



PATIENT	PRESENTING CLINICAL SIGNS
Moo Rattner	Diarrhea and intermit vomiting
SPECIES	Abnormal PE/Chem/CBC/UA Results: Pending
Canine	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
BREED	Urinary System
King Charles Cavalier Mix	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.
SEX	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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.5 cm in length. The right kidney measured 4.5 cm in length.
MN	
AGE	The area of the aortic trifurcation was free of pathology.
13.5yr	The area of the residual prostate appeared normal and free of pathology.
WEIGHT	Adrenal Glands
19lb	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.58 cm width at the caudal pole and 1.7 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.41 cm width at the caudal pole and 1.7 cm width at the cranial pole.
INTERPRETED BY	Spleen
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	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.
IMAGING PERFORMED BY	Liver/Gallbladder
A. Rodriguez	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. Normal hepatic vascular volume was present. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild echogenic sediment. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.
HOSPITAL NAME	Gastrointestinal
Foxfield Veterinary Services	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained moderate variably echogenic to non-shadowing ingesta with a focal area of ingesta shadowing measuring ~ 1.2 cm in diameter present in the antrum or pylorus with no signs of ileus or obstruction.
REFERRING VET	
A. Rodriguez	
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PATIENT	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine contained segmental non-shadowing ingesta/chyme with no signs of ileus, obstruction or foreign material. No evidence of loss of intestinal wall layering or intestinal masses
Moo Rattner	
SPECIES	Normal visible colon wall layers were present with apparent semi formed feces in lumen.
Canine	Pancreas
BREED	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.
King Charles Cavalier Mix	Free Abdomen
SEX	No omental masses, overt lymphadenopathy or peritoneal effusion was present.
MN	ULTRASONOGRAPHIC FINDINGS
AGE	<ul style="list-style-type: none"> Moderate focally shadowing gastric ingesta. Sonographically unremarkable small bowel with segmental non-shadowing ingesta/chyme. Unremarkable pancreas. Semi formed feces in colon.
13.5yr	Secondary findings
WEIGHT	<ul style="list-style-type: none"> Mild chronic renal changes. Minor gallbladder sediment (non-mucocele)
19lb	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
INTERPRETED BY	Overall, there is no overt evidence of significant abdominal visceral pathology as a definitive cause of the patient's clinical signs. No evidence of gastroenterocolic mural pathology or active pancreatitis. The presence of gastric ingesta is nonspecific and likely indicates post-prandial presentation. Correlation with most recent meal ingestion is recommended. If documented NPO prior to the ultrasound, the presence of gastric ingesta may indicate some degree of gastric hypomotility or metabolic stasis. The sonographic presentation of the ingesta was most consistent with food with the potential for focally shadowing dense gastric ingesta, medication or treat with non-obstructive foreign body thought less likely yet cannot be definitively excluded.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Dietary indiscretion / food hypersensitivity, dysbiosis, occult parasitism, occult Addison's disease, structurally insignificant inflammatory gastroenteropathy or low grade to chronic pancreatitis both of which may appear sonographically normal are all potentials.
IMAGING PERFORMED BY	Hospitalization with 24 hour IVF and GI support with sonographic monitoring for evidence of GI emptying is recommended. Correlation with pending lab work to assess underlying metabolic disease as a contributing factor is suggested. A fresh fecal analysis is recommended to rule out parasitic ova/giardia. A GI panel to include PLI/TLI/Cobalamin/Folate is recommended. Although considered unlikely considering normal adrenal presentation, a resting cortisol level to rule out occult Addison's disease is recommended.
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PATIENT

Moo Rattner

SPECIES

Canine

BREED

King Charles Cavalier
Mix

SEX

MN

AGE

13.5yr

WEIGHT

19lb

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

**IMAGING
PERFORMED BY**

A. Rodriguez

HOSPITAL NAME

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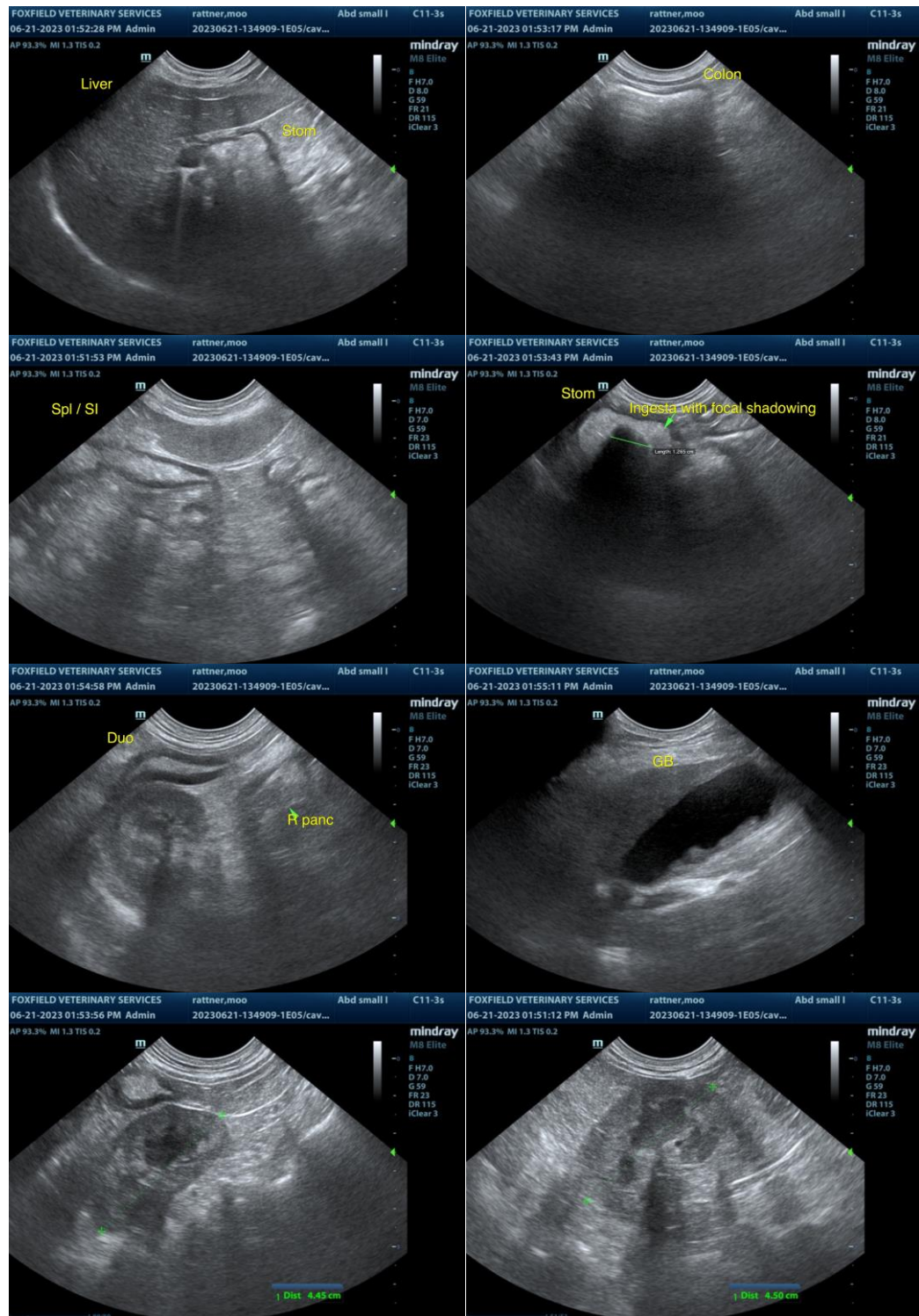
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PATIENT

Moo Rattner

SPECIES

Canine

BREED

King Charles Cavalier
Mix

SEX

MN

AGE

13.5yr

WEIGHT

19lb



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.

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)
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