



**PATIENT**

Millie Mullooly

**SPECIES**

Canine

**BREED**

Pitbull

**SEX**

FS

**AGE**

9 years

**WEIGHT**

55.5 lbs

**PRESENTING CLINICAL SIGNS**

Increased liver enzymes, peripheral lymphadenopathy

Abnormal PE/Chem/CBC/UA Results: Mono 1.53, Neu 1.43, Eos 0.03, RBC 9.03, HGB 21.4, PLT 11K, MPV 15.0, PCT 0.02%, ALKP 1695, ALT 711, Amyl 449, GGT 21, TBili 4.6, anemia, thrombocytopenia

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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 was noted.

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. The left kidney measured 6.7 cm in length. The right kidney measured 7.2 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 2.9 cm length x 0.68 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 3.0 cm length x 0.57 cm width at the caudal pole.

**Spleen**

The spleen presented generalized enlargement with reduced echogenicity and coarse echotexture. The capsule contour was rounded and asymmetrical or scalloped. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.

**Liver/ Gallbladder**

The liver exhibited generalized enlargement with symmetrical yet swollen hepatic contour. The hepatic parenchyma revealed diffuse reduced echogenicity compared to the spleen and renal cortical parenchyma with a mild coarse echotexture. Increased portal vein prominence was evident. Distinct masses or nodules were not evident. The hepatic and portal vasculature were normal in appearance. The gallbladder was normal in size with mildly prominent to echogenic gallbladder walls and mild luminal debris. The cystic and common bile ducts were normal.

**Gastrointestinal**

The stomach exhibited intact yet subjective mild thickened wall layering. The ventral gastric body wall subjectively measured 1.0 cm width. The stomach was primarily empty with mild luminal gas.

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 jejunum wall width measured 0.44 cm.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Jessica Miller

**HOSPITAL NAME**

Tranquility VC

**REFERRING VET**

Dr. Christensen

**INVOICE**

12758

**DATE**

12/7/21



## PATIENT

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

Millie Mullooly

## 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 were evident.

Canine

## BREED

## Free Abdomen

Pitbull

Multifocal abdominal lymph nodes were present. The lymph nodes exhibited symmetrical to rounded margination with abnormal width: length ratio (>0.5). The enlarged lymph nodes were bordered by echogenic to reactive mesentery. An example a hepatic lymph node measured 3.0 cm x 2.4 cm. An example of a medial Iliac lymph node measured 3.0 cm x 3.0 cm. A small pocket of scant free fluid was noted in the cranial abdomen between the cranial spleen and caudal left liver. Generalized reactive mesentery was present.

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FS

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## ULTRASONOGRAPHIC FINDINGS

## WEIGHT

55.5 lbs

## Primary Findings

- Hypoechoic hepatosplenomegaly
- Enlarged hypoechoic abdominal lymph nodes
- Subjective mild thickened stomach
- Scant peritoneal free fluid and generalized mild reactive mesentery

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## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Pending cytology and while sampling of the liver, spleen and enlarged abdominal lymph nodes are required for further clarification, the abdominal findings are strongly consistent with multicentric round cell neoplasia with primary concern for multicentric lymphoma. If neoplasia is not confirmed in a peripheral lymph node or in light of further staging, ultrasound-guided hepatosplenic FNA using a 25-gauge needle is recommended assuming normal clotting status with potential oncology consultation. Three view chest radiographs are recommended.

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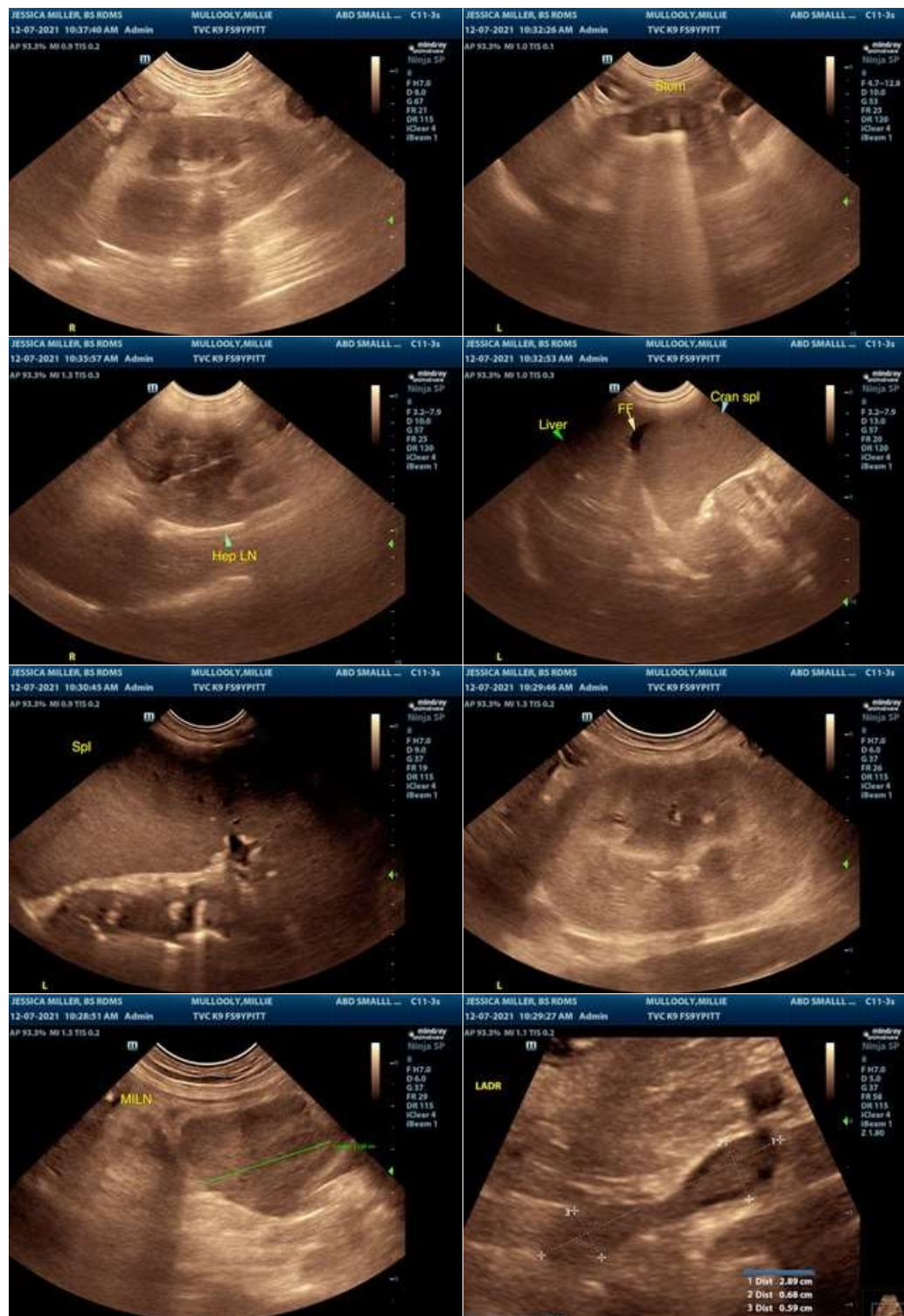
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



**PATIENT**

Millie Mullooly

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.

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