



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Matchko Miller
SPECIES Acute wt loss, mod- severe hyporexia, lethargy and regurg, stomach full of material despite not eating was given gabapentin at 7 am before ultrasound was given 0.2mL IV torbugesic for additional sedation on tapazole TD 100mg/ml - 0.05ml BID

Feline Abnormal PE/Chem/CBC/UA Results: ALT - 158 (last month nml) , Creat 2.1 (last month - 1.9)

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

DSH **Urinary System**

SEX 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.

Neutered Male

AGE The right kidney is normal in size (3.94 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

12 Years

WEIGHT The left kidney is normal in size (4.02 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

12.2 Pounds

INTERPRETED BY

Adrenal Glands

Beth Johnson, DVM DACVIM The right adrenal gland is normal in size (0.24 cm), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

The area of the left adrenal gland is examined without evident pathology.

IMAGING PERFORMED BY

Spleen

Heather

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). Multifocal well-demarcated hyperechoic homogenous nodules are noted. Splenic vasculature appears normal.

HOSPITAL NAME

Liver

ACC Flanders

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.

REFERRING VET

Dr. Casulli/Dr. Hallihan

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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.

46118

DATE

Gastrointestinal

3/23/23

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. **The appearance of the stomach contents are most consistent with ingesta. However, there is some mild progressive shadowing that could indicate a small hairball.



PATIENT

Matchko Miller

The visible small intestine demonstrates areas of thick muscularis layer relative to mucosa (disruption of the normal 1:3 muscularis:mucosa ratio). 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.

SPECIES

Feline

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

BREED

Pancreas

DSH

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.

SEX

Neutered Male

Free Abdomen

AGE

12 Years

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

There is no apparent lymphadenopathy noted in these images.

WEIGHT

12.2 Pounds

There is no evidence of heart base or pericardial pathology noted in these images at this time. If cardiac function evaluation is desired a full echocardiogram is recommended.

PRIMARY FINDINGS

INTERPRETED BY

Beth Johnson, DVM
DACVIM

- **Inflammatory bowel disease (IBD) pattern** – Thick muscularis has been reported with infiltrative bowel disease including both benign inflammatory disease as well as infiltrative neoplasia such as lymphoma. No aggressive lymphadenopathy, loss of layering, etc. is noted to make lymphoma more probable, but lymphoma cannot be definitively ruled out without tissue sampling.

IMAGING PERFORMED BY

Heather

- The appearance of the stomach is most consistent with normal ingesta and gas, potentially some delayed gastric emptying secondary to the suspected infiltrative bowel disease. Having said that, given this patient's reported inappetence, a hairball or other foreign material can't be definitively ruled out. However, if present, there is not an obstructive pattern to suggest obstruction.

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ACC Flanders

SECONDARY FINDINGS

- **Hyperechoic splenic nodules** – most consistent with benign myelolipomas. Other differentials such as fibrosis or calcification caused by old hematomas or infarcts, chronic inflammation, granulomatous disease or metastatic disease cannot be ruled out, but are considered less likely.

REFERRING VET

Dr. Casulli/Dr. Hallihan

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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Given this patient's increased creatinine, ruling out prerenal versus renal is recommended if not already evaluated, beginning with a urinalysis and, if indicated based on urinalysis results, urine culture. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ratio is recommended.

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Additionally, given the weight loss and the mildly increased ALT, ruling out hyperthyroidism is recommended in the form of a T4/free T4.

Additionally, a gastrointestinal malabsorption panel (including cobalamin, folate, TLI and PLI) to Texas A&M GI Laboratory is recommended for further evaluation of GI and pancreatic function.



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Ideally, biopsies of the GI tract, being sure to include ileum if possible, are recommended to definitively diagnose and therefore manage the infiltrative bowel disease.

SPECIES

Feline

If biopsies cannot be obtained, empirical therapies could include diet change, empirical deworming with a 5 day course of Panacur, cobalamin supplementation (unless cobalamin level is evaluated and supplementation is not warranted) and prednisolone (if not contraindicated based on patient contraindications, co-morbidities, etc.). Other supportive therapeutic considerations could include fiber supplementation, especially with large bowel diarrhea and/or a probiotic.

BREED

DSH

If vomiting/regurgitation persists despite inappetence or fasting and supportive care, then recheck imaging of the stomach would be recommended, or additionally, different imaging modality such as barium swallow or even upper GI gastroscopy could be considered, and if endoscopy is elected, biopsies of the stomach and small bowel should be obtained at the same time.

SEX

Neutered Male

AGE

12 Years

WEIGHT

12.2 Pounds

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Heather

HOSPITAL NAME

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REFERRING VET

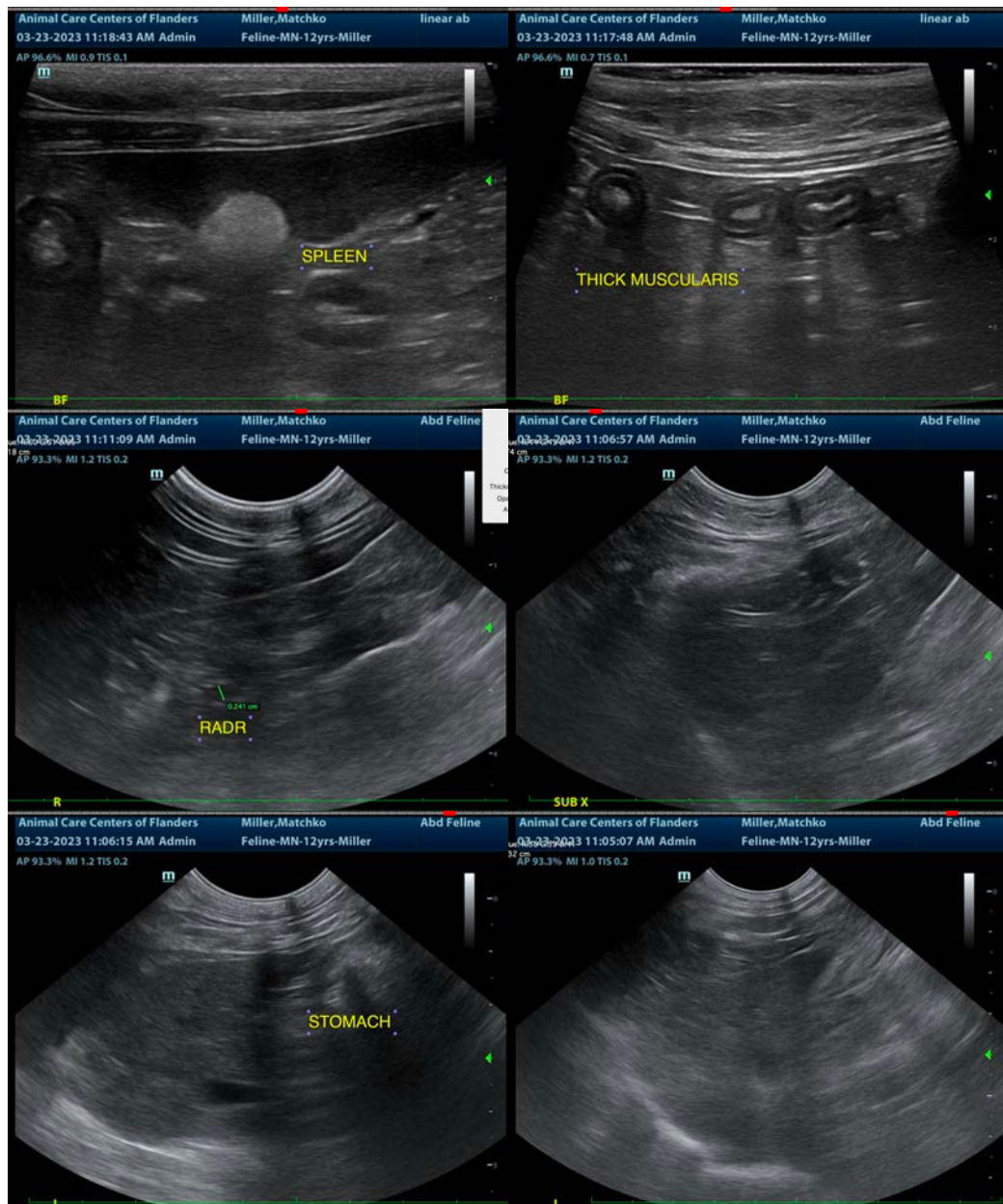
Dr. Casulli/Dr. Hallihan

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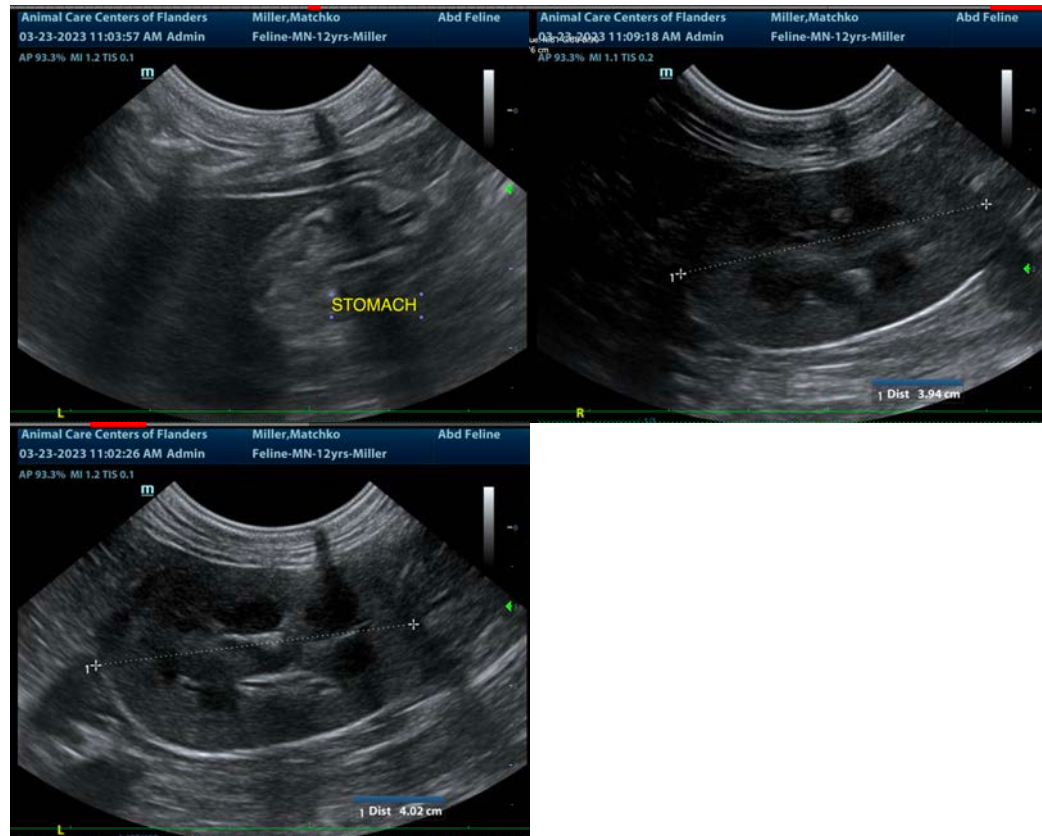
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM, DACVIM
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