



**PATIENT**

Apple Wanner

**PRESENTING CLINICAL SIGNS**

Painful abdomen, elevated ALT, decreased ALT

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Whippet

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.

**SEX**

Spayed Female

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 left kidney measured 5.9 cm. The right kidney measured 6.2 cm.

**AGE**

12 years

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**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 2.0 x 1.08 cm at the cranial pole and 0.5 cm at the caudal pole. The left adrenal gland measured 2.0 x 0.5 cm.

**IMAGING PERFORMED BY**

Eric Lindquist, DMV  
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**Spleen**

The **spleen** in this patient revealed multi-focal, hyperechoic nodules with a 2.24 cm expansive, hypoechoic mass that was deriving from the mid caudal body. There was no evidence of rupture and no evidence of cavitation.

**HOSPITAL NAME**

Animal Hospital of  
Roxbury

**REFERRING VET**

Dr. Elia

**Liver**

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. 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.

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**Gastrointestinal**

The **gastrointestinal tract** revealed diffuse, hyperechoic fogging or overlay throughout the small intestine as well as areas of mucosal striations and speckling. This striation + fogging effect appeared to



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exclusively affect the mucosal layer with the submucosa, muscularis and serosa left in-act. The stomach was empty and there was no evidence of foreign body. Reactive mesentery was noted primarily in the region of the jejunum with focal areas of slight free fluid.

**SPECIES**

Canine

**Pancreas**

The pancreas was mildly heterogenous, yet it does not appear to be the clinical protagonist in this patient.

**BREED**

Whippet

**Heart**

**SEX**

Rapid view of the heart revealed no evidence of pathology.

Spayed Female

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

12 years

Subacute on chronic inflammatory bowel and lymphangectasia pattern in the intestine.

Splenic mass and nodular changes.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I recommend three view chest radiographs, splenectomy and intestinal biopsies for further definition.

**IMAGING PERFORMED BY**

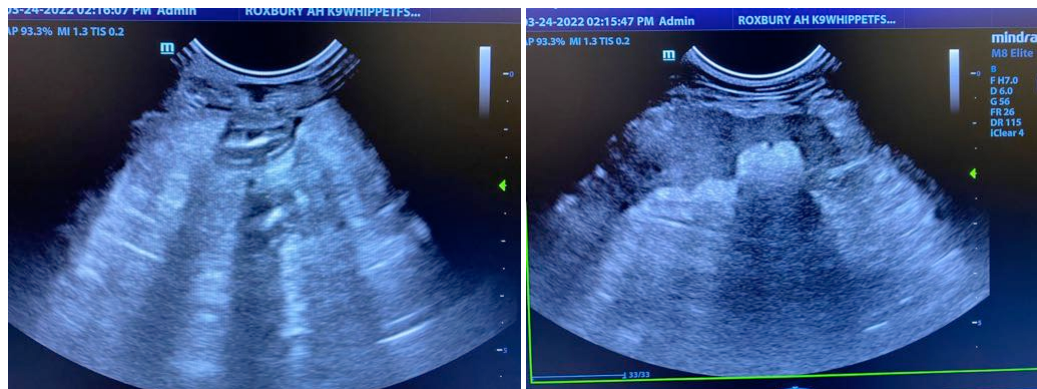
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**BREED**

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**SEX**

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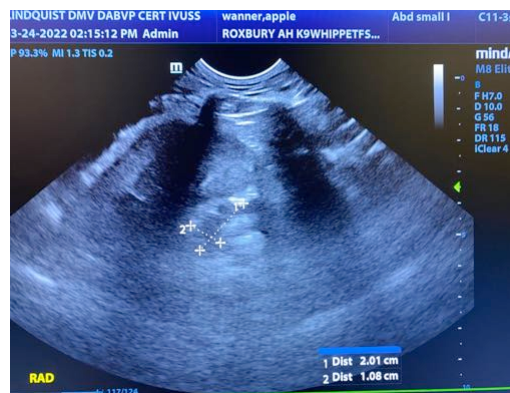
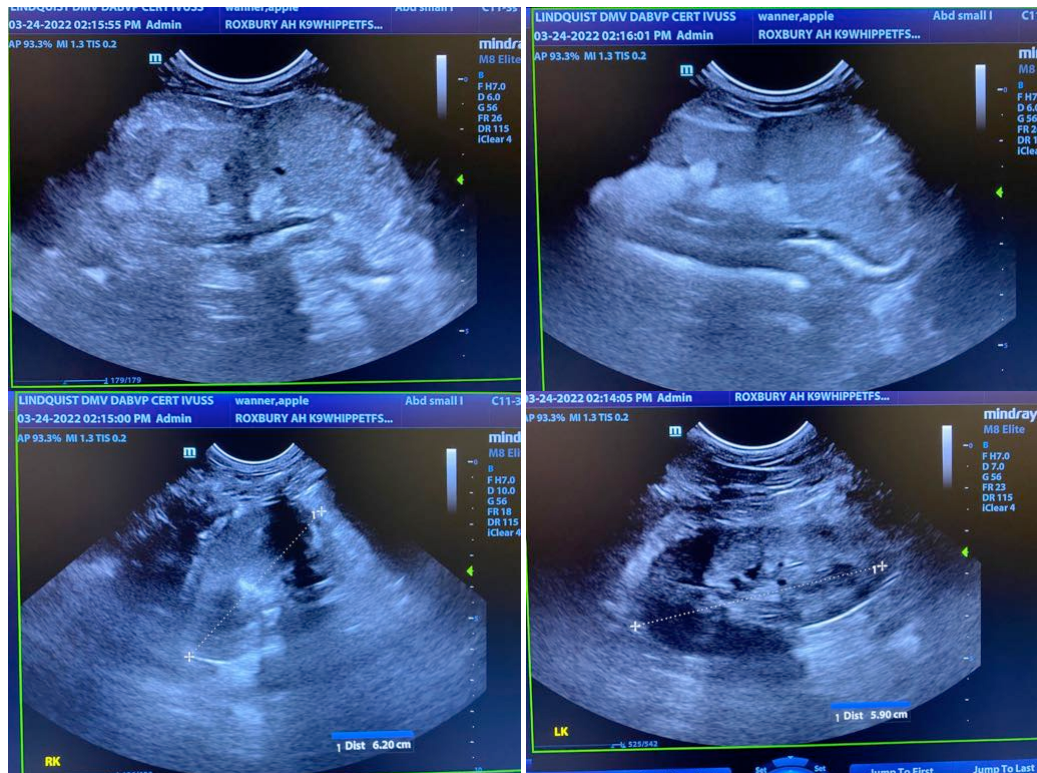
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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