



**PATIENT**

Roxy Brooks

**SPECIES**

Canine

**BREED**

Cane Corso

**SEX**

Spayed Female

**AGE**

9 Years

**WEIGHT**

85.4

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Heather Brenner

**HOSPITAL NAME**

Riverside AC

**REFERRING VET**

Dr. Heather Brenner

**INVOICE**

45077

**DATE**

2/10/23

**PRESENTING CLINICAL SIGNS**

15 pound weight loss over 1 year, decreased appetite for 5 weeks. Pruritis last 5 days. Lameness Left front for days. Emergency visit 2/6/23 for pruritis and periorbital edema OS.

Abnormal PE/Chem/CBC/UA Results: Exam 2/8/23 muscle loss dorsal spine, OS mild periorbital swelling with entropion both eyelids with blepharospasms which resolved with proparacaine application. Left front mild interdigital erythema, no joint pain. CBC Monocytosis 1.18 (0.16-1.12). Chemistry BUN 4 (7-27), Chol 74 (110-320), normal Albumen, CPL normal, Heartworm 44DX negative.

**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. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

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 7.96 cm. The left kidney measured 6.91 cm.

**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 left adrenal gland measured 2.59 cm x 0.39 cm at the cranial pole and 0.36 cm at the caudal pole. The right adrenal gland measured 1.3 cm x 0.49 cm at the cranial pole and 0.47 cm at the caudal pole.

**Spleen**

The **spleen** was mildly enlarged and folded upon itself. Subtle granular appearance. Minor scalloping contour.

**Liver**

The **liver** revealed diffuse micro- and macronodular changes and generalized hepatomegaly. Increased portal markings noted. Target type nodular changes noted in various portion of the liver, particularly in the right cranial liver. The gallbladder was deviated owing to internal mass effects.

**Gastrointestinal**

The **gastrointestinal** presentation revealed mild uniform prominence of the gastric mucosa as well as areas of "ropey" small intestinal wall with slight disruption of the normal 1:3 muscularis/mucosal ratio. The intestinal submucosa was slightly irregular, thickened and hyperechoic suggestive of low grade, chronic disease. No concerning lymphadenopathy was visible. No evidence of obstruction was present. Chronic inflammatory bowel disease is likely with a low possibility of an early neoplastic event such as lymphoma. Full thickness tissue biopsies via open laparotomy, ideally guided by intraoperative ultrasound in order to obtain the most representative mural sample, would be necessary to rule out this possibility.



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**Pancreas**

Roxy Brooks

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.

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Canine

**ULTRASONOGRAPHIC FINDINGS**

**BREED**

Cane Corso

- Diffuse hepatic nodular changes
- Splenic enlargement with granular parenchyma
- Diffuse intestinal thickening

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Spayed Female

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**AGE**

9 Years

FNA spleen and liver warranted. Bile acid profile warranted. Concern for underlying hepatosplenic neoplasia versus pronounced nodular hyperplasia and reactive spleen, especially given the low BUN and cholesterol. Hepatic dysfunction is a concern. Malassimilation of nutrients is also a potential. No neoplastic criteria noted in the GI tract.

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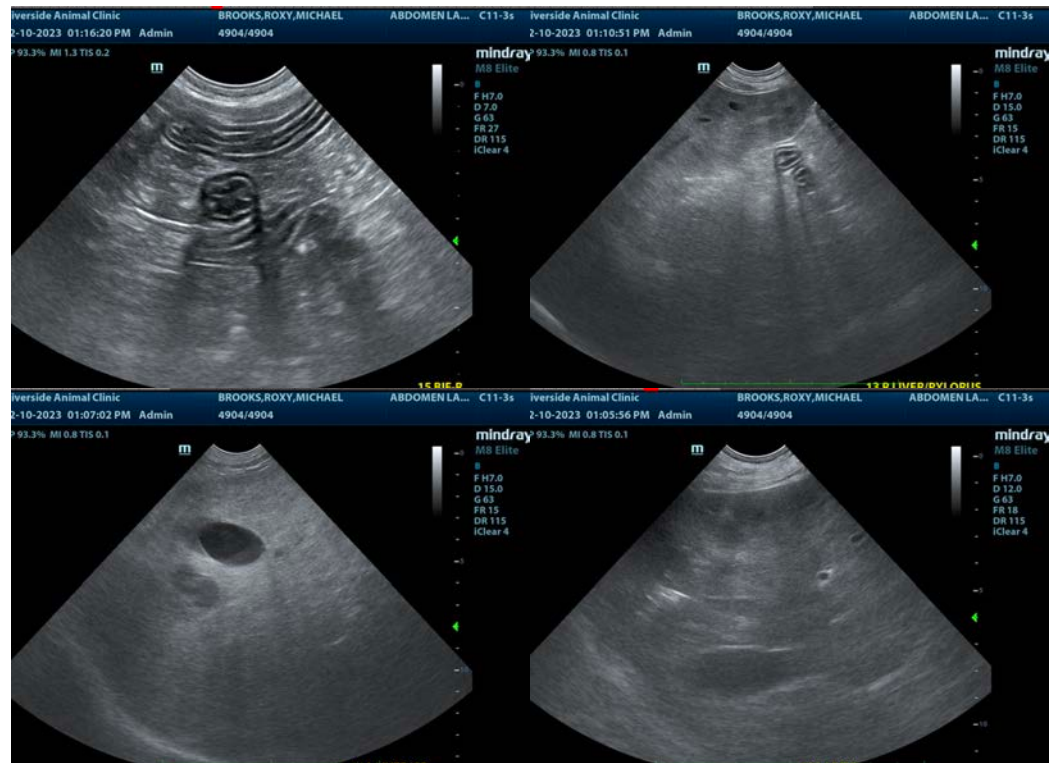
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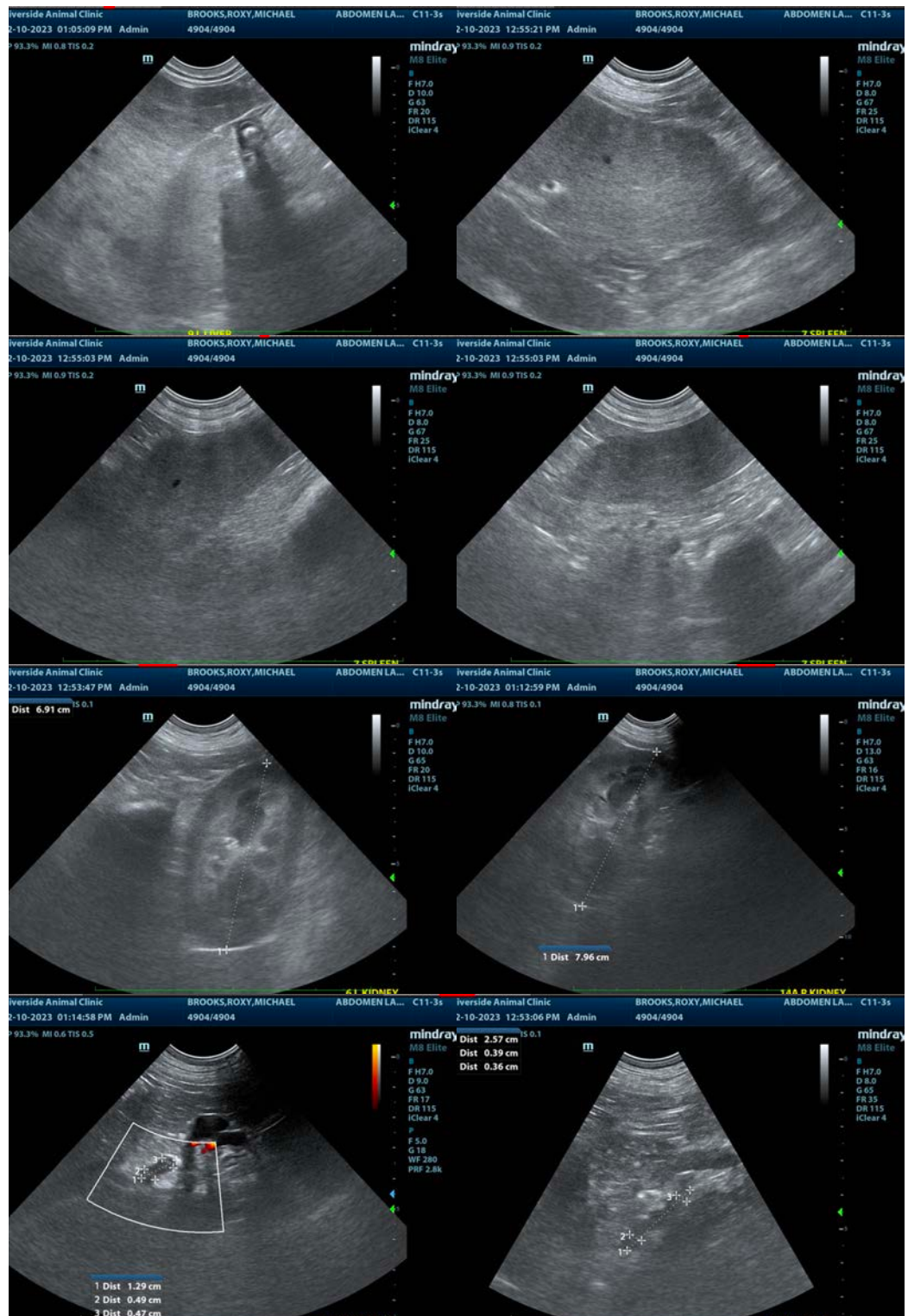
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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**

Cane Corso

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

[info@SonoPath.com](mailto:info@SonoPath.com)

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