



PATIENT PRESENTING CLINICAL SIGNS

Murphy Gagne History: Episodic hematuria and stranguria. History of urethral prolapse that was surgically repaired (excess debrided). Neutered 1 year ago.

SPECIES Abnormal PE/Chem/CBC/UA Results: RADS: no uroliths visible. UA: intermittent severe hematuria, no crystals. UA via cysto today: NSF on sediment. Sending for C&S.

Canine

BREED

Bulldog

SEX

Neutered male

AGE

1 year

WEIGHT

51 lbs

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. A large amount of sand and apical, ventral polypoid bladder thickening with irregular contour. The sand accumulation measured approximately 2.0 cm and was non-obstructive at the time of the sonogram. The cystourethral junction and urethra appeared free of evident pathology other minor sand granules. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The prostate was uniform and measured 1.27 cm.

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 6.05 cm. The left kidney measured 6.02 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ebersole

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 2.26 cm at the cranial pole and 0.91 cm at the caudal pole. The left adrenal gland measured 0.55 cm at the caudal pole and 0.53 cm 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 was noted.

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Bryant

Liver

INVOICE

75952

DATE

7/6/23

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 vena cava measured 0.77 cm. Intrahepatic vascular volume appeared normal. The portal vein revealed normal branching and normal in size at 0.84 cm. The portal vein to vena cava ratio was 1:1. The gallbladder presented acceptably thin walls with primarily



PATIENT

Murphy Gagne

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.

SPECIES

Canine

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.

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Pancreas

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.

AGE

1 year

ULTRASONOGRAPHIC FINDINGS

WEIGHT

51 lbs

Normal liver.

Bladder sand, chronic cystitis pattern.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Cystotomy, sand analysis and culture are indicated. There was no evidence of portosystemic shunting, yet minor microhepatica was present. Bile acid profile is warranted. If the bile acids are elevated then liver biopsy is indicated.

IMAGING PERFORMED BY

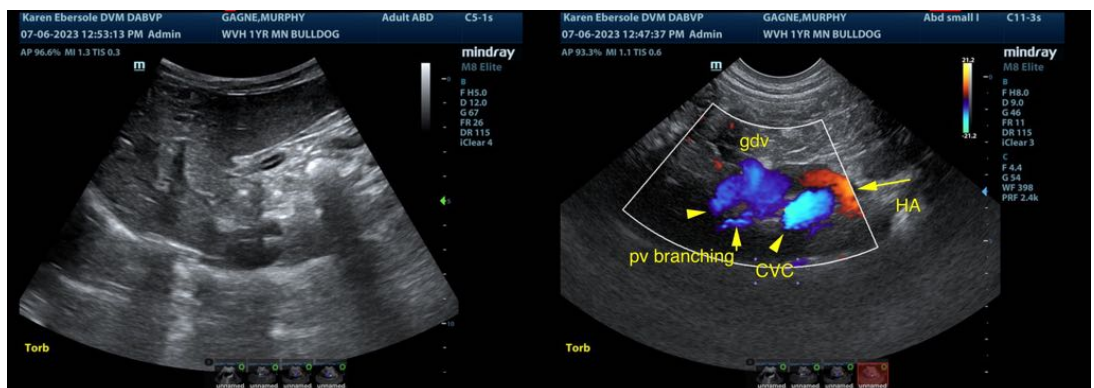
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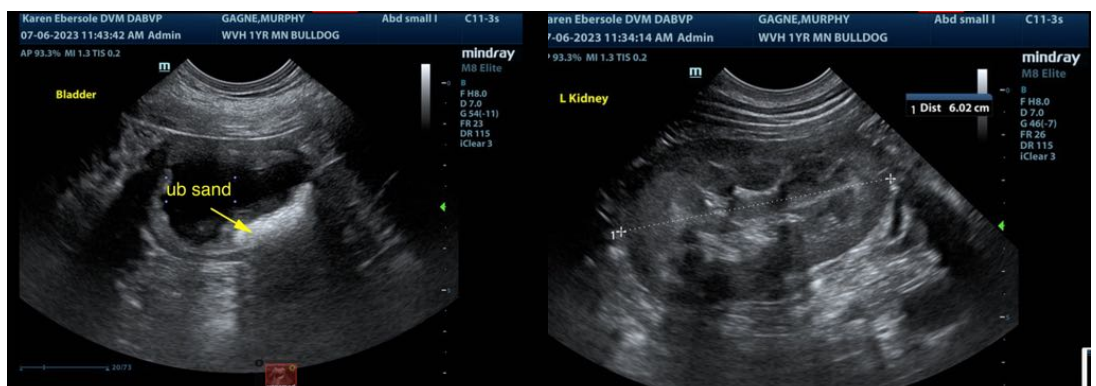
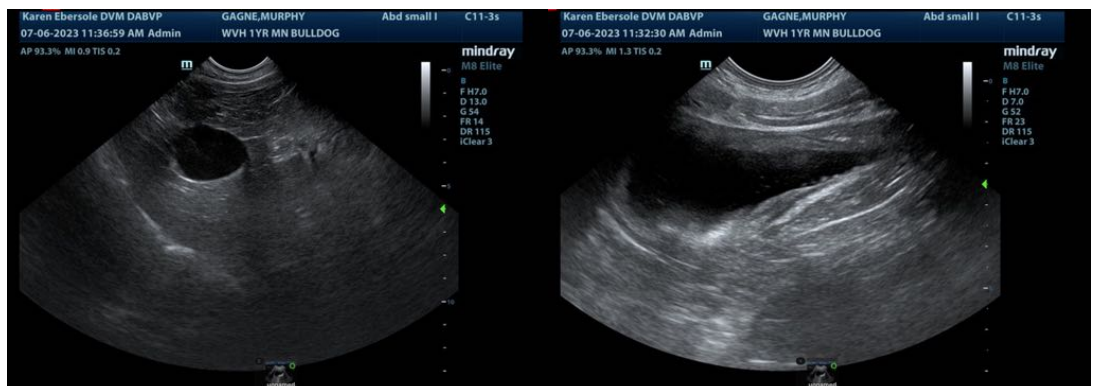
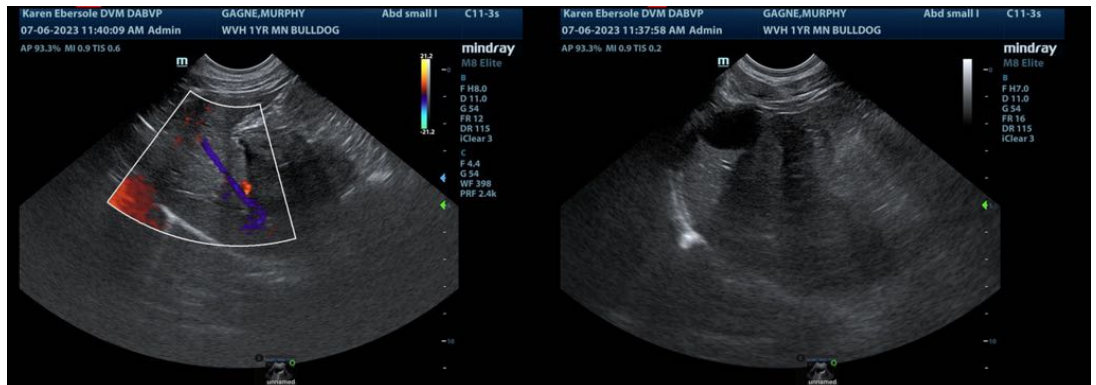
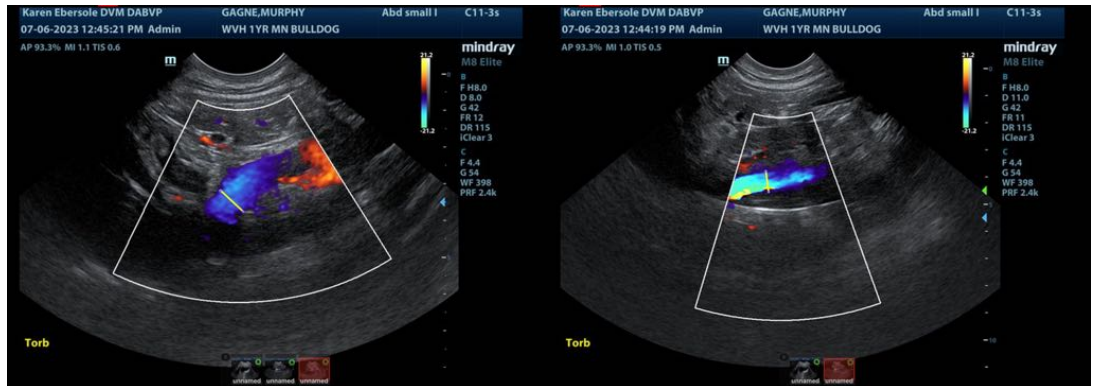
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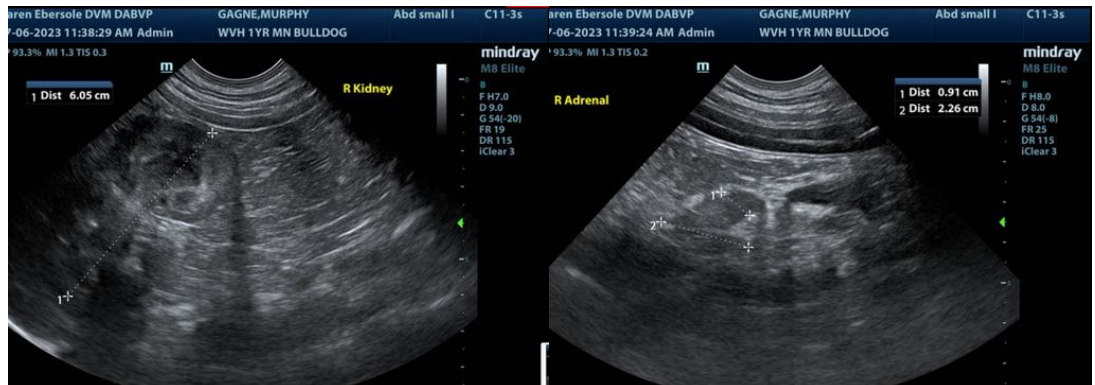
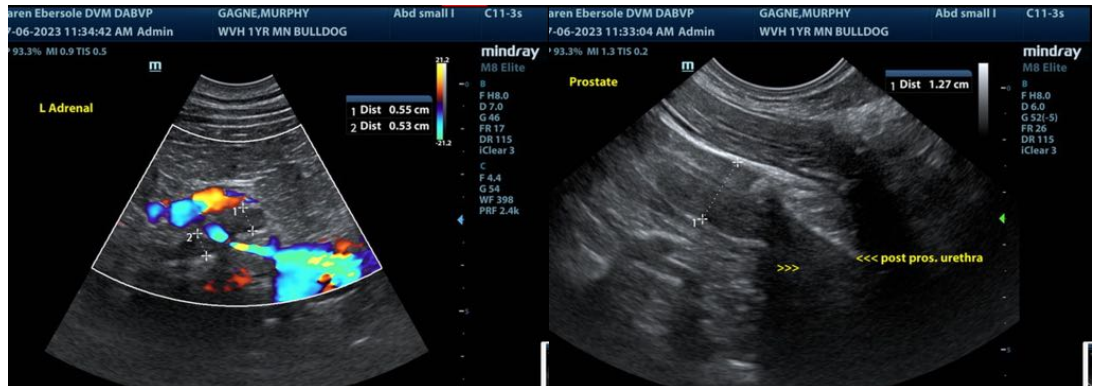
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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