



**PATIENT**

Cupcake Reber

**SPECIES**

Feline

**BREED**

DMH

**SEX**

Neutered Male

**AGE**

12 Years 3 Months

**WEIGHT**

4.11 kg

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Donna Markland, DVM

**HOSPITAL NAME**

Island Mobile Paws

**REFERRING VET**

Harbour City AH

**INVOICE**

41934

**DATE**

10/9/22

**PRESENTING CLINICAL SIGNS**

Cupcake presented for weight loss and a decreased appetite. He is otherwise normal at home. He is on Solensia for osteoarthritis. PE was unremarkable. CBC/Chem/UA results are reported below. Abnormal PE/Chem/CBC/UA Results: September 28, 2022 CBC: WBC=17.4 (2.4-12.5)

Platelets=219 (300-700) Neutrophils=13.22 (2.1-8.0) Eos=1.04 (0.0-1.00) Chem: wnl UA: usg=1.050 protein=0.3 WBC=0-3 RBC=negative Crystals: Few Crystal type: triple phosphate

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Very minor particulate sediment noted, which may indicate minor cellular debris/protein, crystalline debris, or mucus. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

The area of the aortic trifurcation was free of pathology.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 3.6 cm. The right kidney measured 4.2 cm.

**Adrenal Glands**

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.39 cm. The right adrenal gland measured 0.43 cm.

**Spleen**

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

**Liver**

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non distended in size with mild, non-dependent, mildly echogenic debris. No evidence of gallbladder or peripheral gallbladder inflammatory criteria. The cystic duct and common bile ducts were normal without evidence of dilation.

**Gastrointestinal**

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

The small intestine presented intact wall layering with segmental maintained 1:3 muscularis/mucosa ratio, yet concurrent segmental propensity for mild mural thickening and concurrent mildly prominent muscularis layer. No evidence of intestinal masses or loss of intestinal wall layering. Small intestinal wall width measured 0.25-0.35 cm.

Normal visible colon wall layers were present with apparent formed feces in lumen.



**PATIENT**

Cupcake Reber

**SPECIES**

Feline

**BREED**

DMH

**SEX**

Neutered Male

**AGE**

12 Years 3 Months

**WEIGHT**

4.11 kg

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Donna Markland, DVM

**HOSPITAL NAME**

Island Mobile Paws

**REFERRING VET**

Harbour City AH

**INVOICE**

41934

**DATE**

10/9/22

**Pancreas**

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

**Free Abdomen**

Intermittent, mildly prominent to enlarged mesenteric nodes were present. Example measured 0.54 cm diameter. The lymph node was essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5).

No effusion. No omental masses.

**PRIMARY FINDINGS**

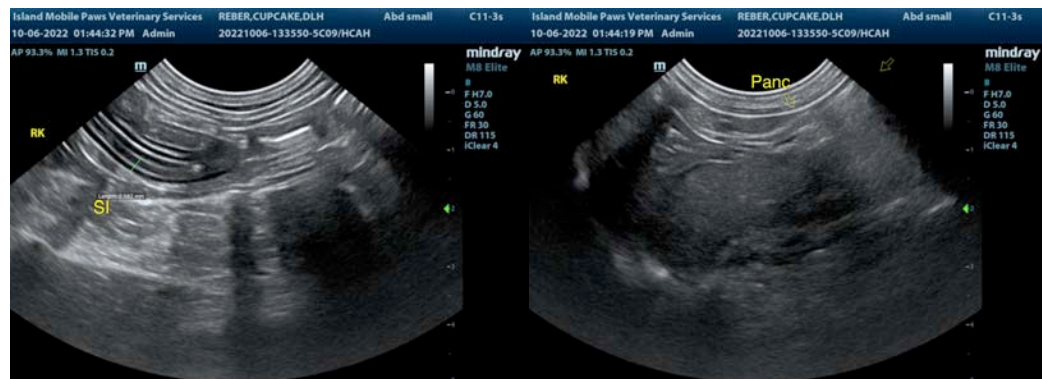
- Segmental subjective IBD intestinal pattern with concurrent subjectively benign/reactive mesenteric lymphadenopathy.

**SECONDARY FINDINGS**

- Mild gallbladder debris – likely incidental, given no evidence of cholestasis, potentially secondary to fasting.
- Mild chronic renal changes
- Minor urinary bladder sediment

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Given the patient's weight loss, GI panel to include PLI, TLI, cobalamin and folate warranted. Full thickness intestinal biopsies would be required for definitive diagnosis. Minor potential for very early low-grade neoplastic infiltrative enteropathy with round cells (i.e., low-grade lymphoma) may present in similar sonographic manner and cannot be definitively excluded. Empirically, as needed gastrointestinal support and empirical IBD protocol pending GI panel results would be reasonable if intestinal biopsies are not possible or elected. If not done, 3-view chest radiographs suggested to rule out occult thoracic pathology as a contributing factor.





**PATIENT**

Cupcake Reber

**SPECIES**

Feline

**BREED**

DMH

**SEX**

Neutered Male

**AGE**

12 Years 3 Months

**WEIGHT**

4.11 kg

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Donna Markland, DVM

**HOSPITAL NAME**

Island Mobile Paws

**REFERRING VET**

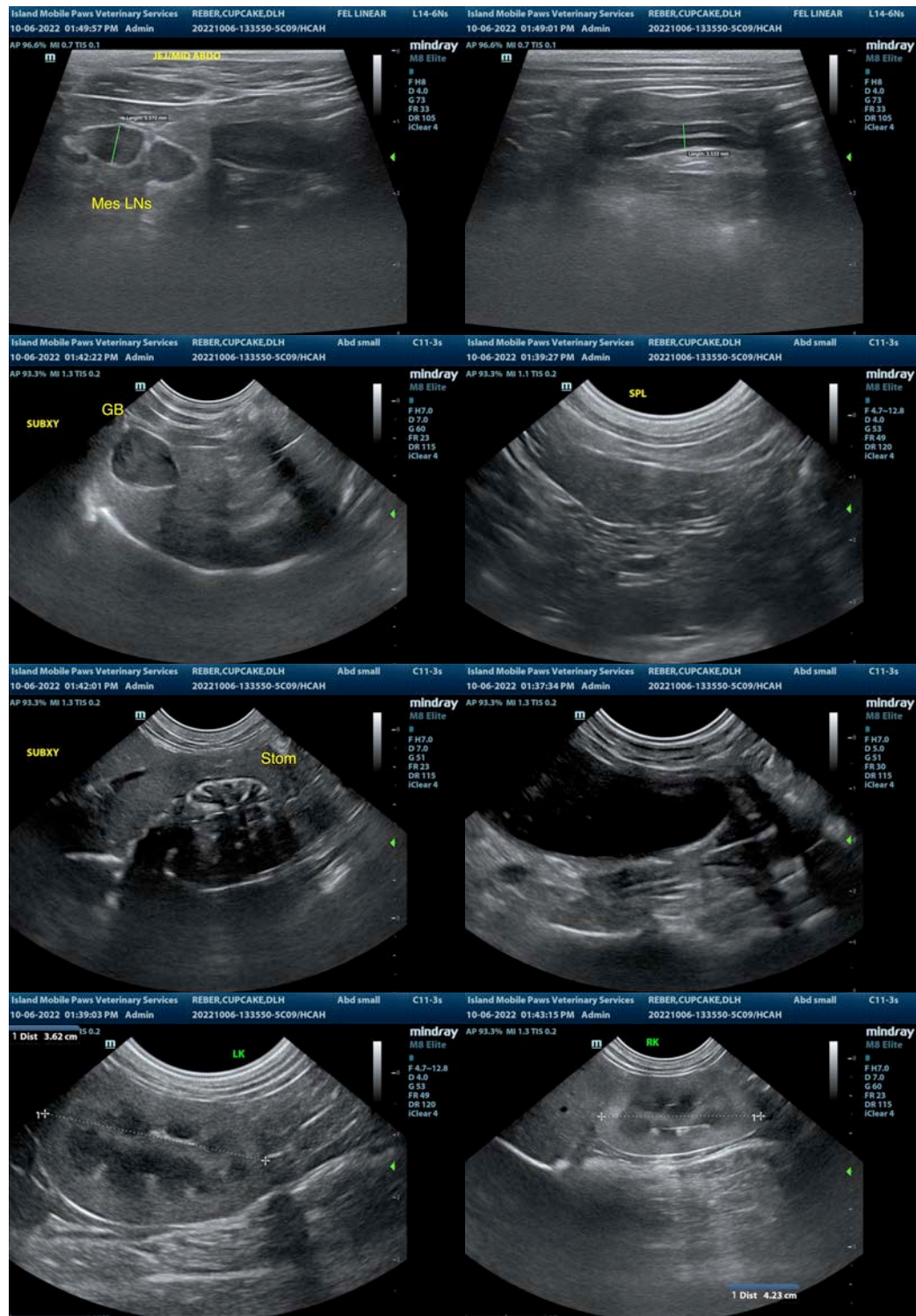
Harbour City AH

**INVOICE**

41934

**DATE**

10/9/22





**PATIENT**

Cupcake Reber

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.

**R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)**

info@SonoPath.com

**BREED**

DMH

**SEX**

Neutered Male

**AGE**

12 Years 3 Months

**WEIGHT**

4.11 kg

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Donna Markland, DVM

**HOSPITAL NAME**

Island Mobile Paws

**REFERRING VET**

Harbour City AH

**INVOICE**

41934

**DATE**

10/9/22