



PATIENT

Peluche Salas

PRESENTING CLINICAL SIGNS

History: Patient presents for diarrhea. Treated with Cerenia 16mgs 1/4 tab SID for 4 days stopped on 5th, repeat if necessary.
Abnormal PE/Chem/CBC/UA Results: Diag: BUN 41.1, Glob 4.9 (from 5/7/22).

SPECIES

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Domestic Shorthair

Urinary System

The urinary bladder is well distended with anechoic contents. The wall is smooth and regular. No abnormalities are noted with the trigone or proximal urethra, and there is no evidence of sediment, cystoliths, polyps or a mass.

SEX

Neutered male

Kidneys

AGE

12 years

The **left** kidney measures 3.42 cm (3.80-4.40 cm). The capsule is smooth. The cortex is hyperechoic and a loss of the normal definition of the cortico-medullary junction is present. Two to three hyperechoic structures, creating mild acoustic shadows are noted. The structures measure 6.5 mm, 3.7 mm and 6.8 mm, and are suggestive of nephroliths. Blood flow is adequate. The surrounding mesentery is not hyperechoic.

WEIGHT

The **right** kidney measures 3.73 cm (3.80-4.40 cm). The capsule is smooth. The cortex is hyperechoic, i.e., it is hyperechoic to the liver. A loss of the normal definition of the cortico-medullary junction is present. There are no signs of nephroliths or pyelectasia. Blood flow is adequate. The surrounding mesentery is severely hyperechoic.

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

Aortic bifurcation/trifurcation

No abnormalities observed.

IMAGING PERFORMED BY

Kelly Vazquez, CVT

Adrenal Glands

The **left** adrenal gland measures 0.19 cm at the cranial pole, 0.17 cm at the caudal pole and 0.61 cm in length. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

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The **right** adrenal gland measures 0.24 cm at the cranial pole and 0.76 cm in length. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

REFERRING VET

Dr. ElShafie

Spleen

INVOICE

31280

The spleen is within normal limits in size 9.4 mm (normal = 10 mm), echotexture, and echogenicity. The capsule is smooth, but mildly "swollen". A diffuse "lacy" appearance or "honeycomb" pattern of the parenchyma is observed. No abnormalities are observed with its vasculature, i.e. congestion and thrombi are not identified.

DATE

6/27/22



PATIENT	Liver
Peluche Salas	There are no obvious signs of hepatomegaly and its borders are smooth, but mildly rounded. The liver appears diffusely hypoechoic. It is hypoechoic to the surrounding mesentery. Its echotexture is homogeneous. Focal lesions are not observed and no abnormalities are observed with the hepatic vessels.
SPECIES	
Feline	The gallbladder (GB) is moderately distended with a small amount of free floating echogenic material. The GB wall is within normal limits in thickness and echogenicity. The portions of the cystic and/or common bile ducts observed are not dilated or tortuous, i.e. there are no signs of an obstruction.
BREED	
Domestic Shorthair	
	Gastrointestinal
SEX	The gastric wall is thickened with loss of wall layering, as well areas of hypoechoogenicity.
Neutered male	The duodenum is thickened at 0.32 cm. Severe fogging of the mucosa is observed, in addition to loss of the normal definition of the wall layers. The mesentery surrounding the duodenum is severely hyperechoic.
AGE	
12 years	Many of the small intestines are thickened, measuring up to 0.57 cm. Presence of fogging of the mucosa and increased prominence of the submucosa are present in many segments of jejunum. While other segments of small intestines show well defined wall layers, the mucosa and muscularis are thickened.
WEIGHT	
	An intestinal mass with severe thickening of the muscularis is observed. The hypo- to anechoic intestinal wall measures 1.18 cm – 2.15 cm. The muscularis measures 0.76 cm.
	The colonic wall is thickened at 0.33 cm. The mural detail is considered normal, however the submucosa is prominent. Gas is present within the colon.
INTERPRETED BY	
Lisa Carioto, DVM, DVSc, Diplomate ACVIM	Pancreas
	An in-depth evaluation of the pancreas is not possible due to the gas in the surrounding GI tract, hyperechogenicity of the mesentery and lymphadenomegaly.
IMAGING PERFORMED BY	
Kelly Vazquez , CVT	Other
HOSPITAL NAME	Lymph nodes
Animal Paradise Hospital	A cavitory mass measuring 1.00 cm in diameter x 1.66 cm in length is identified. It is mildly vascularized when evaluated with colour Doppler.
REFERRING VET	
Dr. ElShafie	Other enlarged, moderately to severely hypoechoic lymph nodes are observed ventral to the spleen, 0.70 cm in diameter x 1.02 cm in length.
	Mesenteric lymph node: Moderately enlarged, severely hypoechoic, 1.43 cm in diameter x 4.87 cm in length.
INVOICE	
31280	Multiple lymph nodes medial to the left kidney are enlarged, rounded and hypoechoic. The surrounding mesentery is hyperechoic.
DATE	
6/27/22	Mass



PATIENT	A mass effect, measuring 1.70 cm in diameter x 3.88 cm in length is observed. It appears septated, creating an image of a cluster of grapes. The surrounding mesentery is moderately hyperechoic. The structure is vascularized at its “root”, which is suggestive of lymph nodes at the mesenteric root.
Peluche Salas	
SPECIES	Mesentery
Feline	The mesentery surrounding the GI tract is diffusely hyperechoic.
BREED	Multiple, small hypoechoic nodules, are observed amongst the hyperechoic mesentery.
Domestic Shorthair	
SEX	Abdominal effusion
Neutered male	A scant amount of anechoic fluid is visualized in the region of the liver and gallbladder.
AGE	ULTRASONOGRAPHIC FINDINGS
12 years	<ul style="list-style-type: none"> • Gastrointestinal tract: Infiltrative disease is highly suspected. Lymphoma or other round cell tumour is suspected. Adenocarcinoma is considered less likely. • Spleen: A diffuse “lacy” parenchymal appearance is observed. This finding is highly suggestive of infiltrative disease, such as lymphoma or other round cell tumour. • Lymph nodes: A single cystic lymph node is observed, which may be due chronic lymphadenitis, however, the remaining lymph nodes are more consistent with neoplasia. • Mesentery: The mesentery surrounding the GI tract is diffusely hyperechoic, which is consistent with steatitis (inflammation). Lymphomatosis or carcinomatosis is suspected. • Liver: The liver is diffusely hypoechoic, which is suggestive of lymphoma. • Kidneys: Bilateral renal changes are suggestive of age-related degeneration. Nephroliths are observed in the left kidney. Very mild pyelectasia of the right kidney may be due to pu/pd, however, pyelonephritis cannot be excluded. There are no signs of an obstruction.
WEIGHT	
INTERPRETED BY	
Lisa Carioto, DVM, DVSc, Diplomate ACVIM	
IMAGING PERFORMED BY	
Kelly Vazquez , CVT	
HOSPITAL NAME	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Animal Paradise Hospital	Results of the fine needle aspirates of the lymph nodes and gastrointestinal mass are pending.
REFERRING VET	Analgesia is strongly recommended, for example, buprenorphine (0.005 mg/kg – 0.01 mg/kg sublingually every 8 – 12 hours).
Dr. ElShafie	vitamin B12 250 ug/injection – one dose to start and to re-assess depending on clinical status.
INVOICE	Urinalysis and urine culture may be considered to exclude subclinical pyelonephritis.
31280	Further recommendations may be made once the results have been received.
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REFERRING VET

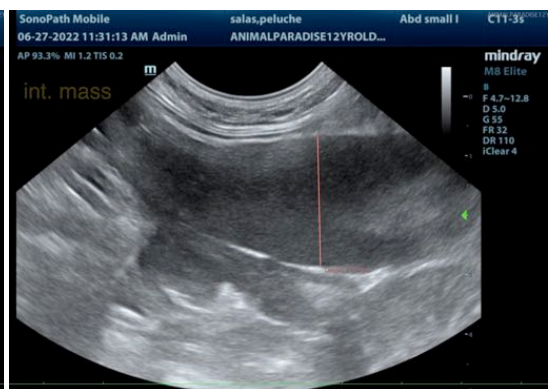
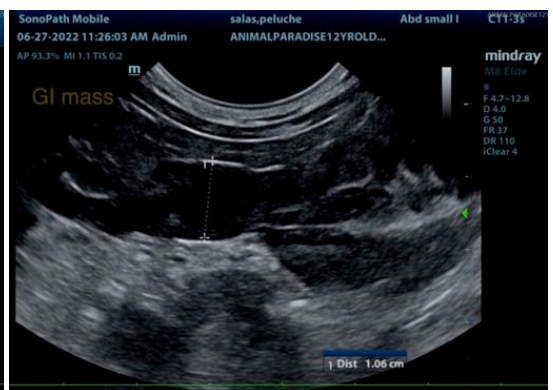
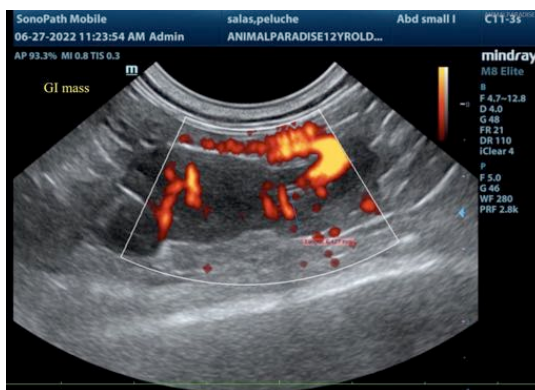
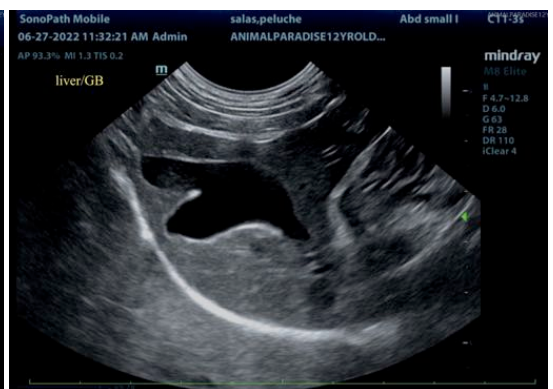
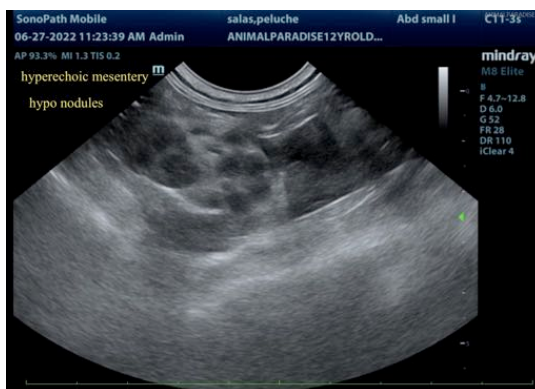
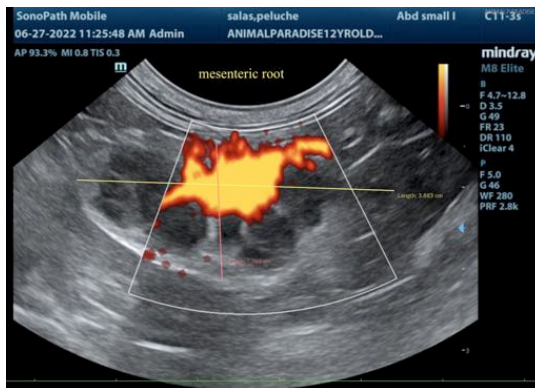
Dr. ElShafie

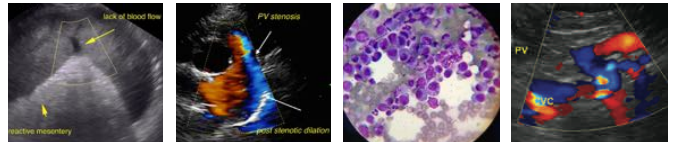
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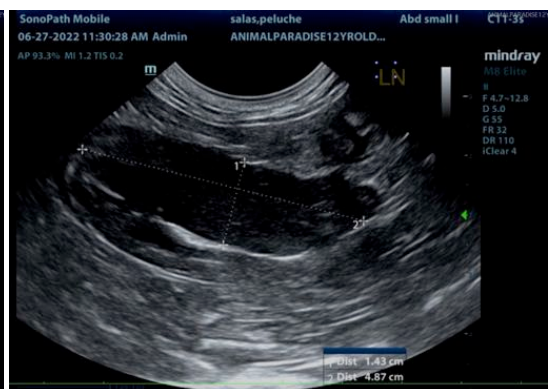
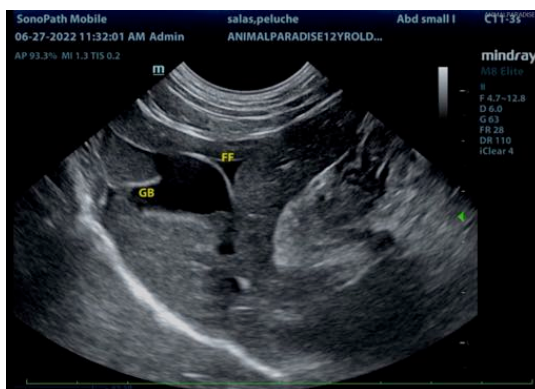
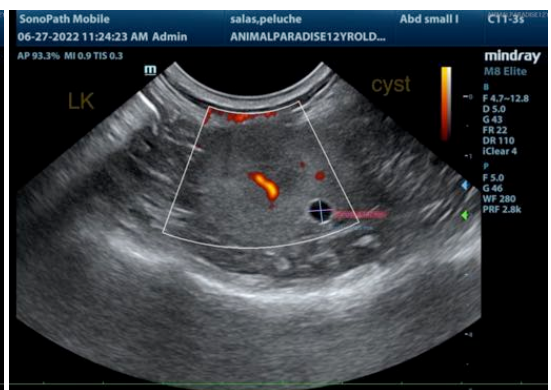
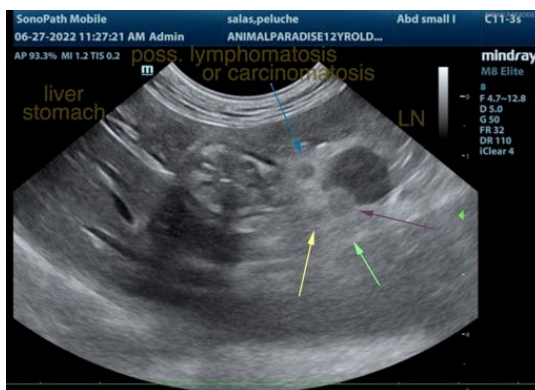
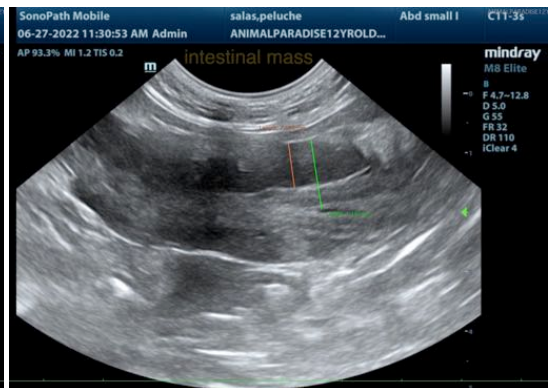
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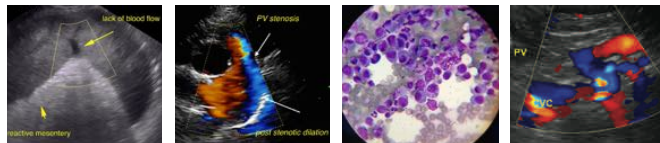
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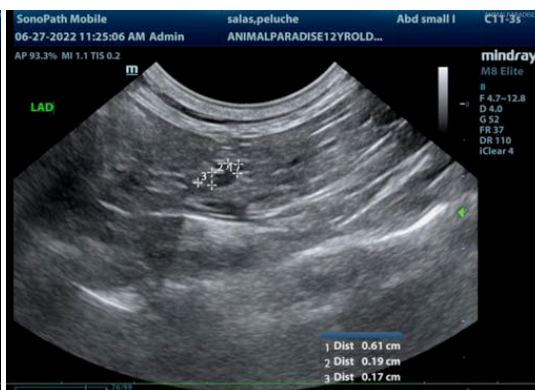
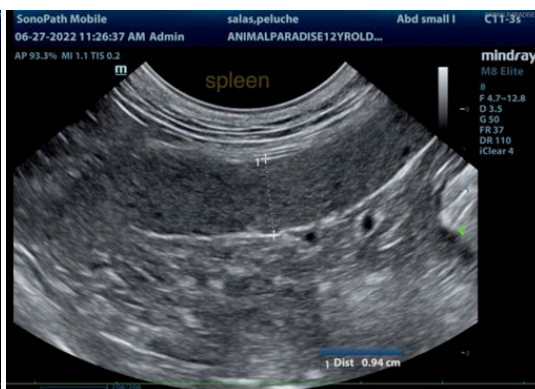
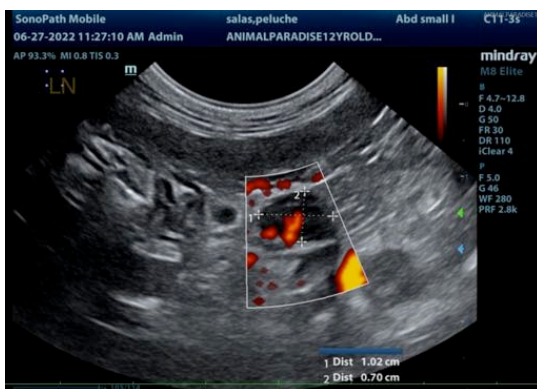
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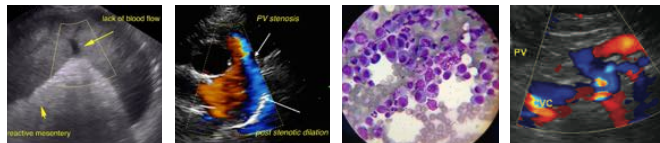
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

BREED

Domestic Shorthair

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

Lisa.Carioto@sonopath.com

SEX

Neutered male

AGE

12 years

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