



PATIENT PRESENTING CLINICAL SIGNS

Rosie Cronin History: Overweight, persistent UTI's
 Abnormal PE/Chem/CBC/UA Results:

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED The urinary bladder presented mildly distended in size with normal tone. The trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. A moderately size mildly nonhomogeneous luminal mass exhibiting cystic to cavitated component occupying the majority of the bladder lumen measuring 4.6 cm x 3.5 cm was present. Evidence of mineralization associated with the mass was not obvious. The ureteral papillae were normal. The ureters were not visible which is normal.

SEX

Spayed female The area of the aortic trifurcation was free of pathology.

AGE

10 years Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some mild to moderately increased echogenicity and loss of corticomedullary symmetry and definition expected for the age of the patient. Areas of nonobstructive medullary to pelvic mineralization to nonobstructive pelvic renolithiasis was present in both kidneys. No evidence of pelvic dilation was present. The left kidney measured 5.5 cm in length. The right kidney measured 6.3 cm in length.

WEIGHT

62.5 pounds **Adrenal Glands**

INTERPRETED BY

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

Unilateral enlargement of the right adrenal gland was present. Asymmetrical adrenal capsule margination was present. An asymmetrically marginated to primarily spherical nonhomogeneous mass in the right adrenal gland was present measuring 4.5 cm x 3.7 cm. No overt evidence of parenchymal mineralization was noted. The parenchyma of the enlarged adrenal gland presented heterogenous to mixed echogenic with nonuniform echotexture. Vascular invasion in the area of the right adrenal mass cannot be excluded. The contralateral adrenal gland was normal in size and measured - cm width at the caudal pole and - cm width at the cranial pole.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
 ARDMS/RVT

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.58 cm width at the caudal pole and 0.68 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 - cm width at the caudal pole and - cm width at the cranial pole.

HOSPITAL NAME

VCA Willow Mill

Spleen

REFERRING VET

Dr. Munkittrick

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

INVOICE

10324ag

The liver presented mildly enlarged in size. A solitary thinly walled intraparenchymal cyst measuring 1.7 cm was present. 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. 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-

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distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal.

Gastrointestinal

SPECIES

Canine

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.

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.

BREED

Bulldog

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

Pancreas

SEX

Spayed female

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.

AGE

10 years

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

WEIGHT

62.5 pounds

- Urinary bladder luminal mass effect-concern for neoplasia such as transitional cell carcinoma, potential for blood clot if evidence of hematuria.
- Bilateral nonobstructive renal medullary mineralization/renolithiasis.
- Vacuolar hepatopathy pattern with focal benign intraparenchymal cyst.
- Right adrenal mass-consistent with neoplastic criteria, adenocarcinoma, pheochromocytoma or other with potential for mixed pathology possible.

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(Canine and Feline)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Urine culture on sterile urine sample with cytospin cytology +/- screening BRAF assay are recommended. Assessment of systemic BP is indicated to assess for evidence of hypertension which may allude to a right pheochromocytoma. Given potential multicentric pathology, abdominal CT for further assessment of the right adrenal mass as well as the UB luminal mass effect with potential for oncology consult is ideal if possible.

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ABOUT SONOPATH CT SERVICES:

REFERRING VET

Dr. Munkittrick

SonoPath CT Services are offered at the Blairstown Animal Hospital. Blairstown, New Jersey. More information can be found at

<https://sonopath.com/resources/sonopaths-teleconsultation-services-and-sdep-certification/sonopath-ct-services>

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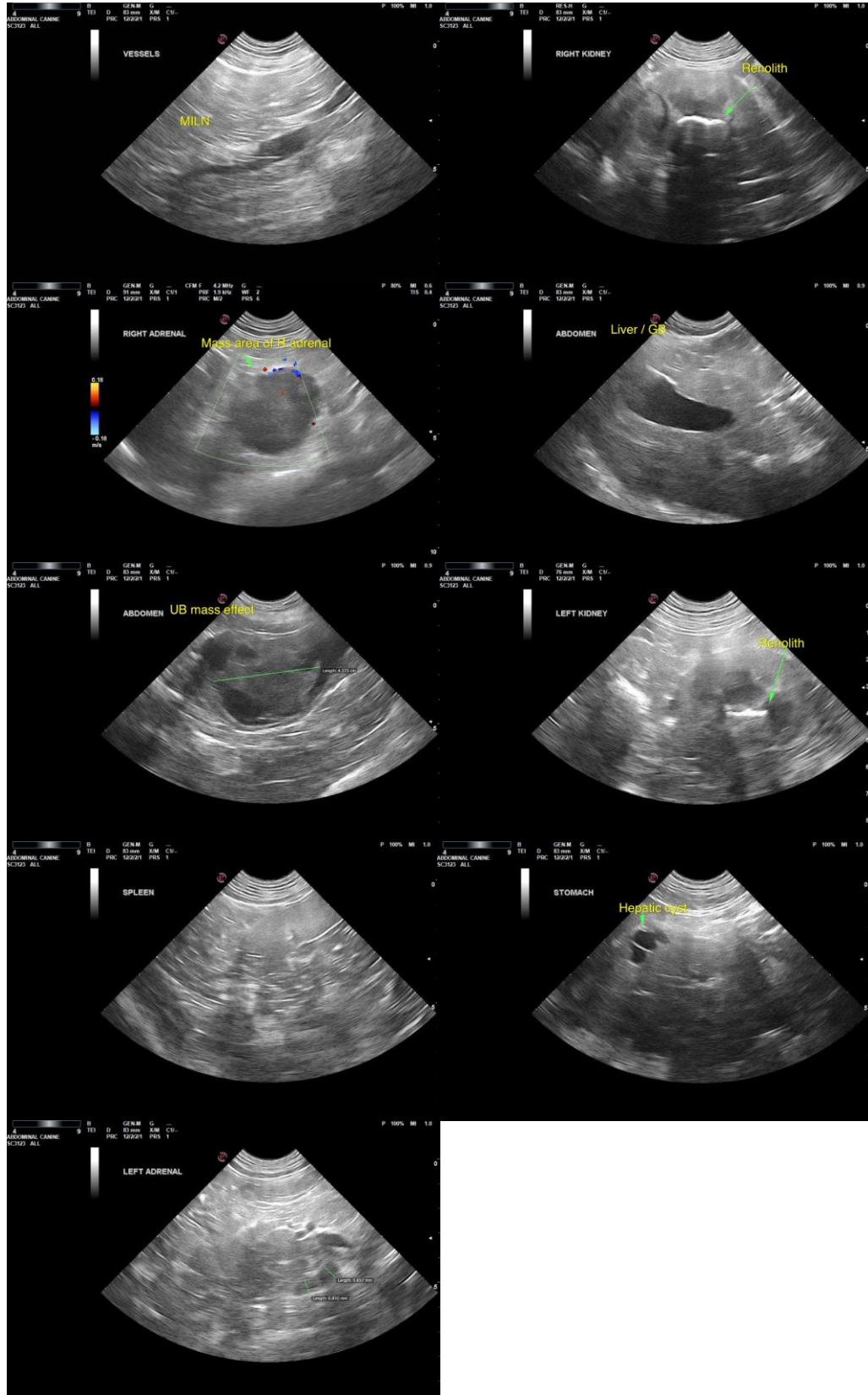
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Bulldog

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com

SEX

Spayed female

AGE

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