



**PATIENT**

Dillon Warming

**SPECIES**

Canine

**BREED**

Bulldog

**SEX**

Neutered Male (recent)

**AGE**

2 Years

**WEIGHT**

47 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Marti Williams

**HOSPITAL NAME**

Limestone Vet Hospital

**REFERRING VET**

Dr. Marti Williams

**INVOICE**

35144

**DATE**

1/27/22

**PRESENTING CLINICAL SIGNS**

Intermittent episodes of multi-day vomiting or regurgitation over the past 15 months, mostly bile, occ undigested food several hours after eating. Can usually hold food down at other times during the day during the episodes. Most recent episode started a few days after neutering on 12/2/0/21. Liver small on rads. DDx: GERD, Hiatal hernia, Gastritis, Food Allergy etc. Not lethargic during these episodes. Abnormal PE/Chem/CBC/UA Results: Labwork NSF other than mild bilirubinuria (2+ with USG 1.042) Resting cortisol pending.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**\*\*85 still images submitted.**

**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 pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

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 5.4 cm. The left kidney measured 5.5 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 0.56 cm. The left adrenal gland measured 0.50 cm.

**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 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.

**Gastrointestinal**

A minor amount of gas-filled **gastric** lumen noted with increased submucosal echogenicity and thickness. The small intestine and colon were unremarkable. Some mucosal remodeling noted.



**PATIENT**

**Pancreas**

Dillon Warming

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.

**SPECIES**

Canine

**ULTRASONOGRAPHIC FINDINGS**

- Structurally unremarkable abdomen with mild chronic gastritis pattern

**BREED**

Bulldog

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

A clinical trial of the following may prove effective.

**SEX**

**Helicobacter/Gastritis protocol**

Neutered Male (recent)

A clinical trial of **Zithromax** (Dogs: 5-10 mg/kg p.o. q24h. May increase dosing interval to q48h after 3-5 days of treatment), **Metronidazole** (10-20 mg/kg p.o. b.i.d.), **Pepcid** (0.5-1 mg/kg s.i.d.) and **Sucralfate** (0.5-2 g/dog PO) or **Omeprazole** (1 mg/kg p.o. s.i.d.) over the next 3 weeks along with a **novel-protein or hydrolyzed diet** with slurry feeding b.i.d./t.i.d. over the next 2-4 days and then increase to canned diet bid. Dry food should be avoided over the next 4 weeks. A recheck sonogram to assess GI improvement or progression would be ideal in 4 weeks.

**AGE**

2 Years

Please send video as opposed to still images for complete evaluation. No evidence of hiatal hernia.

**WEIGHT**

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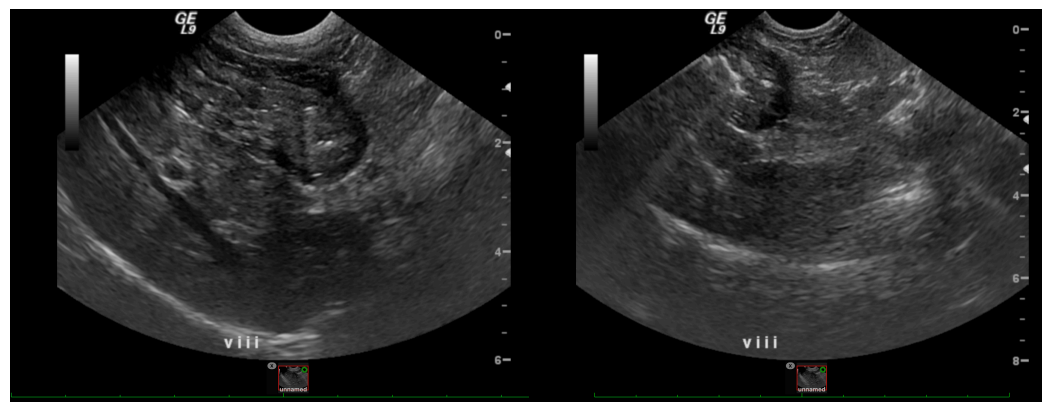
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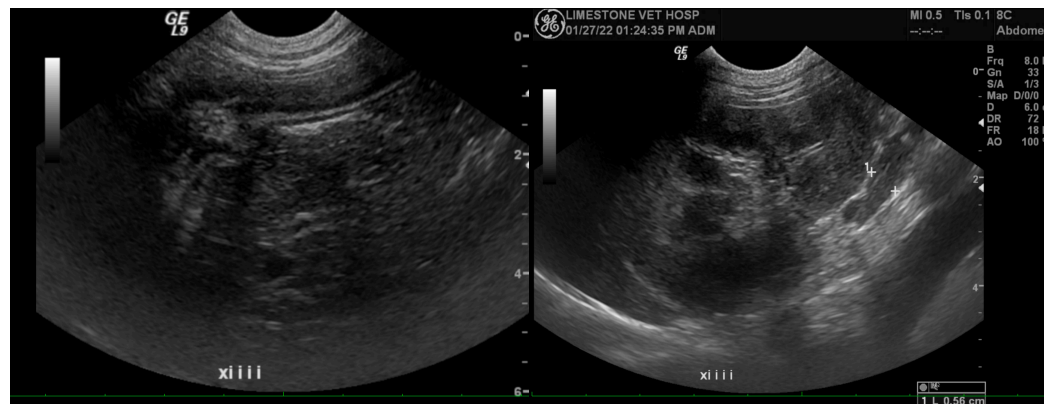
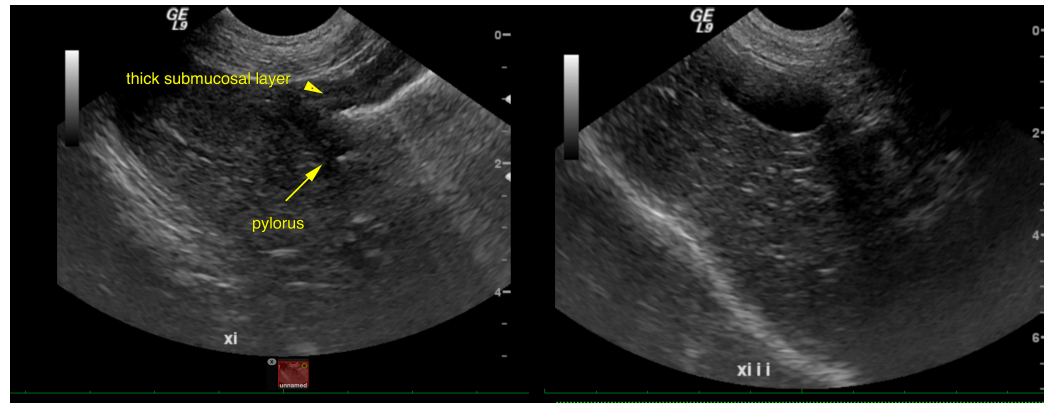
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com

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