



PATIENT

Roro Bordenave

PRESENTING CLINICAL SIGNS

Lethargy, increased coughing, rads performed at another clinic (Abd+thoracic) concern for liver enlargement (suspect mass)

SPECIES

Canine

Current meds: denamarin, vetmedin, enalapril

Abnormal PE/Chem/CBC/UA Results: ALK 239, ALT 158

BREED

Maltese

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

SEX

MN

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Small right kidney cortical cysts were present. The left kidney measured 3.9 cm in length. The right kidney measured 4.0 cm in length.

AGE

15yr

WEIGHT

NA

The area of the aortic trifurcation was free of pathology.

The area of the residual prostate appeared normal and free of pathology.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.62 cm width at the caudal pole and 1.6 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.62 cm width at the caudal pole and 1.6 cm length.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

Spleen

The spleen exhibited generalized parenchyma heterogeneity with areas of mild capsule asymmetry. Multiple non-disruptive non-homogenous hyperechoic splenic nodules were present, an example measuring 0.9 cm in diameter. A similar appearing mildly expansive hyperechoic macronodule was present in the mid to cranial spleen measuring ~ 3.0 cm in diameter.

IMAGING PERFORMED BY

Jessica Miller

HOSPITAL NAME

Banfield PH of
Bridgewater

Liver/Gallbladder

The liver exhibited mild to moderate generalized enlargement with areas of capsule asymmetry and mild non-homogenous parenchyma. Intermittent discrete areas of hypoechoic parenchyma to intraparenchymal nodules. An example of a liver nodule measured 3.0 cm in diameter. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

REFERRING VET

Dr. Baker

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Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild echogenic ingesta sonographically consistent with food with no signs of ileus, obstruction or foreign material.

DATE

05/01/2023



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The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

Normal visible colon wall layers were present with apparent formed feces in lumen.

SPECIES

Canine

Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

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Free Abdomen

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

SEX

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- Variably sized non-homogenous hyperechoic splenic nodule/macronodule-likely benign myelolipomas, hyperplasia or similar. Splenic nodule/macronodular neoplastic criteria thought less likely.
- Non-homogenous discretely nodular liver-nonspecific, vacuolar hepatopathy, inflammatory disease, hematopoiesis, hyperplasia, fibrosis or other hepatopathy possible. Neoplastic criteria considered less likely.
- Sonographically normal gallbladder.
- Moderate chronic renal changes with cortical cysts.
- Pancreatic remodeling.
- Gastric ingesta.

AGE

15yr

WEIGHT

NA

ULTRASONOGRAPHIC FINDINGS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

Assuming normal clotting status and using a 25g needle, a hepatic and splenic macronodule FNA for screening cytology is warranted for further assessment. No overt indication for immediate surgical intervention (splenectomy).

Sonographic monitoring of the liver and spleen for evidence of progressive parenchymal changes with initial recheck in 4 weeks would be reasonable. Continued as needed hepatosupportive medications is recommended.

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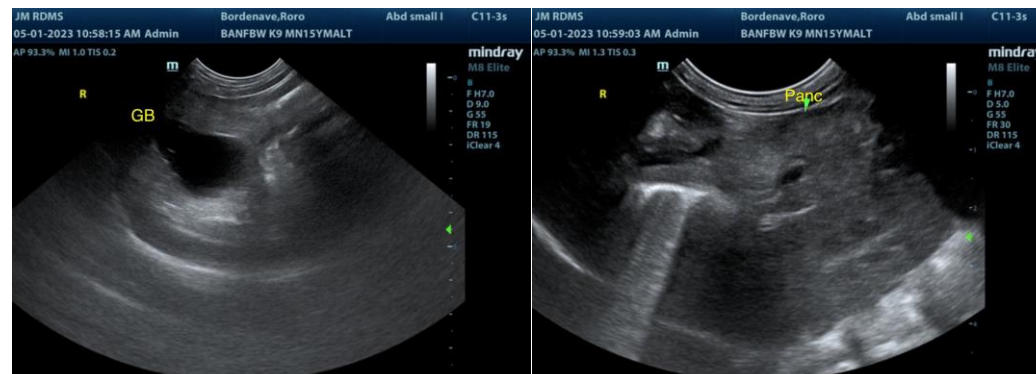
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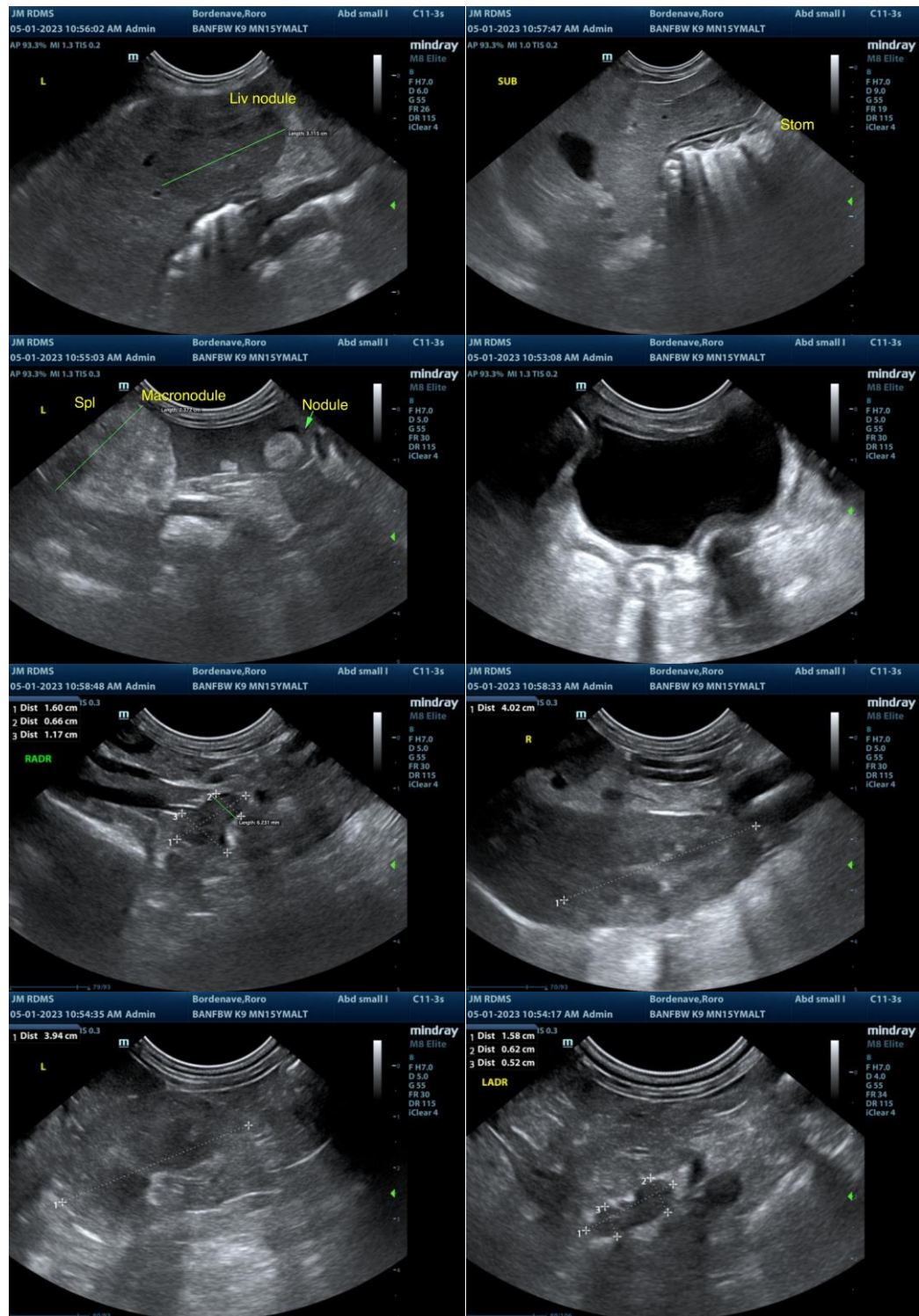
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



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can be of any further assistance, please contact me.

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mac.daniel@sonopath.com

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