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| PATIENT | PRESENTING CLINICAL SIGNS |
| Zeus Spurr | Presented 3/16/2023 for vomiting and diarrhea: Abnormal cPL, faint anemia, ALP = 304. Slightly thin, pre-existing Grade 4/6 murmur, abdomen palpated normally. Treated as for pancreatitis and V&D improved, but appetite has continued to be poor. Recheck today: emaciated, dehydrated, pale, large cranial abdominal mass protruding from behind ribcage. P not currently on any meds |
| SPECIES | |
| Canine | Abnormal PE/Chem/CBC/UA Results: See attached labs: did not repeat BW due to budget concerns, but Coags are normal. |
| BREED | ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN |
| Terrier Mix | <i>Urinary System</i> |
| SEX | The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with very minor particulate sediment. |
| MN | The sediment may indicate cellular debris / protein, crystalline debris, lipid, or mucus. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted. |
| AGE | |
| 11yr | 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. No evidence of pelvic dilation was present. Bilateral focal areas of mineralization were present. The left kidney measured 5.2 cm in length. The right kidney measured 5.2 cm in length. |
| WEIGHT | |
| 14lb | The area of the aortic trifurcation was free of pathology. |
| INTERPRETED BY | The area of the iliac trifurcation was free of pathology including no evidence of medial, iliac or sublumbar lymphadenopathy. |
| R. McKenzie Daniel, DVM, DABVP (Canine and Feline) | The area of the residual prostate appeared normal and free of pathology. |
| IMAGING PERFORMED BY | <i>Adrenal Glands</i> |
| Jasmine Palacios | Bilateral symmetrical adrenal gland enlargement was present based on caudal pole width and body weight. Uniformly hypoechoic parenchyma was present. The left adrenal gland measured 0.60 cm width at the caudal pole and 1.9 cm length. The right adrenal gland measured 0.75 cm width at the caudal pole and 1.2 cm length. |
| HOSPITAL NAME | <i>Spleen</i> |
| Rivers Edge Pet Medical Center | The spleen exhibited potential mild enlargement with symmetrical capsule contour and subtle parenchymal heterogeneity. Intermittent variably echogenic to non-homogenous nodules were present, an example measuring 1.1 cm in diameter. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. |
| REFERRING VET | <i>Liver/Gallbladder</i> |
| Dr. Hayes | Severely enlarged irregular liver was present with caudal parenchymal expansion past the level of the gastric axis and into the area of the cranial spleen. An ill-defined caudal hepatic mass was present measuring at least 11 cm in diameter. Intermittent non-homogenous mildly expansive intraparenchymal nodules were present. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild non-organized hyperechoic debris. The cystic and common bile ducts were normal. |
| INVOICE | |
| 13426ag | |
| DATE | |
| 04/07/2023 | |



PATIENT

Gastrointestinal

Zeus Spurr

The stomach presented wall thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. Mild gastric distension with variably echogenic ingesta was present.

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.

BREED

Terrier Mix

The colon walls presented intact yet prominent wall layering with mild thickened to echogenic submucosa. Nonformed to liquid fecal matter was present in the colon lumen with lumen dilation.

Pancreas

SEX

MN

The left limb of the pancreas presented hypoechoic to heterogeneous echogenicity compared to adjacent omental fat. Mild asymmetrical capsule margination was present with mild variable parenchymal swelling and mild peripancreatic reactivity / inflammation. No overt evidence of neoplasia.

AGE

11yr

Free Abdomen

No overt lymphadenopathy was present.

Generalized perihepatic to cranial abdominal hyperechoic omentum and mild volume anechoic peritoneal free fluid was present.

WEIGHT

14lb

ULTRASONOGRAPHIC FINDINGS

- Severely enlarged nodular/non-homogenous liver with caudal parenchymal expansion/ill-defined hepatic mass.
- Variably echogenic non-expansive splenic nodules.
- Gastroenteritis pattern with variably echogenic gastric ingesta.
- Possible concurrent mild pancreatitis-left pancreatic limb.
- Generalized perihepatic to cranial abdominal hyperechoic omentum and mild volume anechoic peritoneal free fluid.

INTERPRETED BY

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

IMAGING PERFORMED BY

Jasmine Palacios

HOSPITAL NAME

Rivers Edge Pet
Medical Center

REFERRING VET

Dr. Hayes

Secondary findings

- Mild chronic renal changes with non-obstructive medullary mineral.
- Minor urinary bladder sediment.
- Mild gallbladder debris.
- Bilateral mild adrenomegaly.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The severely enlarged irregular nodular liver with ill-defined hepatic mass is most consistent with neoplastic criteria. Potential for concurrent splenic metastasis is of concern although not definitive with incidental hyperplasia, hematopoiesis, focal splenitis, small hematoma, myelolipomas or other possible.

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A hepatic FNA for screening cytology is warranted for further assessment as well as effusion analysis cytology +/- C/S if clinically indicated. Surgical options appear to be precluded given diffuse and significant hepatic parenchymal pathology.

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PATIENT

Zeus Spurr

SPECIES

Canine

BREED

Terrier Mix

SEX

MN

AGE

11yr

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REFERRING VET

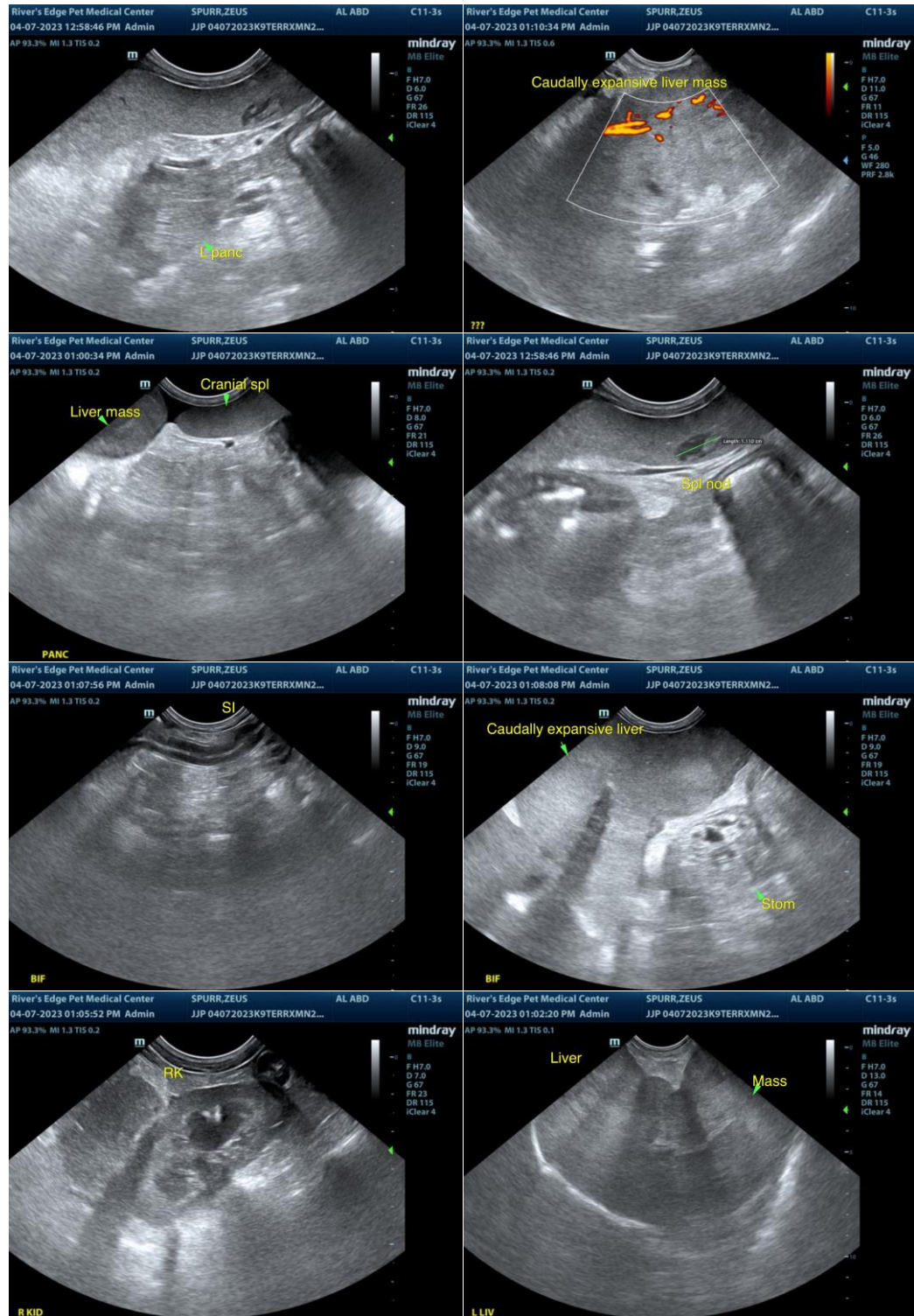
Dr. Hayes

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PATIENT

Zeus Spurr

SPECIES

Canine

BREED

Terrier Mix

SEX

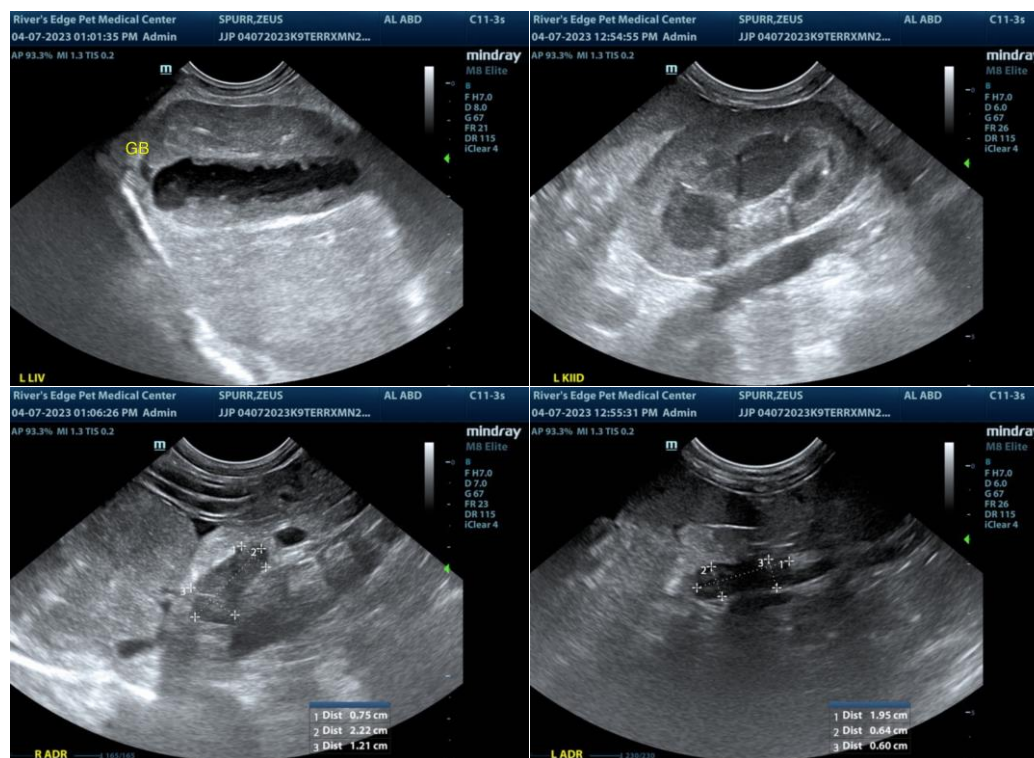
MN

AGE

11yr

WEIGHT

14lb



INTERPRETED BY

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

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.

IMAGING PERFORMED BY

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