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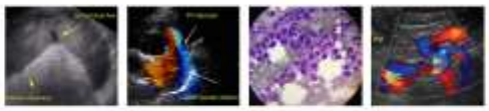

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PATIENT

Autumn McKenney

SPECIES

Feline

BREED

DSH

SEX

FS

AGE

13 Years

WEIGHT

18.9 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

HOSPITAL NAME

East Boston Animal Hospital

REFERRING VET

Raman Chopra, DVM

INVOICE

47177

DATE

8-29-21

PRESENTING CLINICAL SIGNS

Hematuria. History diabetes controlled on Lantus. Taking Orbax 1.5 mg SID. CBC: WBC 29.3; UA: WBC >50

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder exhibited enlarged size primarily owing to generalized severely thickened walls. The urinary bladder wall measured up to 1.6 cm width. Minimal distension with urine was present. The proximal urethra also exhibited thickened walls to a depth of 2.0 cm. The proximal urethra measured 1.4 cm width. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

No evidence of pathology in the area of the aortic trifurcation.

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 moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Mild pyelectasia was present in the left kidney. The left kidney measured 3.5 cm in length. The right kidney measured 4.0 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.55 cm width.

No overt pathology in the area of the right adrenal gland.

Spleen

The spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Subtly echogenic non-expansive nodules were present throughout the cranial to caudal parenchyma. An example of a splenic nodule measured 0.42 cm diameter. 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. The spleen measured 0.86 cm width at the level of the hilus. Acute to chronic inflammatory or neoplastic changes were not noted. The echogenic nodules tend to trend benign and are most consistent with benign hyperplasia or myelolipomas.

Liver

The liver was mildly enlarged. Multifocal variably sized to expansive nonhomogeneous masses were present. An example of a hepatic mass measured 3.3 cm in diameter. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion.

The gallbladder was non distended in size with minor echogenic, nonmineralized gallbladder debris. The cystic duct and common bile ducts were normal without evidence of dilation.

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. The gastric body wall measured 0.25 cm width.

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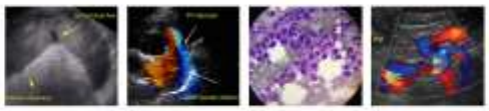

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The small intestine exhibited primarily intact wall layering and maintained 1:3 muscularis/mucosa ratio. Focal area of thickened jejunum secondary to hypoechoic muscularis hypertrophy and altered wall layering was present. This segment of jejunum measured up to 0.49 cm width. 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.

Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

Free Abdomen

Multiple enlarged, hypoechoic mesenteric lymph nodes were present. The lymph nodes exhibited symmetrical to rounded margination with abnormal width: length ratio (>0.5). Mild peritoneal free fluid was present. The mesenteric lymph nodes measured 2.1 cm length and 1.3 cm width.

ULTRASONOGRAPHIC FINDINGS

- Extensive urinary bladder and proximal urethral mass.
- Multifocal hepatic masses.
- Focal small intestinal mural mass.
- Hypoechoic to swollen mesenteric lymphadenopathy and minor peritoneal free fluid.
- Moderate chronic renal changes with minor left kidney pyelectasia.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

This study is consistent with multicentric neoplasia involving the urinary bladder and proximal urethra, liver, and multifocal mesenteric lymph nodes. Primary differential would include primary urinary bladder neoplasia with suspected metastatic disease to mesenteric lymph nodes and liver.

Assuming normal clotting status, urinary bladder and hepatic FNA may be considered for screening cytology with oncology consult and potential for chemotherapeutic intervention. However, unfortunately, an unfavorable long term prognosis is likely indicated.

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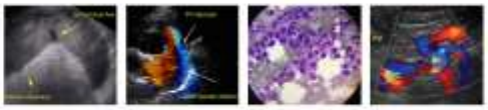

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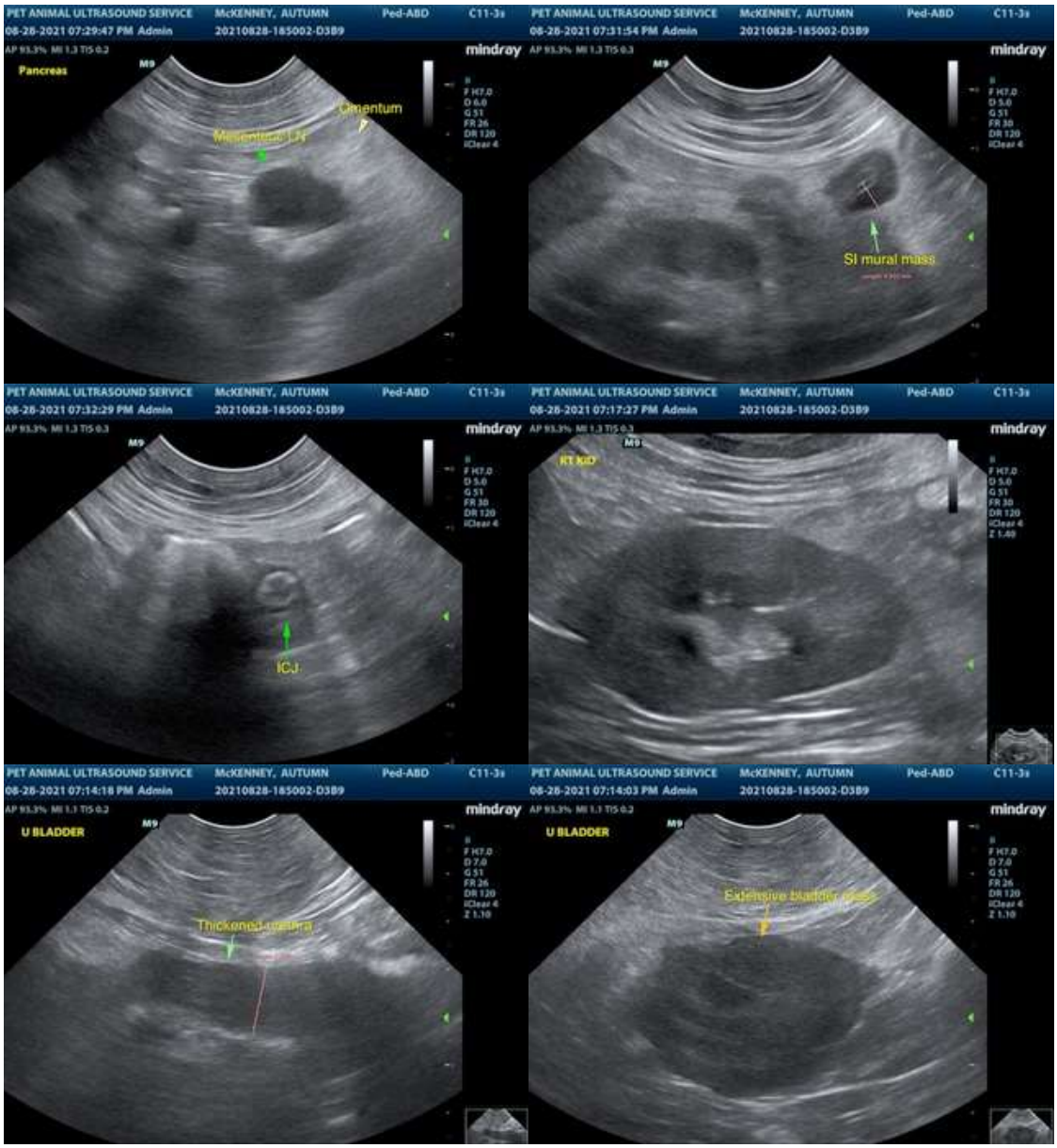

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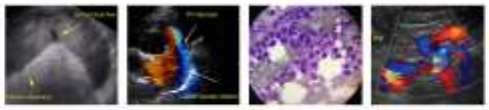

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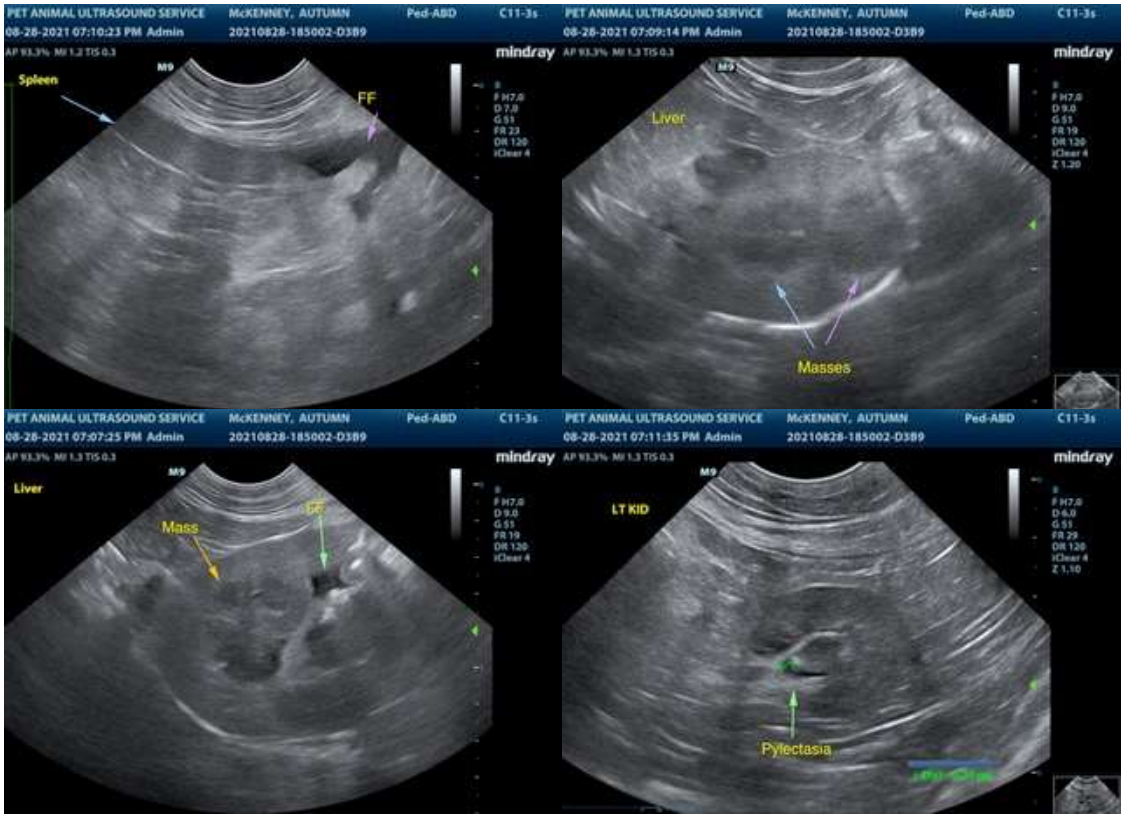

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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)
info@SonoPath.com