

**DATE**

4/12/22

**PRESENTING CLINICAL SIGNS**

Few months ago went in for skin mass removal. Liver enzymes were elevated, had US and showed liver was subjectively small, owner elected not to pursue FNA. On denamarin and abs, LE improved, had mass removal and doing well. Last night began to vomit, had blood clots and moderately bloody vomit multiple times. Free abdominal fluid-- did not tap b/c coags elevated, low platelets (80,000) and low albumin. Chest films wnl. LE-- slight elevation in ALT /ALKP, Low albumin and globulins

bili 1.2, hematemesis.

Current Medications: None listed.

Lab Results: See attached.

Radiographs: no obvious metastatic lesions. Ultrasound Scan - IH  
no pericardial or pleural fluid small to moderate free abdominal fluid

Date of Previous IntraPet Ultrasound: 12/21/21. See attached.

Sedation: Not required to complete full diagnostic ultrasound.

Stat Report: Not requested.

Imaging Performed By: Rachel Brillhart, RDMS.

**PATIENT**

Daisy Feathers

**SPECIES**

Canine

**BREED**

Labrador Retriever

**SEX**

Intact female

**AGE**

1/14/13

**WEIGHT**

69.5 lbs

**INTERPRETED BY**Eric Lindquist, DMV  
DABVP, Cert. IVUSS**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. A large amount of mineralization and debris was noted. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The left ovary was cystic and measured 2.32 x 1.87 cm. The right ovary was unremarkable with minor cystic changes measuring 3.16 x 1.86 cm. The uterus was uniform and measured 1.35 cm.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some 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 this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 7.2 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 right adrenal gland measured 2.32 x 1.01 cm at the caudal pole and 0.79 cm at the cranial pole. The left adrenal gland measured 2.39 x 0.98 cm at the caudal pole and 0.9 cm at the cranial pole.

**HOSPITAL NAME**Animal Emergency  
Hospital**REFERRING VET**

Dr. King

**Spleen**

The **spleen** was largely smooth with subtle heterogeneous parenchymal changes while maintaining normal echogenic relationship to the liver and kidney. These changes are consistent with normal age-related alteration. The capsule was smooth without noticeable impingement from within the spleen or from pathology in the adjacent abdomen. The splenic vasculature demonstrated normal volume without signs of congestion or significant contraction. No evidence of active acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

**INVOICE**

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**Liver**

The **liver** was riddled with multiple, nodular changes and disrupted architecture. This is similar to the prior sonogram. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and

common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

### **Gastrointestinal**

Variable upper **gastrointestinal** thickening was noted and measured up to 0.8 cm. There was loss of structural detail noted.

### **Pancreas**

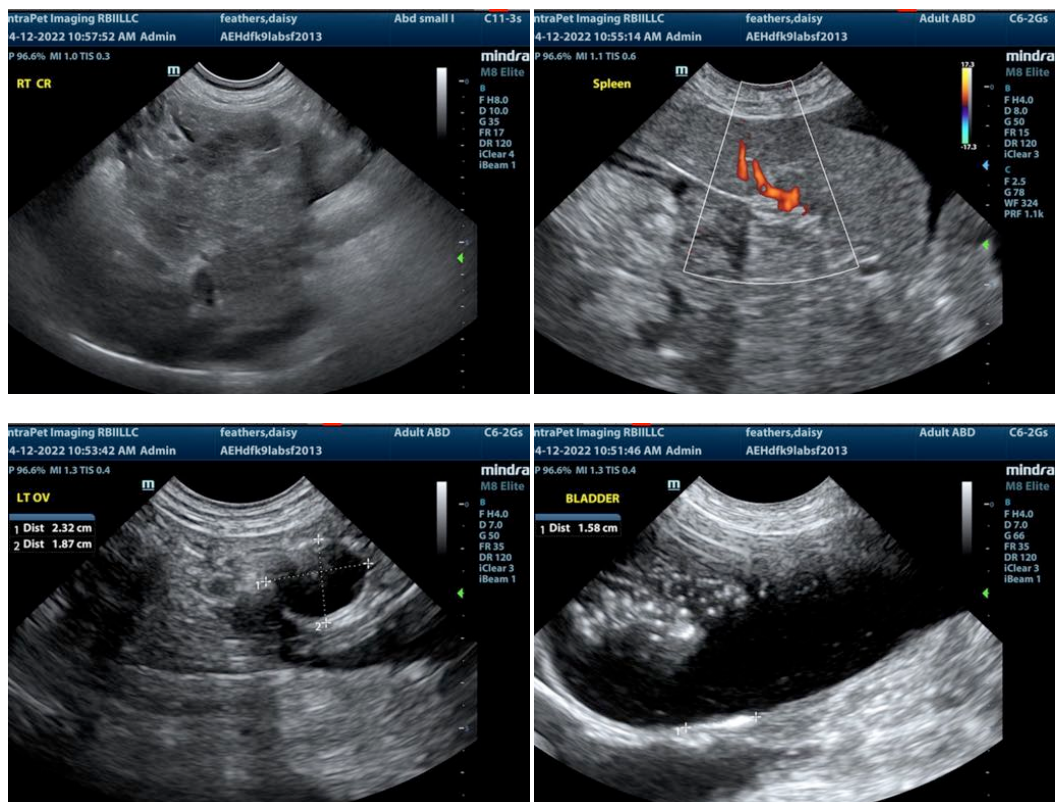
The right cranial abdomen revealed a mixed, hypoechoic, undifferentiated 6.8 cm mass. The mass appears to be deriving from the **pancreas**.

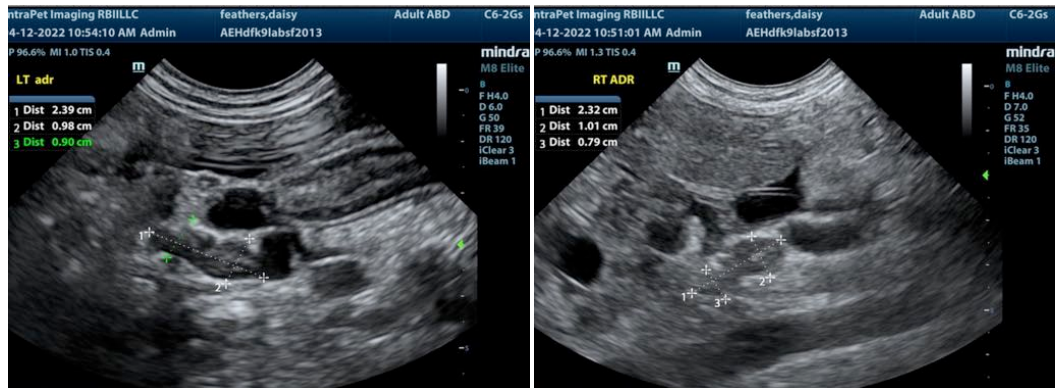
### **ULTRASONOGRAPHIC FINDINGS**

Cranial abdominal neoplasia involving the pancreas and likely liver.  
Secondary ascites, likely paraneoplastic effusion or portal hypertension.  
Cystic ovaries and bladder sand and debris.

### **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

End stage liver disease, likely cirrhosis with overlying neoplasia that is likely deriving from the pancreas +/- stomach. The prognosis is poor. Humane euthanasia should be considered in this patient if quality of life cannot be maintained.





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.

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