**PATIENT**

Lemon Drake

SPECIES

Canine

BREED

Border Collie Mix

SEX

FS

AGE

9yr

WEIGHT

43lb

INTERPRETED BYR. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)**IMAGING PERFORMED BY**

Rachel Runnells RVT

HOSPITAL NAMESVS Imaging Kansas
City**REFERRING VET**

Dr. Sarah Meineka

INVOICE

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DATE

08/09/2022

PRESENTING CLINICAL SIGNS

History: Presented for wellness exam and vomiting/diarrhea. Weight loss of 6 pounds over the last 6 months. Owner feels she is generally not herself and slower than usual. Incidentally on abdominal radiographs found splenic enlargement and possible mass effect in the region of the spleen.

Abnormal PE/Chem/CBC/UA Results: Spleen appears to be more rounded and lobular on radiographs. Cardiac silhouette is more round than expected.

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.

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 increased echogenicity and loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.0 cm in length. The right kidney measured 6.6 cm in length.

The area of the aortic trifurcation was free of pathology.

No pathology in the area of the uterine remnant.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.79 cm width at the caudal pole and 0.85 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. A solitary non expansive hyperechoic nodule was present in the cranial right adrenal gland measuring 0.77 cm x 0.66 cm. The right adrenal gland measured 0.77 cm width at the caudal pole and 0.90 cm width at the cranial pole.

Spleen

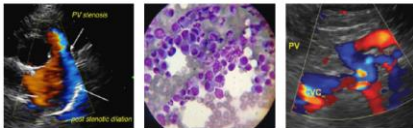
The spleen exhibited generalized enlargement with primarily maintained symmetrical capsule contour with parenchyma heterogeneity and a solitary discrete hypoechoic nodule measuring 2.0 cm in diameter. Medial folding of the cranial spleen was present. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.

Liver

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

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

Gastrointestinal

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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 gastric body wall measured 0.30 cm in width.

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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. The small intestine wall measured 0.36 cm in width.

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

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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 was evident.

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Free Abdomen

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

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Rapid view of the heart revealed no evidence of pericardial masses or effusion in the visible window.

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ULTRASONOGRAPHIC FINDINGS

- Right adrenal nodule-suspect adenoma
- Mild chronic renal changes
- Splenomegaly exhibiting generalized mild parenchyma heterogeneity and a focal macronodule with cranial folding
- Vacuolar hepatopathy pattern-subjectively benign

INTERPRETED BYR. McKenzie Daniel,
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(Canine and Feline)**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Potential for emerging neoplastic right adrenal nodule technically cannot be definitively excluded. Screening BP to assess for hypertension which may allude to an emerging right adrenal pheochromocytoma is recommended. The splenomegaly in this patient is nonspecific. No definitive splenic masses were noted.

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Assuming normal clotting status an ultrasound guided FNA of the spleen is warranted for screening cytology and further assessment.

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A GI panel to include PLI/TLI/Cobalamin/Folate is recommended.

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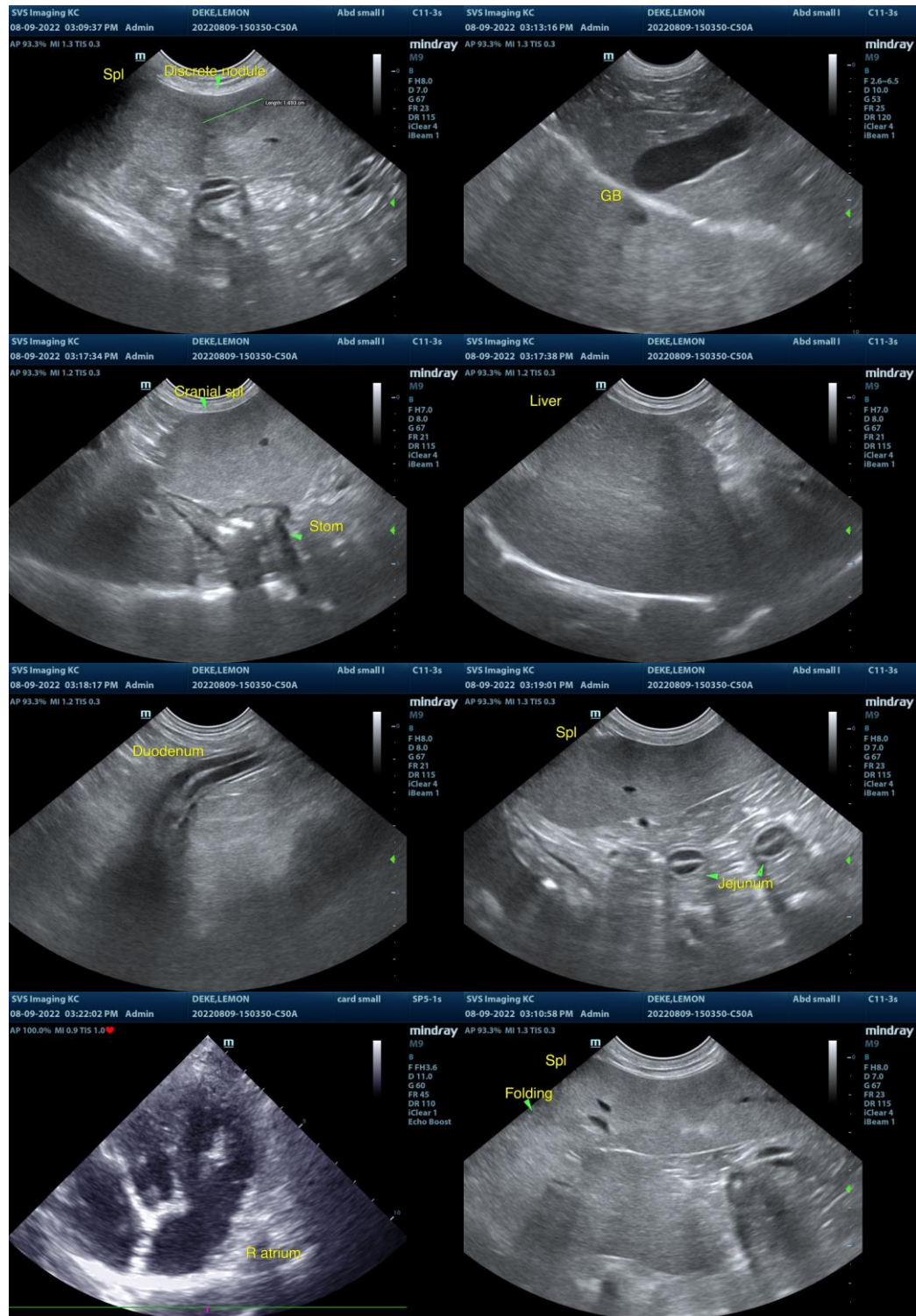
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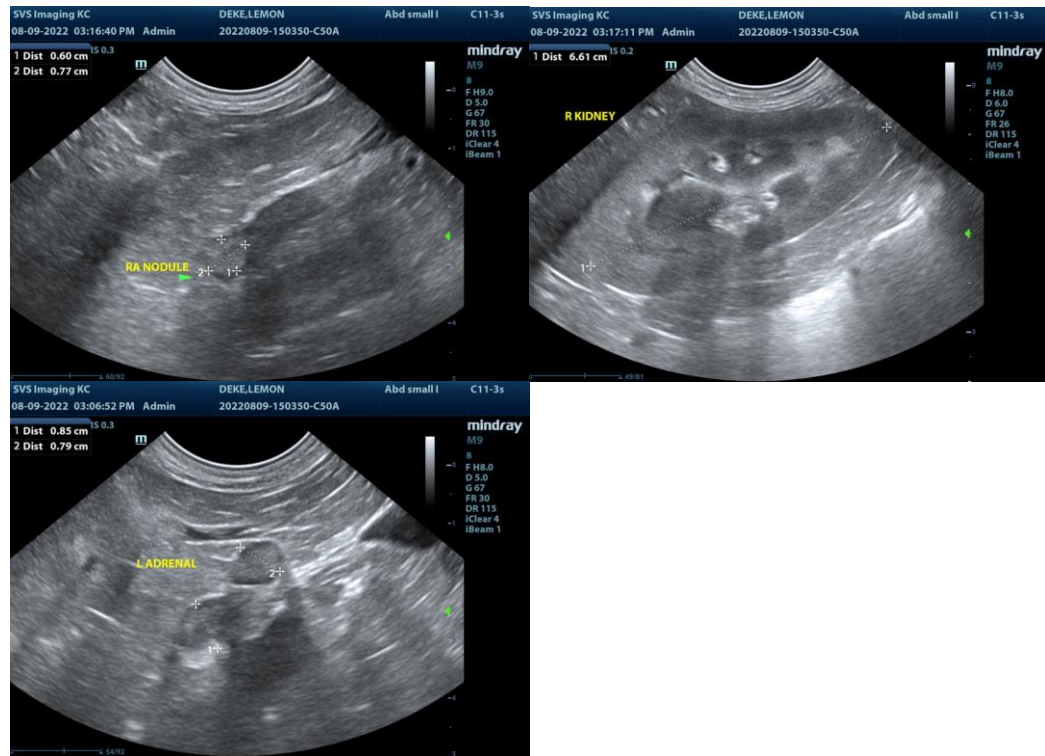
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

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