



PATIENT PRESENTING CLINICAL SIGNS

Maddie DiThomas Presented to ER in July for lethargy & decreased appetite 7 days post dog bite. AUS showed mild hepatomegaly/hepatopathy (BW WNL), and large splenic mass. Recheck AUS to assess splenic mass.

SPECIES Abnormal PE/Chem/CBC/UA Results:

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Pomeranian

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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.

SEX

FS

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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 3.5 cm in length. The right kidney measured 4.3 cm in length

AGE

9yr

The area of the aortic trifurcation was free of pathology.

WEIGHT

15lb

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.41 cm width at the caudal pole and 0.33 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 0.40 cm width at the caudal pole and 0.40 cm width at the cranial pole.

INTERPRETED BY

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

Spleen

A mildly expansive solid mass involving the spleen with secondary capsule expansion and disruption was present and measured 4.2 cm in diameter. The parenchyma of the mass was heterogeneous to mixed echogenic without areas of cavitation. The non-affected spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Liver

The liver presented mildly 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 and mild non-dependent non-organized echogenic luminal debris. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

HOSPITAL NAME

Pine Banks Animal Hospital

REFERRING VET

Dr. Syed

INVOICE

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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.

DATE

12/04/2022

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.



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

Maddie DiThomas

Pancreas

SPECIES

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.

Canine

Free Abdomen

BREED

No omental masses or overt lymphadenopathy was present.

Pomeranian

A small pocket of scant anechoic free fluid was present in the caudal abdomen adjacent to the urinary bladder, this may be physiologic assuming normal ALB levels

SEX

ULTRASONOGRAPHIC FINDINGS

FS

- Solitary mildly expansive homogeneous solid splenic mass
- Subjective mild hepatomegaly-benign
- Mild gallbladder debris (non-mucocele)
- Early age-related renal changes
- Unremarkable GI tract/pancreas

AGE

9yr

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

15lb

Although non-specific there is a good chance that the splenic mass may be benign i.e. hyperplasia, hematopoiesis, splenitis etc. The possibility of emerging neoplasia which may present sonographically similar cannot be excluded. No evidence of intra-abdominal metastasis was present. Sonographic monitoring of the mass with recheck in 3-4 weeks would be reasonable.

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

Assuming normal clotting status and using a 25g needle, a splenic mass FNA for screening cytology could be considered for further assessment. If not evidence of pathology in three view chest radiographs and normal cardiopulmonary status, splenectomy with histopathology would be a more aggressive approach. Hepatosupportive medications such as Denamarin or Vitamin E as well as Ursodiol may be considered if evidence of cholestasis or hepatic enzyme elevations are noted.

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PATIENT
 Maddie DiThomas

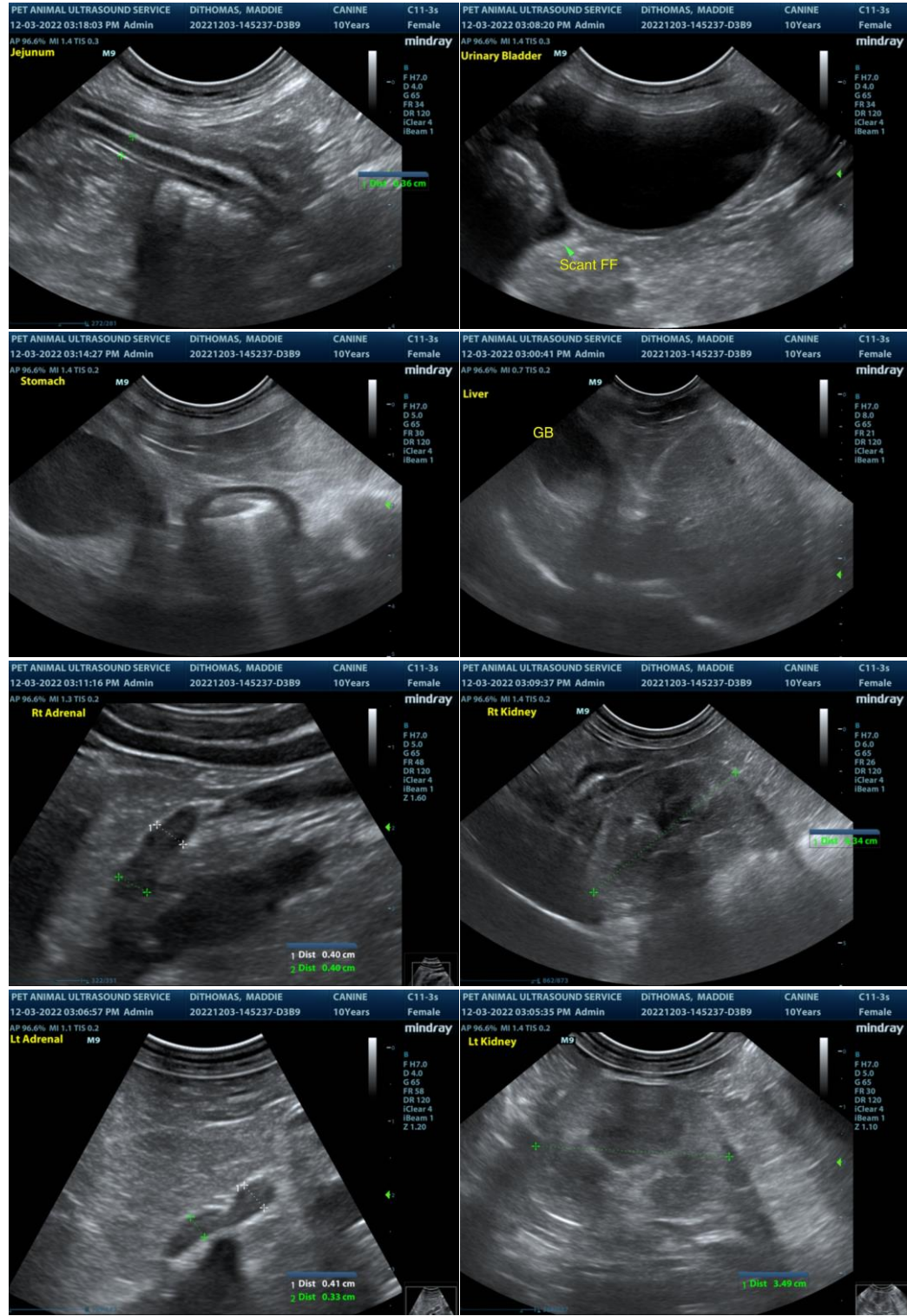
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 R. McKenzie Daniel, DVM,
 DABVP (Canine and Feline)

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 Pamela Harrigan, RDCS

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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.



PATIENT

Maddie DiThomas

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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info@SonoPath.com

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