



**PATIENT PRESENTING CLINICAL SIGNS**

**Molly Matas** Presented at our hospital for falling down the stairs. O stated P fell down the stairs yesterday and was lethargic and disoriented overnight. P seemed slightly better today, but still lethargic. P urinated frank blood ~20min prior to presentation at Shores. O stated P vomited twice today.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Temp: 103.2 Cardiovascular: weak femoral pulses; gr 1/5 systolic Respiratory: mild increase BV sounds Abdominal: tense- mass palpated Rads- age related lung changes; large, midabdominal mass with effusion concerns; mild vertebral spondylosis thoracic vertebra. CBC- anemia( Hct 14.3% manual 17 %) thrombocytopenia at 13 k; stress leukogram Chem- BUN 32.5 (H) GGT 40 (H) TBILI 1.5 (H) EPOC- K+ 3.0 (L) iCa+ 1.108(L) BUN 28 (H) Hct 14 % (L)

**BREED**

Maltese

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**SEX**

**Urinary System**

Spayed Female

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

**AGE**

12 Years

The area of the aortic trifurcation was free of pathology. No evidence of medial iliac or sublumbar lymphadenopathy.

**WEIGHT**

5.6 kg

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 4.2 cm. The right kidney measured 4.7 cm.

**INTERPRETED BY**

**Adrenal Glands**

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

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.49 cm at the cranial pole and 0.49 cm at the caudal pole.

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

**IMAGING PERFORMED BY**

**Spleen**

Erin Wicks

The spleen exhibited generalized moderate to marked asymmetrical enlargement with associated lateral and medial irregular contour. Generalized nonhomogeneous to mild mixed echogenic splenic parenchyma noted, including intermittent to several mildly expansive, nonhomogeneous, cavitated appearing, mildly expansive nodules. Example of splenic nodule measured 1.8 cm in diameter.

**HOSPITAL NAME**

Shores VEC

**Liver**

**REFERRING VET**

Dr. Miller

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. 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. Very minor congealed echogenic luminal debris present, likely incidental. The cystic and common bile ducts were normal.

**INVOICE**

42878

**Gastrointestinal**

**DATE**

11/19/22

The stomach presented intact wall layering with a normal wall layer ratio. A mild amount of retained echogenic fluid and chyme present in the lumen.



**PATIENT**

Molly Matas

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.

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

**SPECIES**

Canine

***Pancreas***

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of overt inflammation or neoplasia. Likely consistent with age related pancreatic changes.

**BREED**

Maltese

***Free Abdomen***

Regional, primarily perisplenic, mild hyperechoic mesentery noted along with mild, primarily perisplenic, peritoneal free fluid.

**SEX**

Spayed Female

No overt omental lymphadenopathy.

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

12 Years

- Marked asymmetrical splenomegaly exhibiting nonhomogeneous to nodular parenchyma - consistent with infiltrative splenic neoplasia (sarcoma, round cell neoplasia, etc.), marked hyperplasia, hematopoiesis, splenitis less likely

**WEIGHT**

5.6 kg

- Associated mild perisplenic hyperechoic mesentery and mild volume peritoneal free fluid - suspect mild hemoabdomen

- Normal liver

**INTERPRETED BY**

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

- Mild age-related kidneys

- Sonographically unremarkable gastrointestinal tract with mild retained gastric fluid/chyme

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**IMAGING PERFORMED BY**

Erin Wicks

No obvious intra-abdominal metastasis although possible non-sonographically detectable metastasis cannot be excluded. Ideally brief echocardiogram to assess for cardiac or pericardial effusion / masses is suggested. If no evidence of thoracic / cardiac metastasis, splenectomy could be considered yet likely dependent on stabilization of anemia / thrombocytopenia. However, very guarded to unfavorable prognosis is suspected with possible neoplasia associated anemia / thrombocytopenia given relatively mild peritoneal free fluid.

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Shores VEC

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Dr. Miller

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**PATIENT**

Molly Matas

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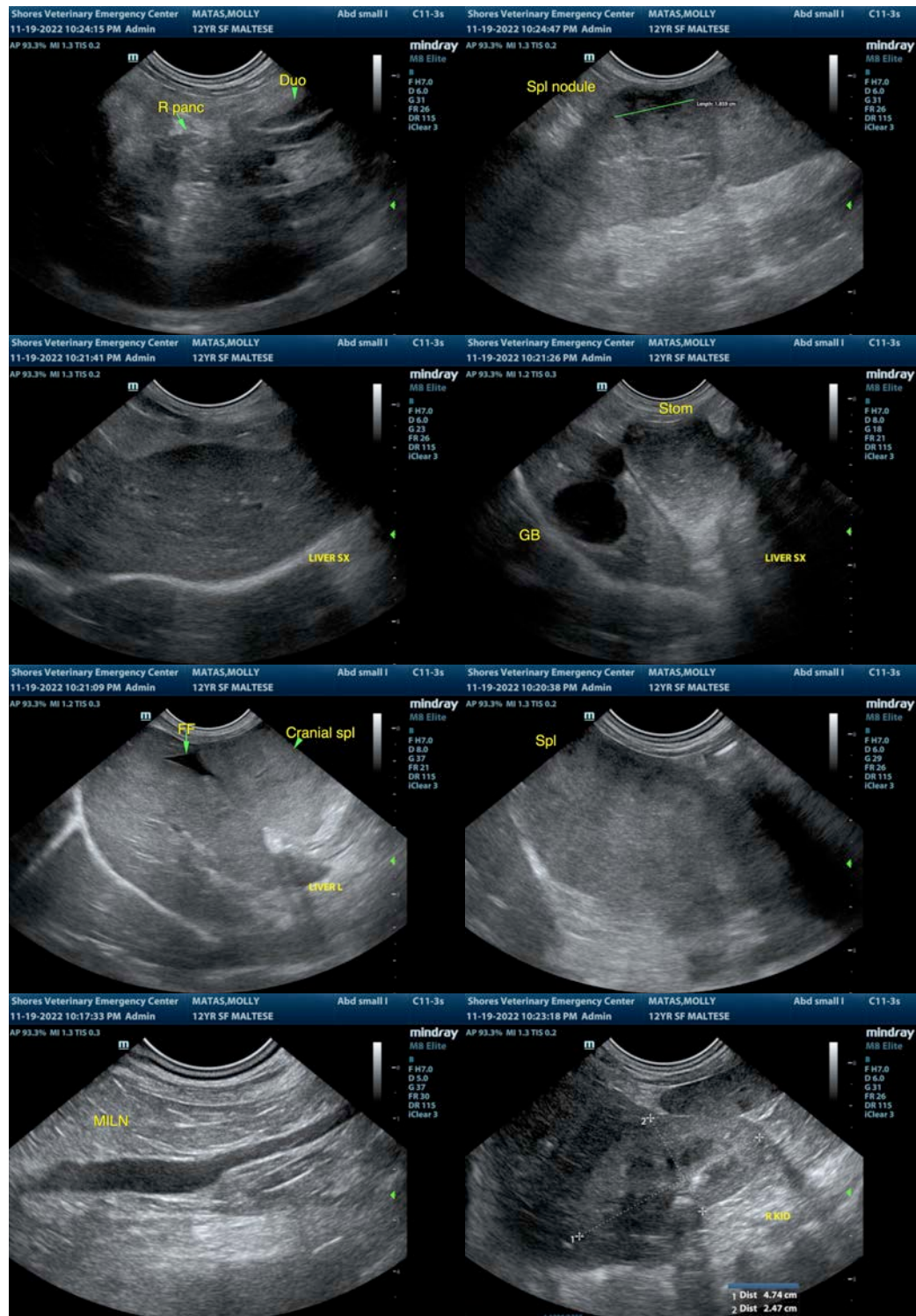
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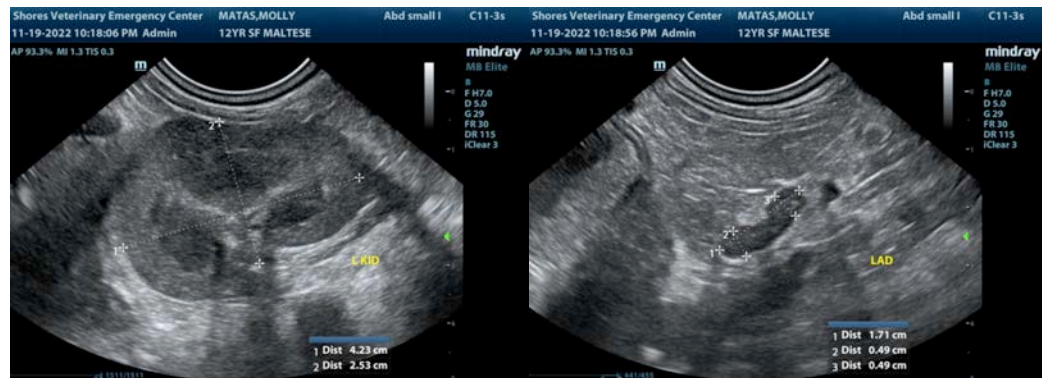
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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