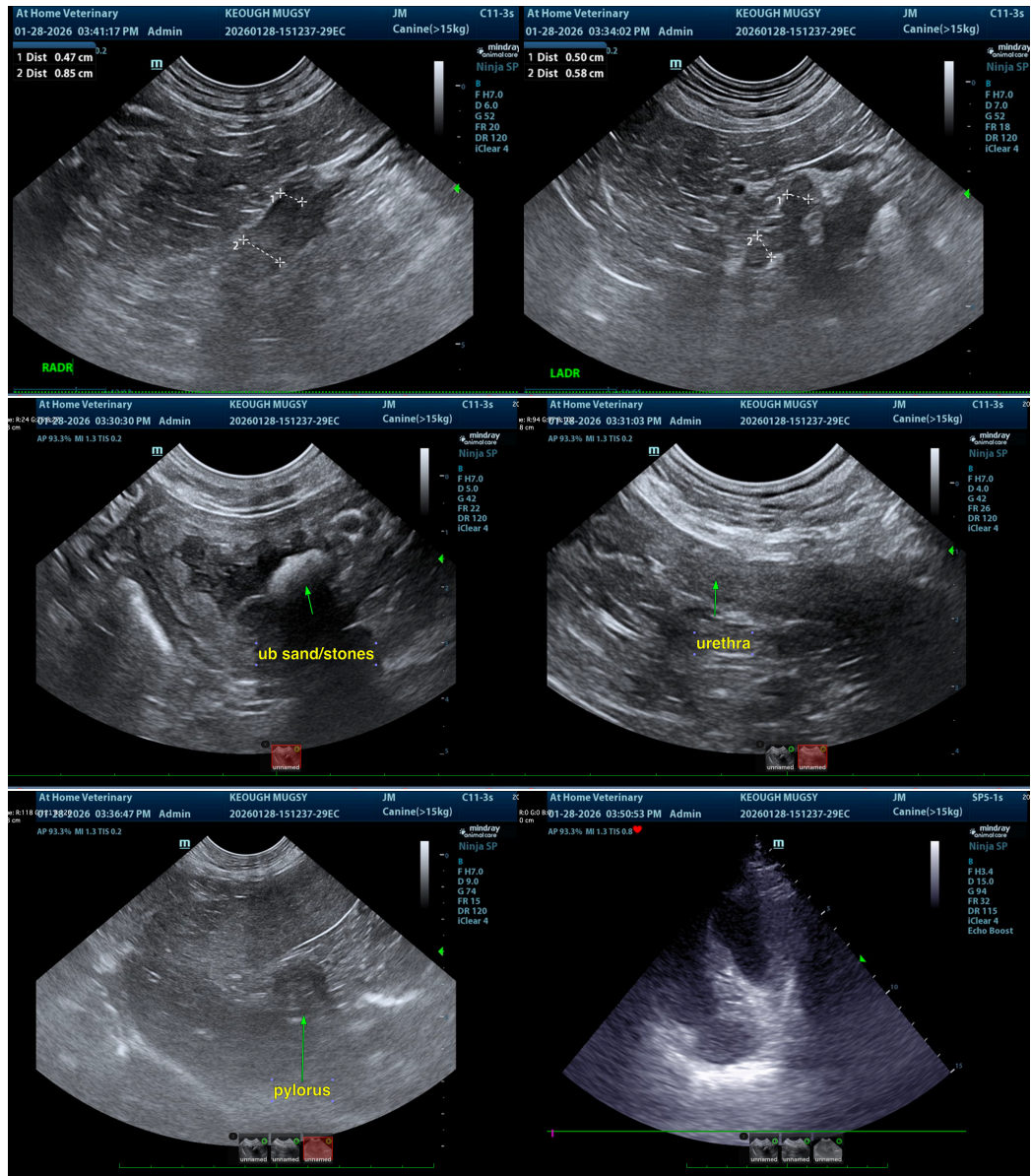
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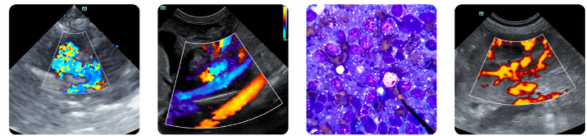
The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP(CFM), Cert. IVUSS,

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