

PATIENT PRESENTING CLINICAL SIGNS

Grizzy Bath History: Obese, elevated liver values
 ALP 1845, ALT 160, Albumin 4.2, Glucose 88, BUN 21, Cholesterol 268, T4 1.6

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Border Collie Mix The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths, sediment or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

SEX

Neutered Male The area of the aortic trifurcation was free of pathology.

AGE

7 years Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 7.8 cm in length. The right kidney measured 8.3 cm in length.

WEIGHT

101 Pounds

Adrenal Glands

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP (Canine and Feline) The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.52 cm width at the caudal pole and 0.47 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.45 cm width at the caudal pole and 0.48 cm width at the cranial pole.

IMAGING PERFORMED BY

Rebekah Jakum, CVT ARDMS/RVT

HOSPITAL NAME

Stanglein VC

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

Liver/ Gallbladder

REFERRING VET

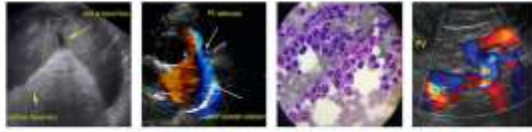
Dr. Green The liver exhibited moderate generalized enlargement. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. Subtle nonhomogeneous regional parenchyma was present in the right lateral to caudate liver lobe. No distinct masses were noted. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with mild, nonorganized, nonmineralized gallbladder debris primarily in the caudal lumen and gallbladder neck. The cystic and common bile ducts were normal.

INVOICE

12936

DATE

12.30.2021



PATIENT

Gastrointestinal

Grizzly Bath

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction, or foreign material.

SPECIES

Canine

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.

BREED

Border Collie Mix

Pancreas

The parenchyma of the left limb, body, and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease were evident.

SEX

Neutered Male

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

AGE

7 years

ULTRASONOGRAPHIC FINDINGS

Primary Findings

WEIGHT

101 Pounds

- Hepatopathy exhibiting mild regional nonhomogeneous right lateral to caudate lobe parenchyma
- Mild gallbladder debris (non-mucocele)

INTERPRETED BY

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

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Although nonspecific, the presentation of the liver was most suggestive of benign hepatopathy. Vacuolar hepatopathy, inflammatory / immune-mediated hepatic disease, toxic hepatopathy i.e., copper hepatopathy with regional areas of nodular hyperplasia, hematopoiesis, early fibrosis, or other hepatopathies possible. No overt suspicion of neoplastic criteria, which is considered less likely.

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Likewise, the bilateral adrenal glands were not overtly consistent with hyperplasia or underlying endocrinopathy.

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Assuming normal clotting status, ultrasound-guided FNA of the hepatic parenchyma, as well as the area of parenchyma heterogeneity in the right lateral liver, if accessible, is warranted for screening cytology. Empirically, hepatosupportive medications including Denamarin and Ursodiol may prove beneficial. Leptospirosis titers / PCR may be considered if clinically indicated. Core or surgical biopsy is likely ideal in this case for histopathology +/- copper staining, given the age of the patient.

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Neutered Male

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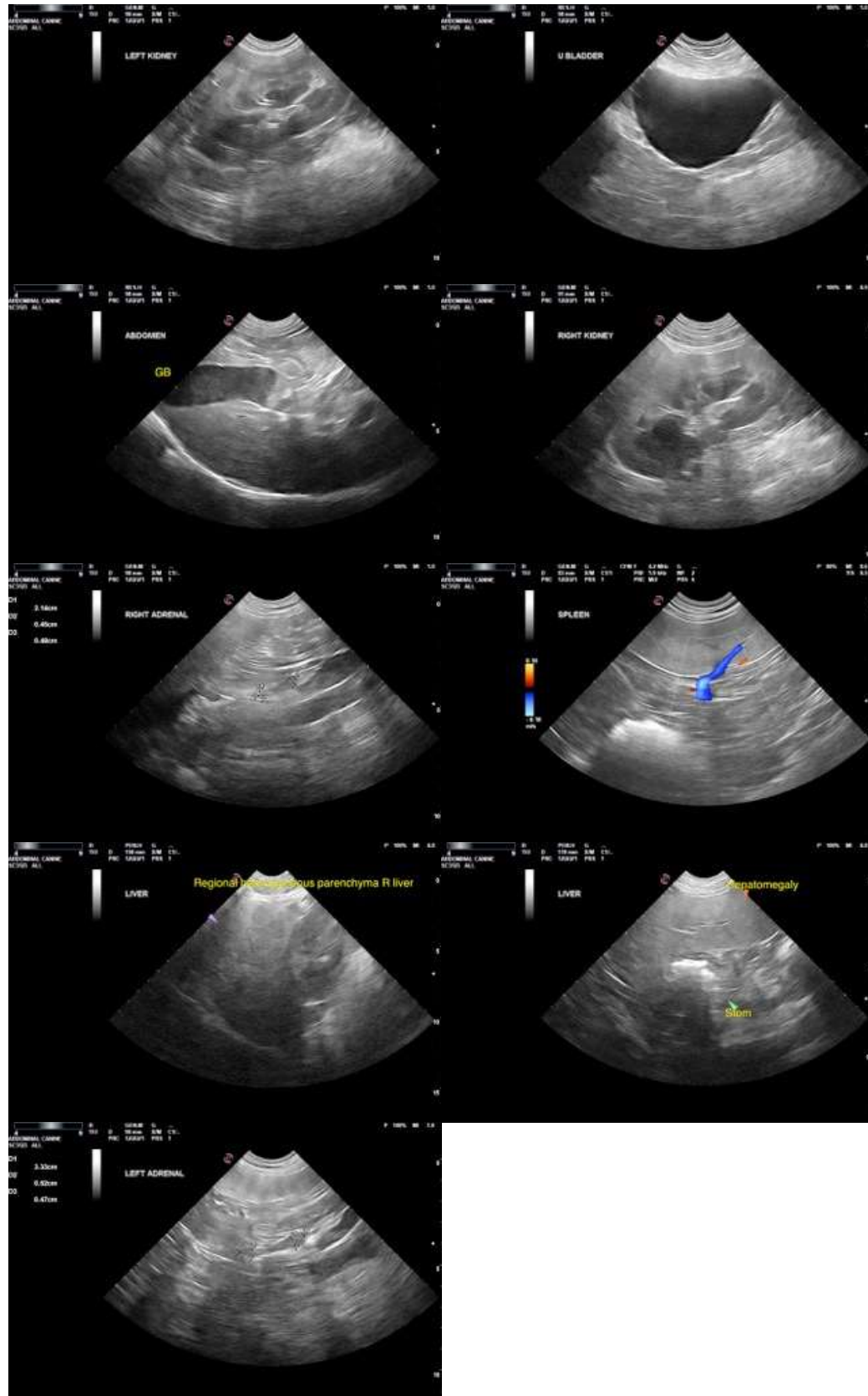
Dr. Green

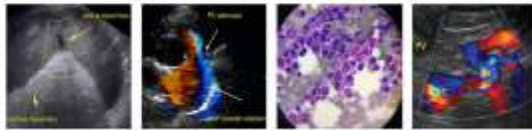
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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