



**PATIENT PRESENTING CLINICAL SIGNS**

Emma Heiligenstaein

Pet presented on January 25th with history of 5 days decreased appetite. will eat some treats and some human food. Some coughing and hacking was seen and sometimes vomits bile. sporadic diarrhea in house. history of arthritis, mild otitis and some lipoma like masses that has been present for a few years. FNA of masses by another vet showed benign. pet was treated with cerenia , propectalin , doxy and a carprofen injection. Pet presented yesterday still not doing well , not eating and laying down most of the time. Lost 1.5 lbs more. at that time radiographs, and bw performed  
Abnormal PE/Chem/CBC/UA Results: January 25th - radiographs showed mild bronchial patter on lung fields, normal looking heart and no masses. BW showed wbc- 24k , elevated neutrophils and monocytes,. Chemistry showed ALT- 126,ast- 110, alp- 834, GGT - 38, CK- 356. Normal T4 and normal fecal analysis with giardia. PS showed multiple lipoma like mases, one mass on left side of face that just showed up, all lymph nodes were wnl, mild distention of cranial abdomen with no pain. February 7th - presented for not improving. Lost 1.5 lbs more. started on IV fluids and cerenia injectable. February 8th - abdominal ultrasound performed and conitnued IV fluids. Wanted to repeat BW but owner priotizing at this time with budget.

**SPECIES**

Canine

**BREED**

Dalmatian

**SEX**

Spayed Female

**AGE**

13 years

**WEIGHT**

43.6 lbs

**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 was noted. Ureteral papillae were normal.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

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. Trace pyelectasia was noted in both kidneys. The left kidney measured 6.14 cm. The right kidney measured 5.81 cm.

**IMAGING PERFORMED BY**

Dr. A

**Adrenal Glands**

**HOSPITAL NAME**

Surfside PH

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 2.01 x 0.41 cm at the cranial pole and 0.52 cm at the caudal pole. The left adrenal gland measured 2.0 x 0.6 cm.

**REFERRING VET**

Dr. Abadia

**Spleen**

**INVOICE**

95915

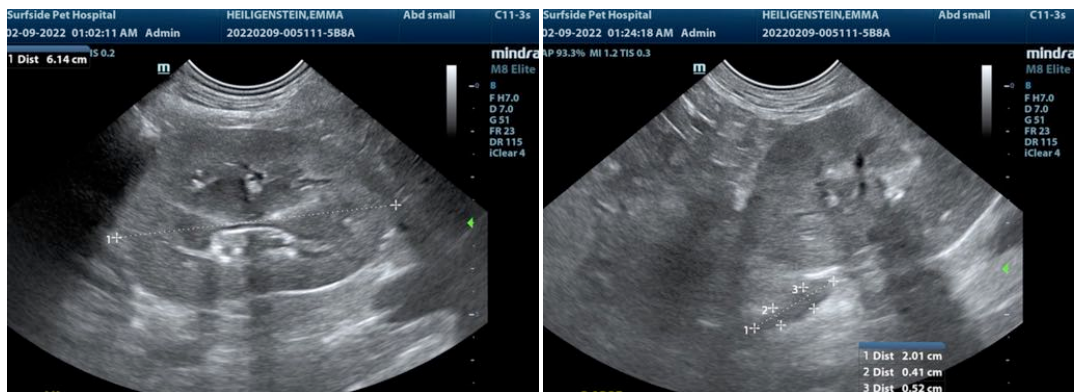
The **spleen** was deviated caudally owing to the hepatic pathology, yet presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

**DATE**

2/8/22



<b>PATIENT</b>	<b>Liver</b>
Emma Heiligenstaein	The <b>liver</b> in this patient presented multi-focal, hypoechoic nodular changes with disrupted architecture. There was disruption of the normal curvilinear patterns within the hepatic parenchyma was significant throughout the liver. The right and left liver were affected with mass effects upon the gallbladder. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. Pleural effusion was noted through the diaphragm.
<b>SPECIES</b>	
Canine	
<b>BREED</b>	<b>Gastrointestinal</b>
Dalmatian	Examination of the <b>gastrointestinal tract</b> 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.
<b>SEX</b>	
Spayed Female	
<b>AGE</b>	<b>Pancreas</b>
13 years	The right <b>pancreatic</b> limb presented heterogenous parenchymal changes, possibly extending from the hepatic pathology.
<b>WEIGHT</b>	<b>ULTRASONOGRAPHIC FINDINGS</b>
43.6 lbs	Diffuse hepatic neoplasia. Round cell neoplasia or carcinoma is suspected.
<b>INTERPRETED BY</b>	Concurrent pleural effusion. Suspect thoracic spread.
Eric Lindquist, DMV DABVP, Cert. IVUSS	<b>INTERPRETATION OF THE FINDINGS &amp; FURTHER RECOMMENDATIONS</b>
<b>IMAGING PERFORMED BY</b>	The prognosis is poor depending on cytology results.
Dr. A	
<b>HOSPITAL NAME</b>	
Surfside PH	
<b>REFERRING VET</b>	
Dr. Abadia	
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Canine

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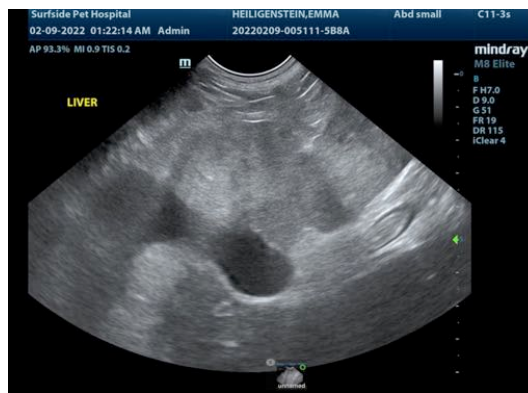
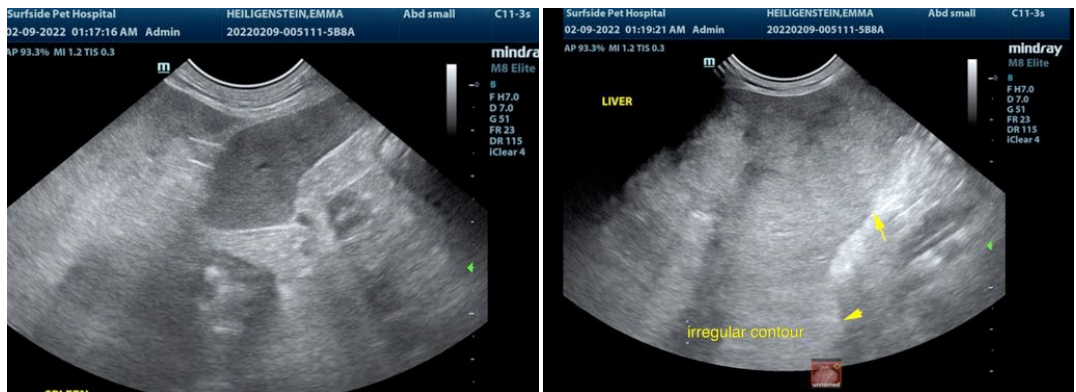
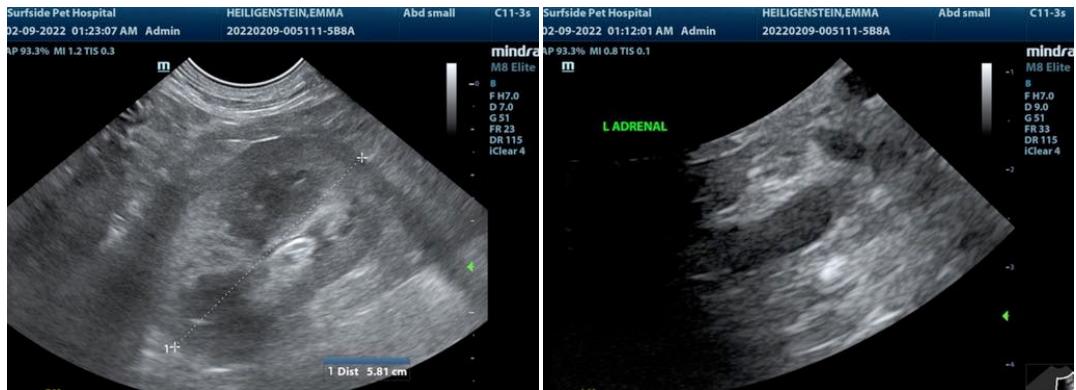
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com  
info@SonoPath.com