

PATIENT PRESENTING CLINICAL SIGNS

PATIENT Tank Kimball Vomited 2 days ago. Decreased appetite and lethargy. Ate small amount without vomiting after cerenia. History 3 laparotomies: 1) Cryptorchid 2) FB 3) Intestinal RANA/ septic abdomen
SPECIES Abnormal PE/Chem/CBC/UA Results: Fecal sent out CBC- WNL Chem- BUN 49, ALKP 17
 Abdominal rads

BREED Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED Labrador Retriever The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 5.0 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

SEX Neutered Male The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture. The prostate measured 1.0 cm.

AGE

AGE 5 Years Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 6.6 cm. The right kidney measured 6.4 cm.

WEIGHT

WEIGHT 90 Pounds The area of the aortic trifurcation was free of pathology.

Adrenal Glands

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.44 cm at the cranial pole and 0.54 cm at the caudal pole. The right adrenal gland measured 0.60 cm at the cranial pole and 0.49 cm at the caudal pole.

INTERPRETED BY

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

Spleen

IMAGING PERFORMED BY

Pamela Harrigan, RDMS

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.

HOSPITAL NAME

New England AMC

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 not definitively visualized owing to patient size and conformation. Potential gallbladder contraction suspected.

REFERRING VET

Dr. Alberto Fernandez

Gastrointestinal

INVOICE

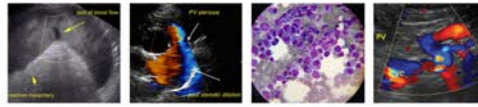
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The stomach presented intact wall layering with a normal wall layer ratio. The stomach was primarily empty with mild to moderate luminal gas and without overt evidence of retained gastric fluid, ingesta or foreign material. Gastric body wall measured 0.40 cm.

DATE

10/18/21

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Segmental small intestine exhibited mild to moderate retained fluid with both oral and aboral movement of fluid noted along with segmental minor corrugation, potentially indicative of hyperperistalsis or spasm. Duodenum wall measured 0.31 cm. Jejunum wall measured 0.27-0.35 cm. Empty segments of small



PATIENT

Tank Kimball

intestine were also noted adjacent to intestinal loops containing retained fluid. A non-specific, yet strongly shadowing intestinal luminal echo noted, measuring approximately 2.0 cm in diameter.

SPECIES

Canine

The colon exhibited yet subjective mild prominent wall layering and primarily empty lumen with evidence of colonic gas artifact.

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.

BREED

Labrador Retriever

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

SEX

Neutered Male

ULTRASONOGRAPHIC FINDINGS

- Segmental mild to moderate small bowel retained fluid exhibiting oral /aboral movement with concurrent empty small bowel – mechanical versus metabolic ileus.
- Non-specific shadowing intestinal echo

AGE

5 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The strongly shadowing intestinal luminal echo combined with both mild to moderate intestinal fluid dilation as well as empty segments of small intestine are strongly suspicious for an intestinal foreign body with concurrent mild to moderate proximal intestinal obstructive pattern. Potentially, this shadowing echo may be passing and/or moving into the area of the colon, resulting in partial obstructive pattern given the lack of concurrent gastric retained fluid.

WEIGHT

90 Pounds

INTERPRETED BY

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

No overt evidence of an intestinal stricture or other intestinal pathology noted, yet given the patient's history of multiple laparotomies, potential for concurrent stricture cannot be definitively excluded.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Based on these findings, exploratory laparotomy for further clarification is warranted in this case. Intestinal biopsies would be considered essential despite exploratory findings given the patient's PICA history as well as to assess for underlying intestinal disease. Hospitalization with 24-hour IV fluid and gastrointestinal supportive protocol to correct potential dehydration (given the elevated BUN level) and recheck sonogram in 12-24 hours would be a more conservative approach.

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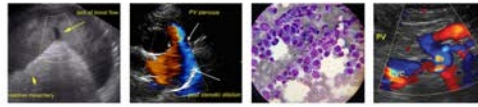
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SPECIES

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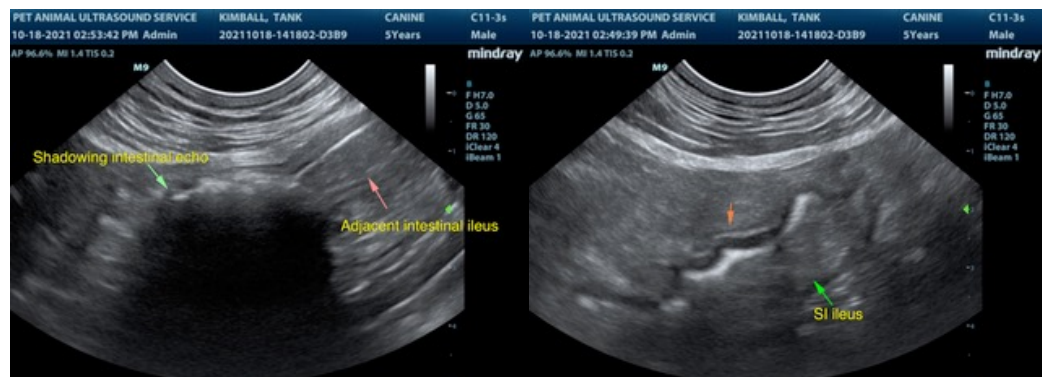
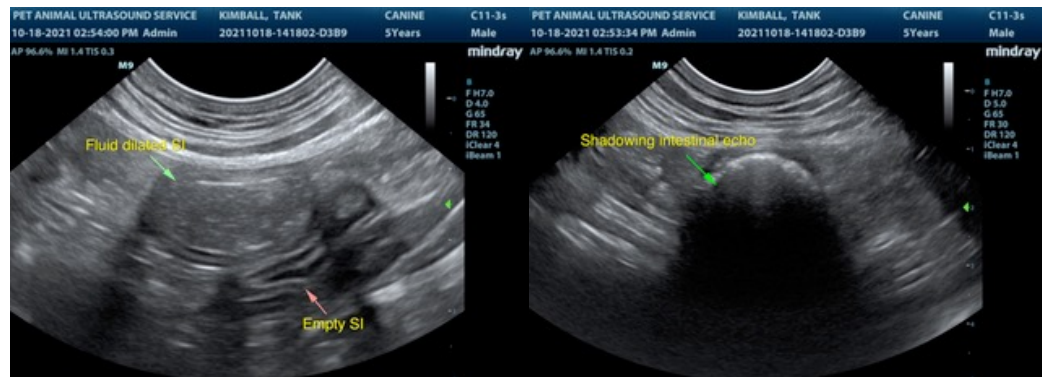
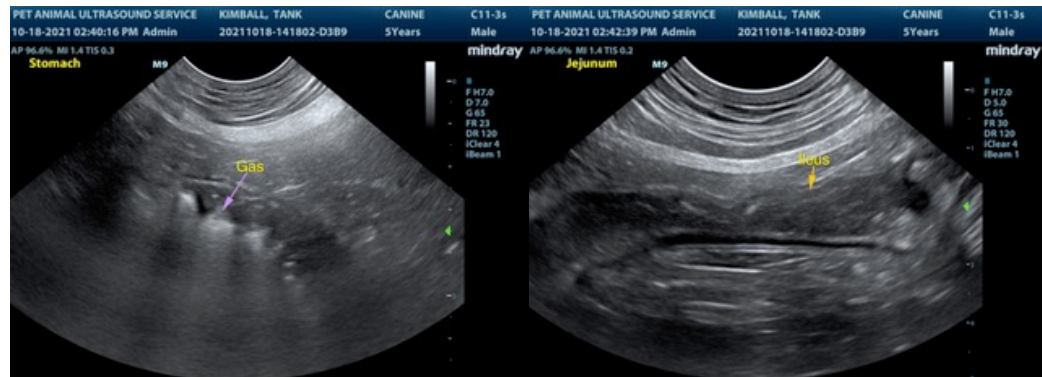
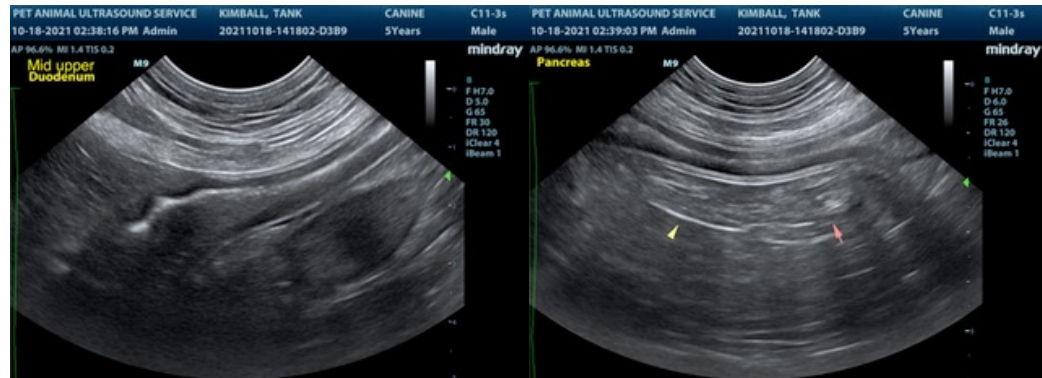
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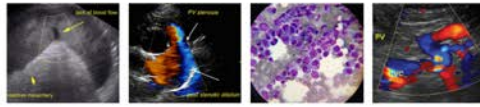
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

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

Labrador Retriever

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

Neutered Male

AGE

5 Years

WEIGHT

90 Pounds

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**IMAGING
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