



PATIENT

Penny Swanson

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Spayed Female

AGE

9 Years

WEIGHT

8.6

INTERPRETED BY

Eric Lindquist, DMV,
DABVP (Canine &
Feline), Cert. IVUSS

IMAGING PERFORMED BY

Carissa Hayden

HOSPITAL NAME

Elizabeth Animal
Hospital

REFERRING VET

Dr. Jennifer Redus
DVM

INVOICE

12520

DATE

12/01/25

PRESENTING CLINICAL SIGNS

She didn't eat yesterday at all. -She did throw up a few times after everyone went to bed last night. - She was fed this morning, and Sandra did put some chicken broth on the food, and she still didn't want it. -She will go drink water and she will vomit that back up. -Unsure if she ate something. They take her out on a leash.

PE: Capillary Refill Time: prolonged Hydration: Estimated 10% dehydrated with skin tenting Abdomen: Standing in hunched position with apparent abdominal pain; no additional pain noted with abdominal palpation Gastrointestinal System: Vomited during exam; vomitus was white and foamy CBC: RBC 8.91 M/ μ L, Hematocrit 64.6%, Hemoglobin 22.6g/dL, WBC 18.80K/ μ L, Neutrophils 15.43 K/ μ L, Lymphocytes 0.71 K/ μ L, Monocytes 2.65 K/ μ L, Eosinophils 0.01K/ μ L, PDW 23.5fL, MPV 15.6fL CHEM: BUN 2mg/dL, Phosphorus 7.3mg/dL, ALP 292U/L, Bilirubin - Total 6.1mg/dL, Amylase 1,786 U/L, Lipase 4,149U/L ALT was to high.

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 **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 4.39 cm in length. The left kidney measured 4.11 cm in length.

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 1.09 cm x 0.53 cm width at the caudal pole and 0.38 cm width at the cranial pole. The right adrenal gland measured 1.33 cm x 0.58 cm width at the caudal pole and 0.61 cm width at the cranial 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. The spleen was folded upon itself cranially.

Liver

The **liver** was structurally unremarkable yet subnormal in size. Fairly uniform parenchyma with minor remodeling. The gallbladder and common bile duct were unremarkable.



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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 right base of the **pancreas** was heterogenous with mixed hypoechoic parenchymal changes. The changes were subtle.

ULTRASONOGRAPHIC FINDINGS

- Folded spleen.
- Possible low-grade pancreatitis.
- Microhepatica without evidence of portosystemic shunting.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Bile acid profile is warranted. Chronic inflammatory hepatopathy leptospirosis titers is warranted. Other cause of acute insult is indicated. Eventual liver biopsy would be ideal, however, is excessively small and may be difficult to sample from ultrasound guided procedure. Laparoscopy biopsy may be necessary. Prognosis is guarded. No evidence of neoplasia.

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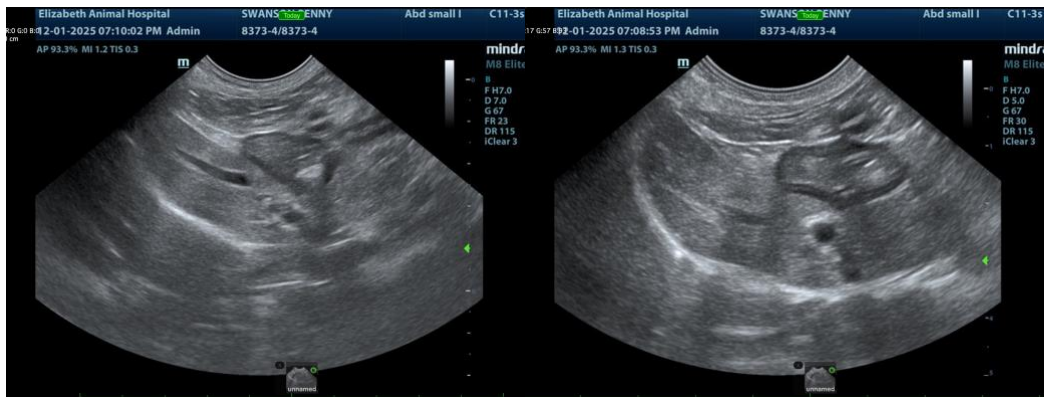
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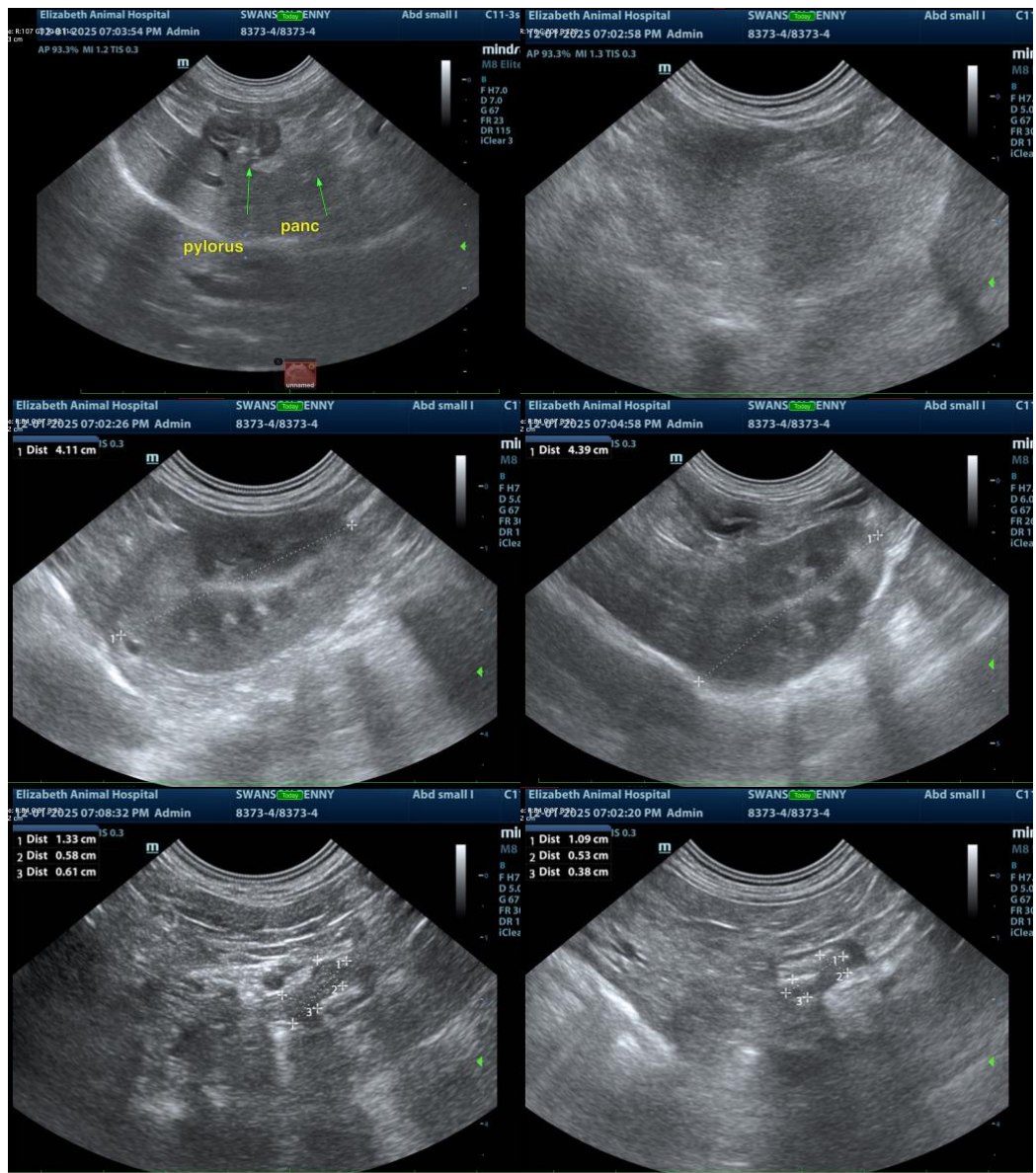
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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