



PATIENT

Brutus Palmer

SPECIES

Canine

BREED

English Bulldog

SEX

Neutered Male

AGE

8 Years

WEIGHT

57 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Griffin

HOSPITAL NAME

Northside Vet Clinic

REFERRING VET

Dr. Griffin

INVOICE

43852

DATE

1/2/23

PRESENTING CLINICAL SIGNS

Patient presented for coughing and unable to lay down and sleep, patient standing to sleep on 12/31. Prescribed Lasix, vetmedin and enalapril until we could do workup today. Patient is breathing much better not coughing but radiographs have not improved

Abnormal PE/Chem/CBC/UA Results: PE: Pendulous abdomen, more swollen on the right, no murmur noted on exam 4DX: WNL T4/SDMA: WNL CHEM: ALKP252 CBC: RBC 5.6, HCT:35%, HGB12.6, RETIC 132.6 Rads: Trachea deviated dorsally on lateral and to the right on vd, increased soft tissue opacity near heart base/cranial mediastinum BP: 146/64

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 pelvic urethra was imaged 1.0 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 left kidney measured 6.0 cm. The right kidney measured 6.0 cm.

Adrenal Glands

The **left adrenal gland** was 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 0.60 cm.

The region of the **right adrenal gland** was imaged, no evident pathology.

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** was mildly enlarged and revealed dilated hepatic veins and vena cava. Mild coarse architecture noted. Primary hepatic vein dilated at 0.85 cm. The gallbladder and common bile duct were unremarkable.

Gastrointestinal

There was some residual chyme and gas was noted in the **stomach**, yet not pathological. This is consistent with end post prandial presentation. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. 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.



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Pancreas

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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.

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Heart

Rapid view of the heart revealed no significant volume overload of the left atrium. Contractility appeared adequate yet arrhythmogenic disease is present. No obvious masses, yet further images would be necessary to assess. Subjectively, the right heart appeared enlarged.

BREED

English Bulldog

ULTRASONOGRAPHIC FINDINGS

SEX

- Arrhythmogenic heart and subjectively enlarged right heart
- Passive congestion liver pattern

Neutered Male

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

8 Years

Further imaging of the right heart indicated specifically with tricuspid insufficiency velocities/spectral and color flow doppler to assess for pulmonary hypertension. EKG indicated. The abdomen does not present any primary disease. The triple therapy is likely rendering the heart in a better sonographic state regarding volumes than on initial presentation. However, right heart doppler is essential in this patient for definitive diagnosis. If right-sided heart failure is found, then Sildenafil could be added to the current protocol at 1 mg/kg BID. However, EKG indicated.

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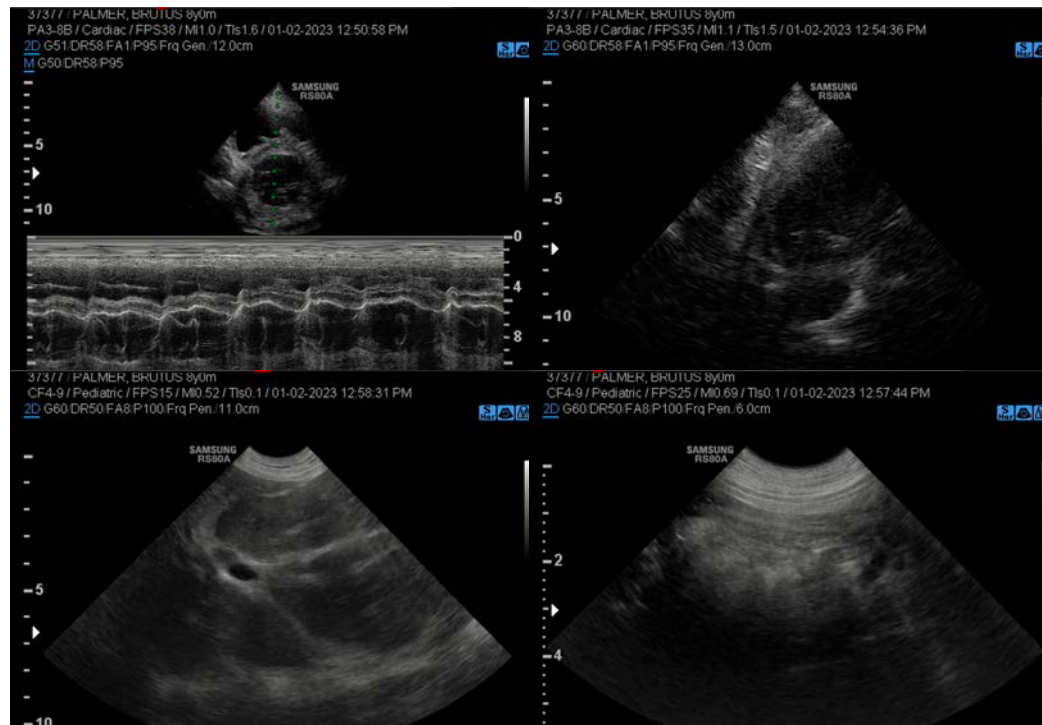
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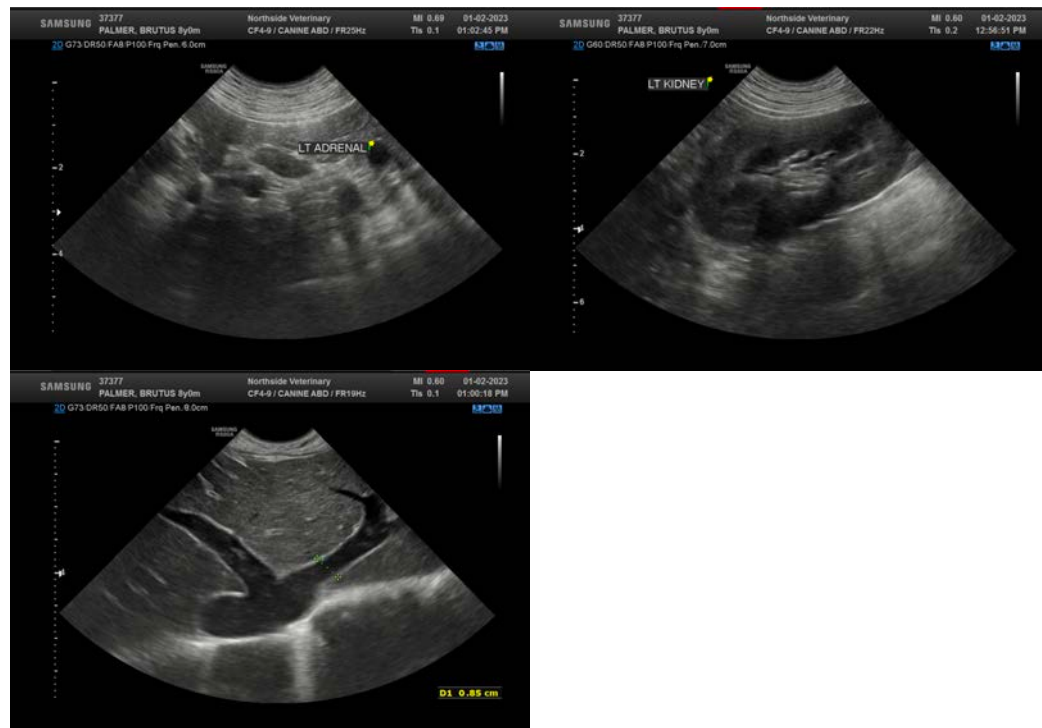
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

info@SonoPath.com