



PATIENT

Ralphie Peiffer

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Neutered male

AGE

9 ½ years

WEIGHT

11 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Todd

HOSPITAL NAME

Lambs Gap AH

REFERRING VET

Dr. Knouse

INVOICE

98000

DATE

4/1/22

PRESENTING CLINICAL SIGNS

History: Ralphie was seen 1/8/22 for not eating and hiding with intermittent vomiting, he was given cerenia, bloodwork revealed mild pancreatitis (fpl 4.8) but bloodwork was otherwise unremarkable. He was vaccinated for rabies 1/11/22 and had a dental 1/19/22 with 1 extraction. Cerenia helps vomiting when he is able to get in, for about 72 hours. On 3/28 p was not eating like himself and vomited so a cerenia injection was given, mirataz ointment was given to use as needed, and profender was applied to deworm. Ralphie has lost over 2 lbs since January. B12, folate, tli levels are to be drawn today while fasted.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** presented a relatively uniform cortical hyperechogenicity when compared to the renal medulla, spleen and liver. No overt masses were noted. Corticomedullary definition was nebulous and the ratio favored the cortex slightly. The ureters were not visible and assumed to be normal. These changes are most consistent with chronic interstitial nephritis yet infiltrative disease could not be entirely ruled out without biopsy though neoplasia is not suspected. Pelvic mineralization was noted. The left kidney measured 2.77 cm with a subcapsular halo with ill-defined, expansive, undifferentiated tissue. The right kidney was enlarged and slightly irregular in contour. The right kidney measured 4.58 cm.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 0.72 x 0.3 cm.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

Liver

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with



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primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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Gastrointestinal

The **gastrointestinal** presentation revealed mild uniform prominence of the gastric mucosa as well as areas of "ropey" small intestinal wall with slight disruption of the normal 1:3 muscularis/mucosal ratio. The intestinal submucosa was slightly irregular, thickened and hyperechoic suggestive of low grade, chronic disease. There were areas of loss of mural detail. The mesenteric lymph nodes presented normal length to width ratio with slight, swollen contour. The lymph nodes measured up to 1.0 cm. There was no loss of parenchymal detail. This is most consistent with reactive lymphadenitis or lymphatic hyperplasia.

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Pancreas

The **pancreas** was hypoechoic and irregular with undulating contour.

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ULTRASONOGRAPHIC FINDINGS

There is a strong concern for multi-centric, emerging lymphoma involving the left kidney +/- right kidney, possibly spleen and likely intestine and likely lymph node.

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Eric Lindquist, DMV
DABVP, Cert. IVUS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Ultrasound-guided FNA of the accessible structures are recommended for further definition. This is a fairly early phase and if lymphoma is confirmed then chemotherapeutic intervention may allow for significant quality of life in this patient.

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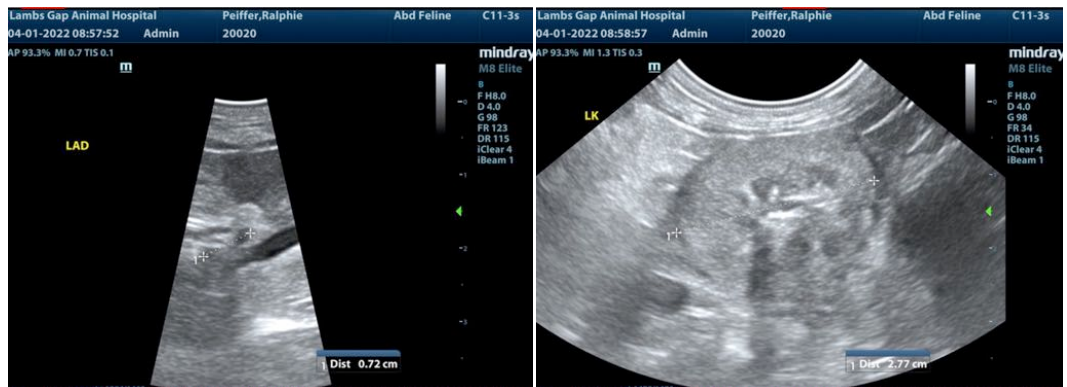
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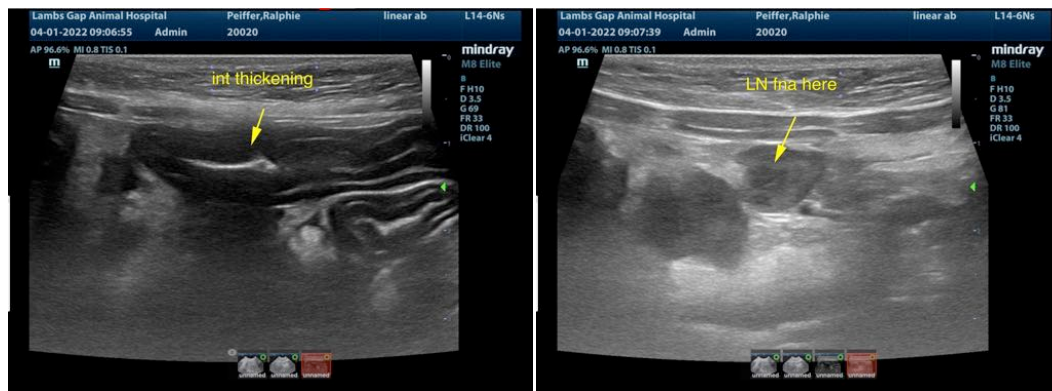
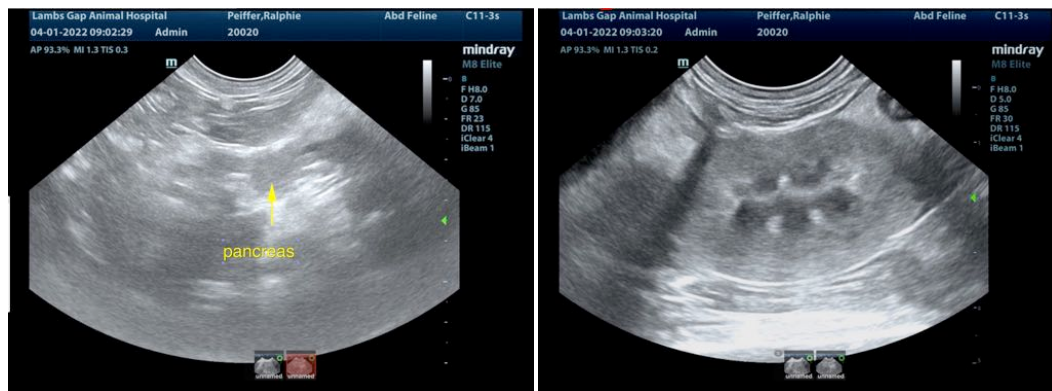
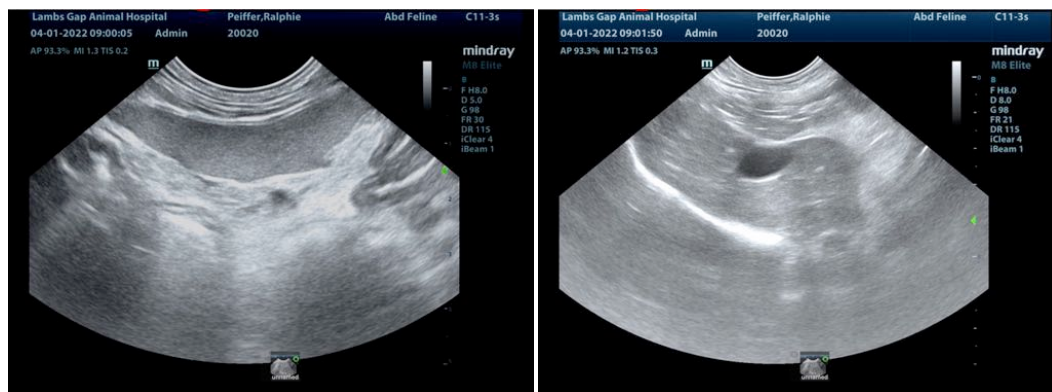
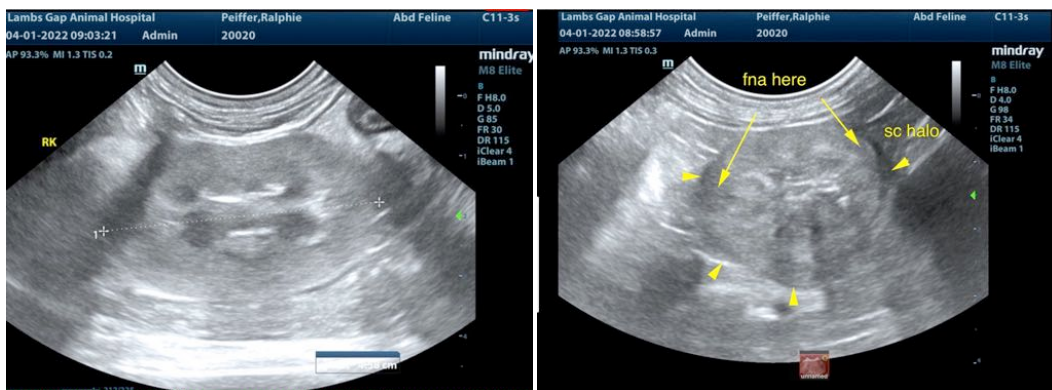
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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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info@SonoPath.com

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