



PATIENT **PRESENTING CLINICAL SIGNS**

Luna Lucero
SPECIES Canine
 History: Had an emergency c-section due to dystocia 2 weeks ago (no surviving puppies) Acute onset vomiting and hemorrhagic diarrhea (vomiting started 2 days ago, diarrhea started yesterday) Lethargy x 1 week Still eating and drinking Treated for post-op mastitis with Clavamox and Convenia
 Abnormal PE/Chem/CBC/UA Results: Afebrile CBC - mild reticulocytosis (138) Leukocytosis due to Neutrophilia (19), Eosinophilia CHEM - elevated globulins (6.1) Elevated ALT - mild, 281 Rest of CHEM normal (including ALP, amylase/lipase, electrolytes)

BREED **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

French Bulldog

Urinary System

SEX Female
 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.

AGE 1 year
 The uterus was mildly thickened and measured 1.0 cm. The left uterine horn revealed echogenic mucosal hypertrophy and minor luminal fluid accumulation as did the right horn.

WEIGHT 18.5 lbs
 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 3.8 cm. The right kidney measured 4.42 cm.

INTERPRETED BY **Adrenal Glands**

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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.

IMAGING PERFORMED BY

Dr. Gunther

Spleen

HOSPITAL NAME

New Frontier Animal
Medical Center

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 was noted.

REFERRING VET

Dr. Gunther

Liver

INVOICE

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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

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lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

SPECIES

Canine

Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. A minor amount of fluid filled gastric lumen was noted. This is consistent with gastritis. The small intestine and colon were unremarkable; however, some spastic bowel was present.

BREED

French Bulldog

Pancreas

SEX

Female

The **pancreas** was hypoechoic and mildly irregular without evidence of inflammation.

AGE

1 year

ULTRASONOGRAPHIC FINDINGS

Minor uterine hypertrophy and slight uterine fluid accumulation.

Underlying low-grade metritis with concurrent gastritis is likely.

WEIGHT

18.5 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

ALT elevation is likely owing to reactive hepatopathy. Medical management for metritis and GI protectants is indicated. IV fluid support is likely in this patient's best interest. A recheck sonogram is recommended in a week to ensure that the uterine presentation and gastritis presentation is resolving. Otherwise, ovariohysterectomy may be necessary. If the patient is worsening an earlier ultrasound recheck may be necessary.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

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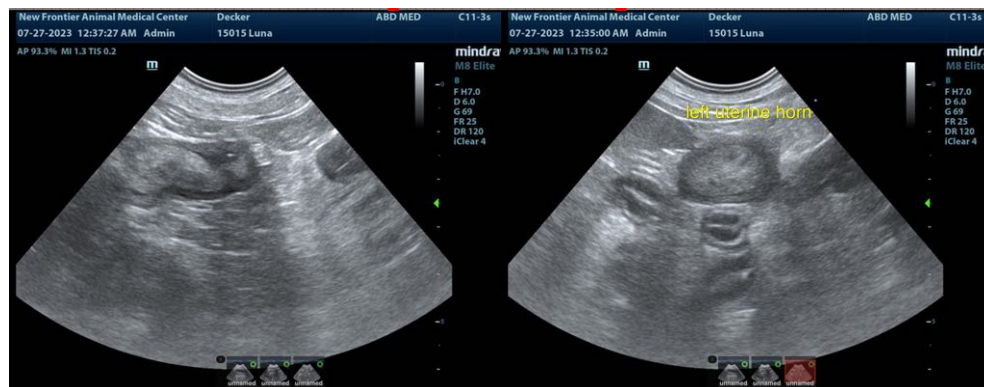
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SPECIES

Canine

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French Bulldog

SEX

Female

AGE

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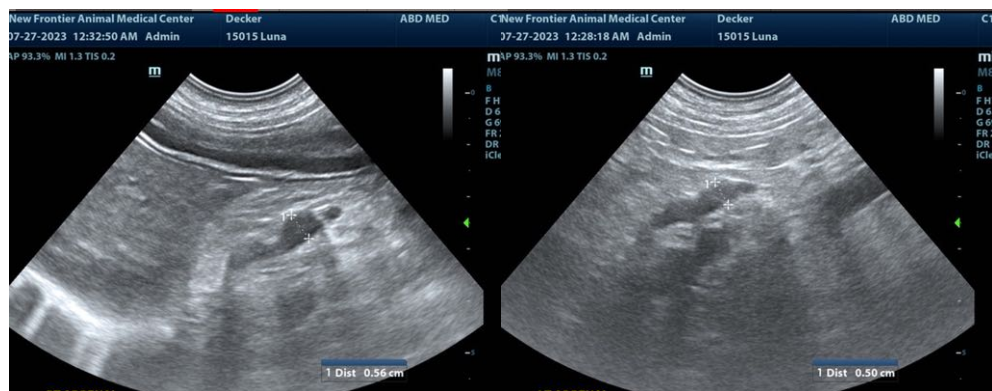
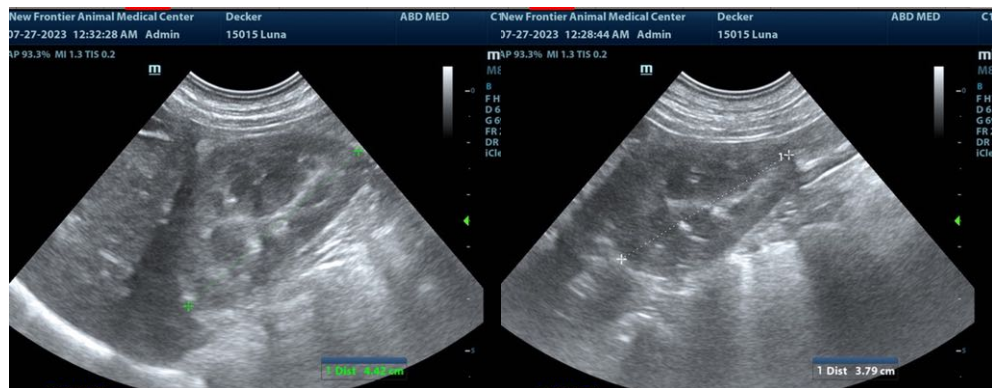
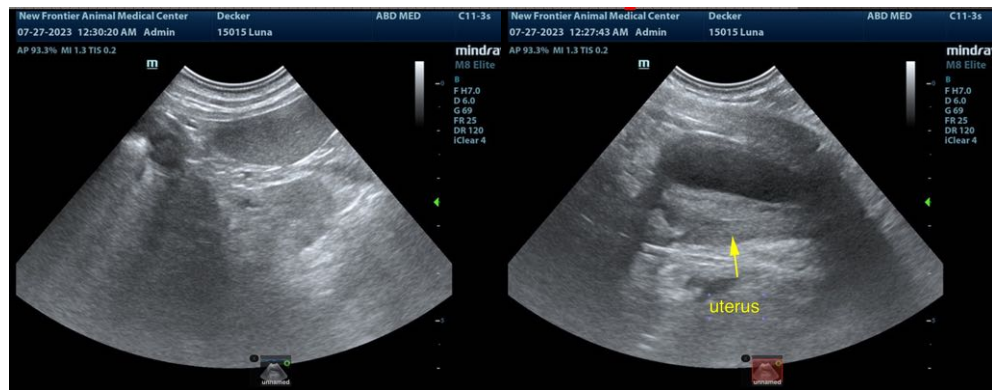
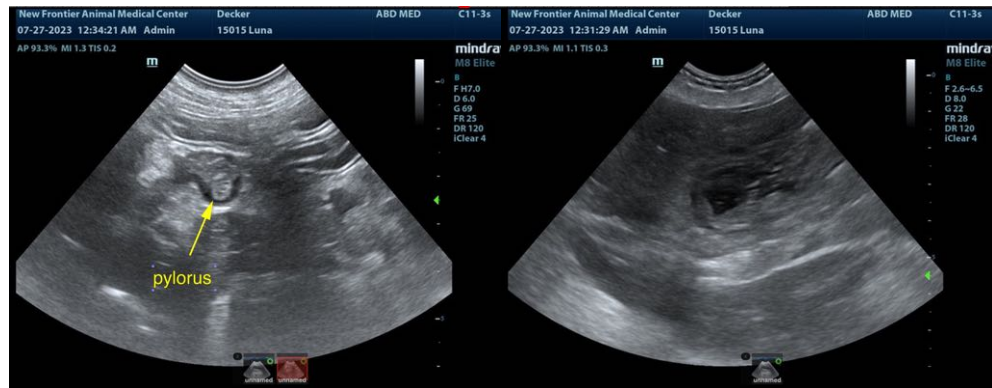
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

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.

BREED

French Bulldog

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com

SEX

Female

AGE

1 year

WEIGHT

18.5 lbs

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