



**PATIENT PRESENTING CLINICAL SIGNS**

Leah Lemasters Possible CHF. Grade 4/6 murmur, chylothorax 4 days ago, tap ~300ml of chyle from chest. No current meds.

**SPECIES** Abnormal PE/Chem/CBC/UA Results: Elevated Neutrophil 9657- stress.

Feline

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED** *Urinary System*

DSH

The urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

**SEX**

Spayed Female

Kidneys are overall normal in size and shape with smooth peripheral margination. A normal 1:3 cortex to medulla ratio is maintained. The medulla and cortices are uniform in texture with some mild increased cortical echogenicity and mild loss of corticomedullary distinction, expected in this age patient. There is no evidence of pyelectasia, mineral or infarcts observed. The right kidney measures 3.84 cm. The left kidney measures 3.55 cm and has a cortical cyst.

**AGE**

~15 Years

*Adrenal Glands*

**WEIGHT**

8.25 Pounds

The right adrenal gland is normal in size (0.38 cm), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

The left adrenal gland is normal in size (0.36 cm), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

**INTERPRETED BY** *Spleen*

Beth Johnson, DVM  
DACVIM

The spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.

**IMAGING PERFORMED BY**

Jessica Miller

*Liver*

**HOSPITAL NAME**

Tranquility VC

The liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

**REFERRING VET**

Dr. Blackman

*Gastrointestinal*

**INVOICE**

42793

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

**DATE**

11/15/22

Diffusely, the visible small intestine demonstrates areas of thick muscularis layer relative to mucosa (disruption of the normal 1:3 muscularis:mucosa ratio). However, focally, in the mid abdomen, there is a loop of bowel with concentric complete loss of mural detail/loss of layering and thick hypoechoic wall. Small intestinal submucosa is slightly irregular, thick and hyperechoic, without evident loss of layering appreciated. The lumen is empty with no evidence of obstruction or foreign material.



**PATIENT**

Leah Lemasters The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

**SPECIES**

***Pancreas***

Feline

The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

**BREED**

DSH

***Free Abdomen***

There is no evidence of free peritoneal effusion noted in these images.

**SEX**

There is no apparent lymphadenopathy noted in these images.

Spayed Female

The mesentery/mesenteric fat appears diffusely hyperechoic.

**AGE**

~15 Years

Pleural effusion is noted.

**PRIMARY FINDINGS**

- Bowel mass – concerning for infiltrative neoplasia such as round cell neoplasia, i.e., lymphoma or potentially adenocarcinoma versus other, with diffusely changes that could be concurrent benign inflammatory disease and/or infiltrative neoplasia such as lymphoma.
- Diffusely enhanced hyperechoic mesenteric fat – suggestive of peritonitis, most appreciated around the bowel mass.
- Pleural effusion.

**WEIGHT**

8.25 Pounds

**SECONDARY FINDINGS**

- Age related kidney changes

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**IMAGING PERFORMED BY**

Jessica Miller

Management of this patient's pleural effusion/reported chylothorax/reported suspected cardiac disease, etc. is recommended first for patient stabilization. Following that, recommendations regarding the bowel mass include a gastrointestinal malabsorption panel (including cobalamin, folate, TLI and PLI) to Texas A&M GI Laboratory, and, if possible to reach safely, and patient's coagulation status is appropriate, a fine needle aspirate of the bowel mass. If a diagnosis cannot be obtained cytologically, surgical excisional biopsy/resection and anastomosis could be considered.

**HOSPITAL NAME**

Tranquility VC

**REFERRING VET**

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**PATIENT**

Leah Lemasters

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

~15 Years

**WEIGHT**

8.25 Pounds

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**IMAGING PERFORMED BY**

Jessica Miller

**HOSPITAL NAME**

Tranquility VC

**REFERRING VET**

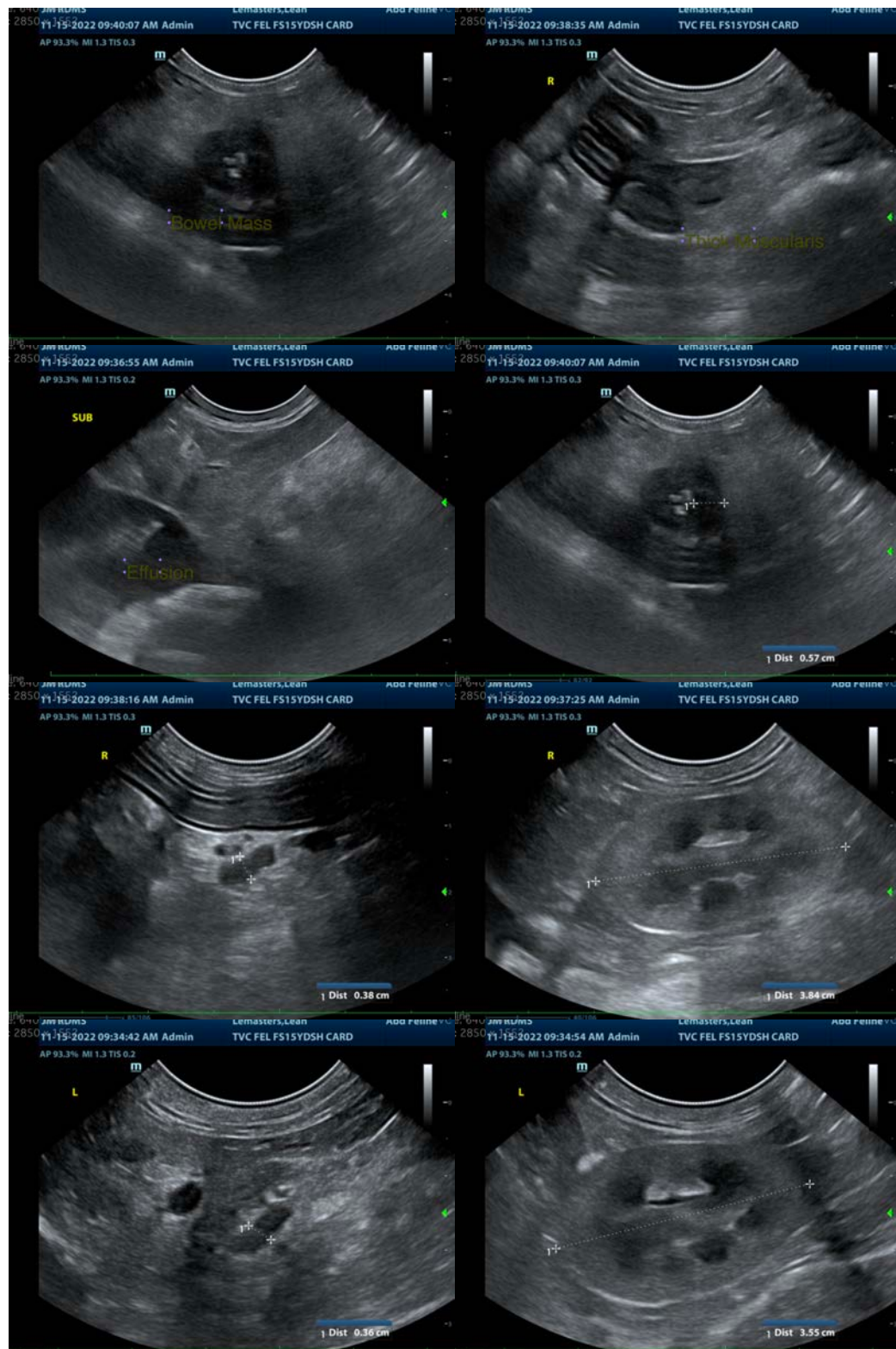
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**PATIENT**

Leah Lemasters

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.

**SPECIES**

Feline

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.

**Beth Johnson, DVM, DACVIM**

Beth.Johnson@sonopath.com

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

~15 Years

**WEIGHT**

8.25 Pounds

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

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PERFORMED BY**

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