



PATIENT

Cookie Mack

PRESENTING CLINICAL SIGNS

Two cutaneous mast cell tumors found on exam. Staging prior to surgery. Clinically doing well.
Abnormal PE/Chem/CBC/UA Results: 4 & 8 mm raised cutaneous masses CBC/Chem/T4 WNL

SPECIES

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Domestic Shorthair

The urinary bladder is adequately distended with anechoic contents. The wall is smooth and regular. No abnormalities are present with the trigone or proximal urethra. A small amount of free floating sediment is present, some of which has “aggregated” together and developed into very hyperechoic “nodules”. However, there is no evidence of cystoliths, polyps or a mass.

SEX

Spayed Female

Kidneys

AGE

9 years

The **left** kidney measures 3.47 cm (3.80-4.40 cm); mildly decreased. The capsule is very mildly bossilated (irregular). A mild loss of the normal definition of the cortico-medullary junction is present. Very mild mineralization of the diverticulae and pelvis are present, without evidence of nephroliths or pyelectasia. An accumulation of intrapelvic fat is noted. The surrounding mesentery is not hyperechoic.

WEIGHT

11.4 lbs

The **right** kidney measures 3.95 cm (3.80-4.40 cm). The capsule is smooth. A mild loss of the normal definition of the cortico-medullary junction is present. Very mild mineralization of the diverticulae and pelvis are present, without evidence of nephroliths or pyelectasia. An accumulation of intrapelvic fat is noted. The surrounding mesentery is not hyperechoic.

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

Aortic bifurcation/trifurcation

No abnormalities observed.

IMAGING PERFORMED BY

Dr. Ertunc

Adrenal Glands

The **left** adrenal gland measures 0.35 cm at the cranial pole, 0.38 cm at the caudal pole and 1.09 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.

HOSPITAL NAME

Healing Spirit

The **right** adrenal gland is not visualized, however, no abnormalities are visualized in the area where it should be located.

REFERRING VET

Dr. Ertunc

Spleen

The spleen is within normal limits in size 6.2 mm (normal = 10 mm), echotexture, and echogenicity. The capsule is smooth. No abnormalities are observed with its vasculature, i.e. congestion and thrombi are not identified.

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Liver



PATIENT	There are no obvious signs of hepatomegaly and its borders are smooth and sharp to mildly rounded. The liver's echotexture is homogeneous. Echogenicity is within normal limits to very mildly hyperechoic (right liver). Mild perivascular cuffing consistent with deposition of fat, possible fibrosis and mineralization, is observed. No abnormalities are observed with the larger hepatic vessels visualized.
Cookie Mack	
SPECIES	The gallbladder wall is within normal limits in thickness and echogenicity. There is no evidence of echogenic material within the GB or edema surrounding it. The cystic duct is not dilated, i.e. there are no signs of an obstruction. Note, it is very mildly tortuous as it exits the GB, however, this is normal in some cats and there are no other signs suggestive of cholecystitis.
Feline	
BREED	
Domestic Shorthair	
	<i>Gastrointestinal</i>
SEX	The gastric wall is within normal limits in thickness and the wall layers are well defined. No obvious abnormalities are observed with its peristalsis.
Spayed Female	
AGE	The small intestinal wall thickness is within normal limits, however, fogging of the mucosa and muscularis is present. The muscularis is also thickened. Furthermore, the definition of some of the wall layers is not as "crisp" in some of the loops of bowel. Abnormally dilated loops of bowel are not observed.
9 years	
	The colonic wall is not thickened and mural detail is considered normal.
WEIGHT	
11.4 lbs	
	<i>Pancreas</i>
INTERPRETED BY	Both limbs have a mildly coarse echotexture and are mildly heterogeneous. Hyperechoic areas of various size are dispersed haphazardly throughout its parenchyma. Differential diagnoses include fibrosis due to previous episodes of pancreatitis, ischemia or amyloid deposition. Signs of active pancreatitis or neoplasia are not appreciated.
Lisa Carioto, DVM, DVSc, Diplomate ACVIM	
IMAGING PERFORMED BY	<i>Other</i>
Dr. Ertunc	Lymph nodes
	The mesenteric lymph nodes in the region of the ileo-cecal-colic junction are within normal limits.
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Healing Spirit	Abdominal effusion is not visualized.
REFERRING VET	ULTRASONOGRAPHIC FINDINGS
Dr. Ertunc	<ul style="list-style-type: none"> There are no signs of splenic abnormalities to suggest mast cell tumour invasion, i.e. there are no signs of neoplasia. However, it should be noted that some cats with metastases do not show changes in the echotexture of the spleen. The very subtle hyperechogenicity of certain lobes of the liver may be clinically insignificant. Other possible causes include subclinical cholangitis/cholangiohepatitis. That is, there are changes noted with Cookie's intestines that are suggestive of inflammation, for example, inflammatory bowel disease. Therefore, she may be suffering from subclinical immune-
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PATIENT

Cookie Mack

mediated IBD and cholangitis/cholangiohepatitis. She may have also experienced previous episodes of pancreatitis based on its appearance.

SPECIES

Feline

- As mentioned above, the gastrointestinal changes observed may be due to inflammation resulting from inflammatory bowel disease. Infiltrative disease, such as lymphoma or other round cell tumour remains possible, but is considered less likely. *Please interpret these findings in light of the complete clinical picture. For example, is there a history of chronic vomiting, decreased appetite or intermittent diarrhea.*

BREED

Domestic Shorthair

- Hyperechoic areas of various size are dispersed haphazardly throughout the pancreas. Differential diagnoses include fibrosis due to previous episodes of pancreatitis, ischemia or amyloid deposition. Signs of active pancreatitis or neoplasia are not appreciated.

SEX

Spayed Female

- The free floating sediment within the lumen of the urinary bladder is most likely composed of mucus, crystalline material and exfoliated cells. The debris is likely clinically insignificant given the lack of inflammatory changes to the bladder wall, however, findings should be correlated with clinical signs and a urinalysis.

AGE

9 years

- Mild renal changes are present, which are suggestive of age related degeneration.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

11.4 lbs

There are no obvious signs of metastatic disease of the cutaneous mast cell tumours on today's abdominal ultrasound. Further diagnostics are not suggested. Depending on histopathology, one could consider performing thoracic radiographs (three views) to assess the sternal lymph nodes.

INTERPRETED BY

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

A urinalysis is suggested.

A baseline SDMA and arterial blood pressure are also suggested based on the mild renal changes observed.

IMAGING PERFORMED BY

Dr. Ertunc

Further evaluation of Cookie's history is suggested regarding possible signs of IBD, cholangitis/cholangiohepatitis and pancreatitis ("triaditis"). A hypoallergenic diet and deworming may be considered depending on her history.

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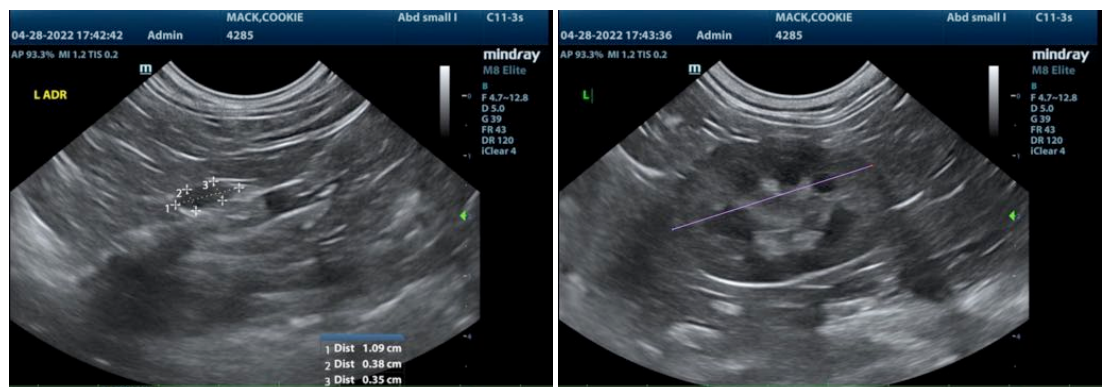
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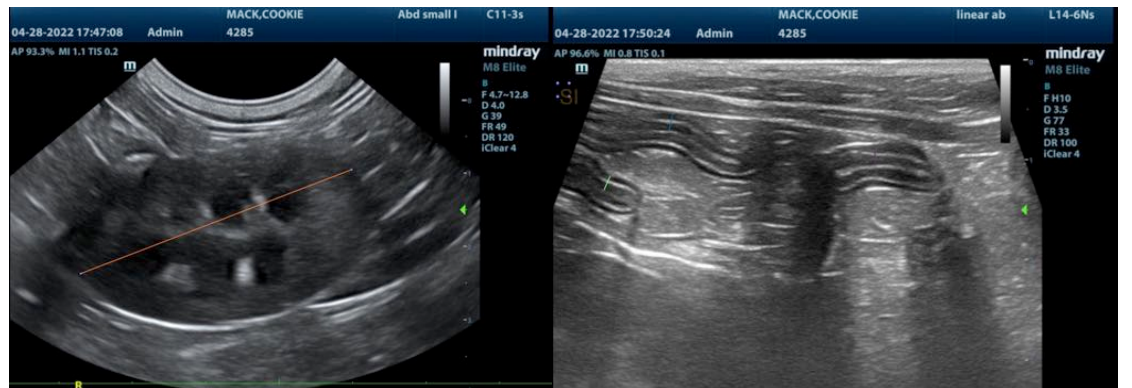
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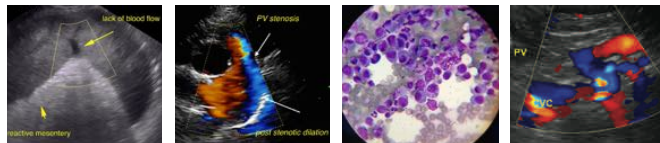
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Spayed Female

AGE

9 years

WEIGHT

11.4 lbs

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