



PATIENT PRESENTING CLINICAL SIGNS

Willow McKnight Lethargic, weight gain, vomiting, decreased appetite/drinking, restless Cerenia, Levothyroxine, Mirtazapine

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED

Border Collie Mix The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal tone to a depth of 3.0 cm. Mild nonuniform thickening of the urinary bladder wall was present. Multiple, variably sized, dependent cystic calculi were present with areas of pinpoint adhered luminal mineral along the apical and ventral luminal surface which exhibited asymmetrical contour. The ventroapical urinary bladder wall width measured 0.38 cm.

SEX

FS The area of the aortic trifurcation was free of pathology.

AGE

11 years 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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. Areas of nonobstructive medullary mineral were present primarily in the lateral diverticuli. No evidence of pelvic dilation was present. The left kidney measured 5.9 cm in length. The right kidney measured 6.8 cm in length.

WEIGHT

61 **Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypochoic parenchyma. The left adrenal gland measured 2.6 cm length x 0.49 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypochoic parenchyma. The right adrenal gland measured 2.7 cm length x 0.49 cm width at the caudal pole.

INTERPRETED BY

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

IMAGING

PERFORMED BY
 Rebekah Jakum, CVT
 ARDMS/RVT

Spleen

The spleen was enlarged with asymmetrical lateral and medial capsule contour. Multiple variably sized to variably echogenic coalescing masses were present throughout the spleen. The largest mass exhibited hypochoic echogenicity and was moderately expansive in the cranial spleen measuring 7.0-8.0 cm in diameter. An example of a smaller mid-splenic mass measured 3.0 cm in diameter. Normal splenic vascularity was noted.

HOSPITAL NAME

Lehigh Valley AH (Bath)

Liver/ Gallbladder

REFERRING VET

Dr. Ferrari

The liver exhibited subjective mild enlargement with areas of asymmetrical contour and diffuse nodular parenchyma. The hepatic nodules exhibited variable echogenicity, some of which resulted in distortion of the hepatic capsule. The gallbladder was non-distended in size with thin walls and mild, nondependent, nonorganized gallbladder debris. The gallbladder was otherwise normal. The cystic and common bile ducts were normal.

INVOICE

13992

Gastrointestinal

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.

DATE

6/2/22



PATIENT

Willow McKnight

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 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.

BREED

Border Collie Mix

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

SEX

FS

Rapid view of the heart revealed subjective mild pericardial free fluid, mild irregular myocardial presentation associated with the right ventricle free wall, and area of the right atrium auricle and right atrioventricular groove.

AGE

11 years

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Infiltrative spleen with multifocal variably sized to echogenic coalescing masses
- Diffuse nodular liver
- Mild gallbladder debris (non-mucocele)
- Subjective mild pericardial effusion and suspect atypical myocardium

WEIGHT

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Secondary Findings

- Bilateral nonobstructive renal medullary mineral / renolithiasis
- Multifocal cystic calculi with concurrent mild cystitis

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 (Canine and Feline)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Unfortunately, the hepatosplenic presentation in addition to evidence of pericardial free fluid and atypical myocardium is consistent with multicentric neoplasia with multicentric sarcoma considered most likely. The multicentric pathology precludes surgical options in this case.

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Screening hepatic FNA +/- splenic FNA, assuming normal clotting status and using a 25-gauge needle, could be considered for screening cytology and potential for oncology consultation or immediate chemotherapeutic intervention. However given this presentation, unfortunately, an unfavorable prognosis is likely indicated.

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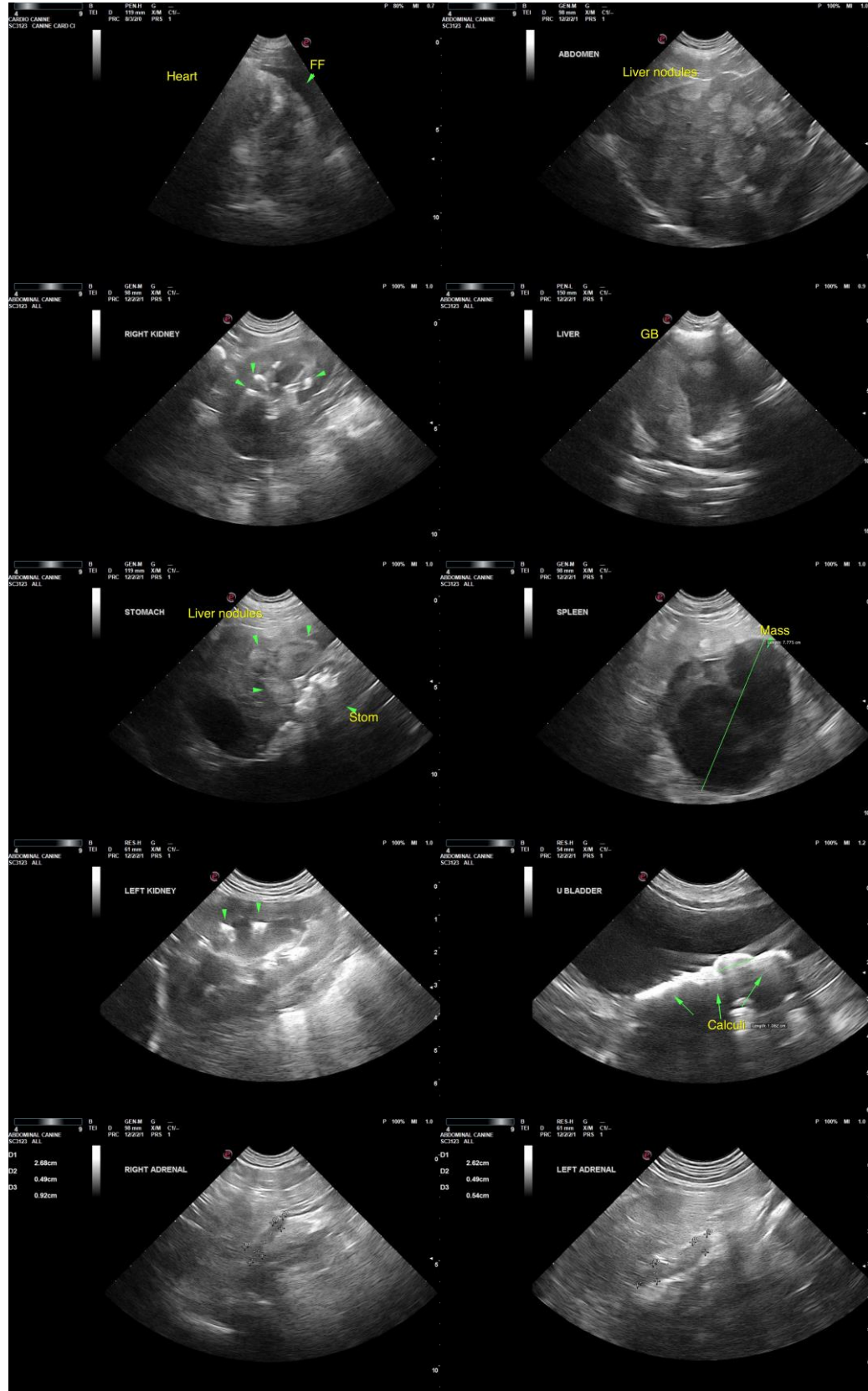
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

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