



PATIENT

Dexter Cuomo

SPECIES

Canine

BREED

Morkie

SEX

Neutered Male

AGE

10 Years

WEIGHT

18.2 Pounds

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

**IMAGING
PERFORMED BY**

Jessica Miller

HOSPITAL NAME

Millburn VH

REFERRING VET

Dr. Turowsky

INVOICE

14232

DATE

3/8/22

PRESENTING CLINICAL SIGNS

History: History of dietary indiscretion, numerous gastrotomies, vomited 12-14x this morning. Rads concerning for gastric foreign body. No current meds.
Abnormal PE/Chem/CBC/UA Results: N/A

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Mild dependent mineral to small calculi were present. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted. Aortic trifurcation was normal.

The residual prostate was normal.

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 moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Pinpoint to focal areas of medullary mineral were present in both kidneys. A solitary cortical cyst was present in the left kidney, cranial to the medial cortex, measuring 0.77 cm in diameter. The left kidney measured 4.9 cm in length. The right kidney measured 5.1 cm in length.

Adrenal Glands

The left adrenal gland was enlarged with nonhomogeneous nonmineralized parenchyma, measuring approximately 3.2 cm in length x 1.7 cm at the cranial pole in width and 0.82 cm at the caudal pole in width.

The right adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The right adrenal gland measured 2.3 cm in length x 0.62 cm width in the caudal pole.

Spleen

The spleen was overall normal in size with areas of mild capsule asymmetry. Multiple to coalescing hyperechoic nodules were noted in the medial parenchyma, primarily adjacent to the hilus. A solitary, mildly hypoechoic non-expansive nodule was present in the caudal spleen, measuring 0.70 cm in diameter.

Liver

The liver exhibited moderate generalized enlargement. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion.

The gallbladder was non distended in size with mild gallbladder debris. The gallbladder was otherwise normal. The cystic duct and common bile ducts were normal without evidence of dilation.

Gastrointestinal



PATIENT	The stomach presented wall thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. The gastric body wall measured –cm width. Mild gastric distension with moderate retained anechoic fluid, primarily present in the fundus and body. Strongly shadowing luminal echo noted (2.5-3.0 cm in diameter), occupying the majority of the antrum and pylorus lumen, extending into the duodenum.
Dexter Cuomo	
SPECIES	
Canine	The jejunum and ileum appeared to be primarily empty with maintained wall layering to the level of the colon.
BREED	
Morkie	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.
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10 Years	Free Abdomen No overt lymphadenopathy or peritoneal effusion was present.
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ULTRASONOGRAPHIC FINDINGS

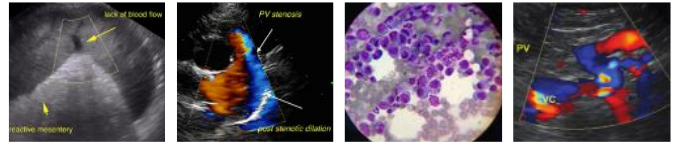
- Strongly shadowing gastric luminal echo, extending into the duodenum, consistent with gastric foreign body, potentially anchored in the antrum and pylorus, extending into the duodenum
- Mild dependent urinary bladder mineral
- Bilateral chronic renal changes with left kidney cortical cyst and medullary mineral
- Left adrenal mass
- Variably echogenic splenic nodules
- Moderate hepatomegaly-subjectively benign
- Mild gallbladder debris (non-mucocele)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The left adrenal mass may indicate moderate to significant hyperplasia, functional versus nonfunctional adenoma or neoplasia, such as pheochromocytoma, adenocarcinoma or other. Full adrenal work up could be considered, if clinical signs of adrenal hyperfunctionality are present.

The hyperechoic splenic nodules, although not specific are suggestive of multiple to coalescing benign myelolipomas, potential emerging mineralization or hyperplasia. The hypoechoic splenic nodule may indicate lymphoid hyperplasia, focal hematopoiesis, splenitis, while the possibility of emerging neoplasia cannot be definitively excluded.

Ultrasound guided hepatosplenic FNA could be considered for screening cytology. Laparotomy with expectation toward gastrotomy with gross inspection of the left adrenal gland, spleen and liver warranted. Screening blood pressure is advised prior to surgical considerations. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.



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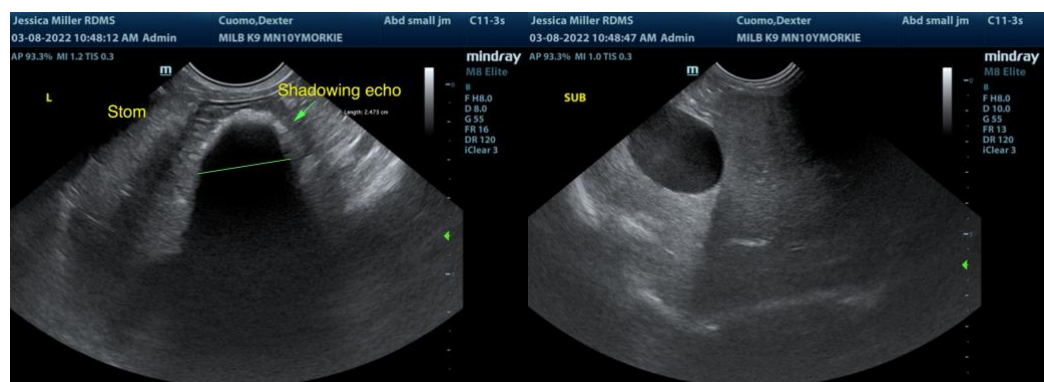
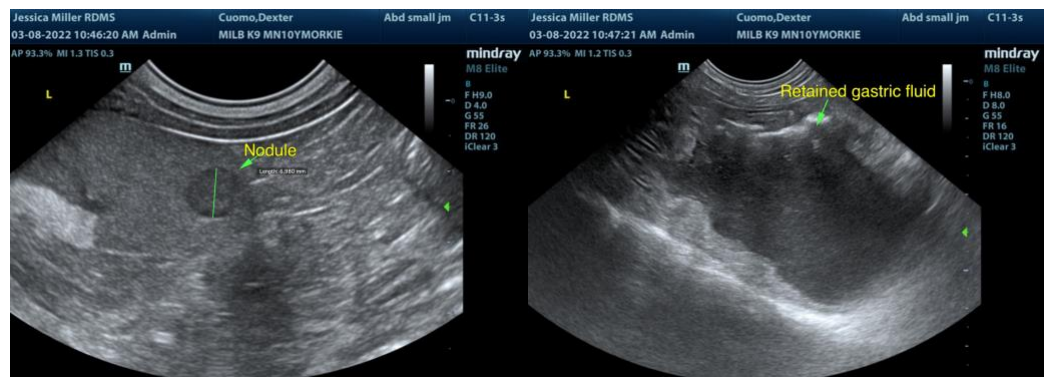
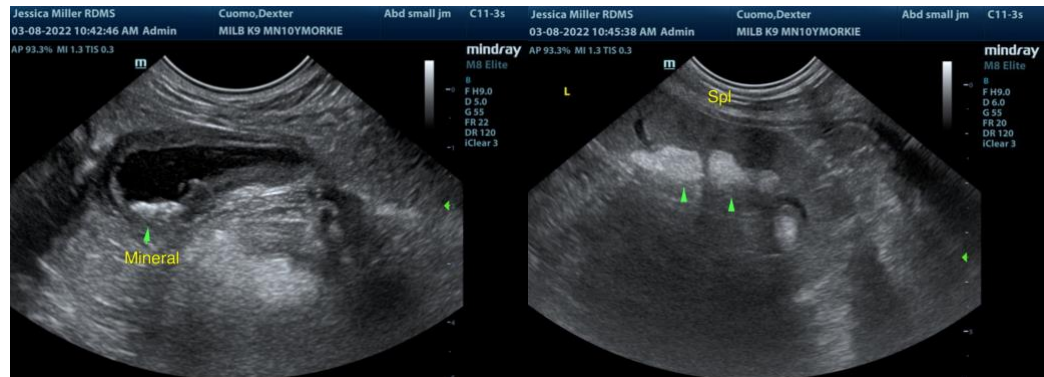
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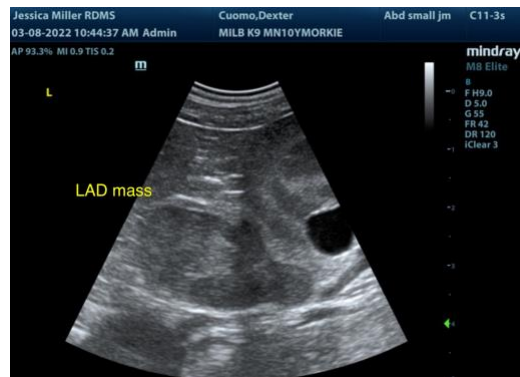
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com