



**PATIENT**

Brody Kobovitch

**PRESENTING CLINICAL SIGNS**

History: Suspect splenic or hepatic enlargement. Possible gastric foreign body- vomited multiple times, ate plastic toy 2 days ago.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: 1/22 -ALT 197, 7/21- 242. ok otherwise

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

German Shepherd

**Urinary System**

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**

MN

Normal size and margination were 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 7.0 cm in length. The right kidney measured 6.5 cm in length.

**AGE**

7yr

The area of the aortic trifurcation was free of pathology.

**WEIGHT**

86lb

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.74 cm width at the caudal pole and 3.0 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.60 cm width at the caudal pole and 3.2 cm length.

**INTERPRETED BY**

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

**Spleen**

The spleen exhibited generalized mild parenchyma heterogeneity with potential for mild splenic folding. Minor areas of lateral and medial capsule asymmetry were present. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.

**IMAGING PERFORMED BY**

Jessica Miller

**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 thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**HOSPITAL NAME**

North Haledon Vet  
Care

**Gastrointestinal**

The stomach presented intact wall layering with potential for mildly prominent wall layering in the area of the antrum and pylorus. A strongly shadowing irregular echo measuring approximately 4.5 cm in diameter was present in the area of the pyloric outflow. Moderate retained gastric fluid with secondary mild to moderate gastric distention was present.

**REFERRING VET**

Dr. Goldstein

**INVOICE**

11169ag

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Segmental variable ileus pattern with focal to likely multiple small strongly shadowing echoes were present an example measuring 1.5 - 2 cm in diameter. A segmental area of mid ventral intestine exhibited evidence of corrugation to potential plication possibly indicative of a linear component.

**DATE**

07/25/2022

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



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**Pancreas**

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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.

**SPECIES**

Canine

**Free Abdomen**

No peritoneal effusion was present.

**BREED**

German Shepherd

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

MN

- Strongly shadowing pyloric/pyloric outflow echo with moderate retained gastric fluid
- Concurrent segmental strongly shadowing small intestinal echoes with segmental intestinal corrugation/plication-potential linear component to the shadowing intestinal echoes
- Benign low grade hepatopathy-suspect metabolic, reactive or potential low grade hepatopathy
- Mildly prominent spleen exhibiting subtle parenchyma heterogeneity and potential minor folding-subjectively benign

**AGE**

7yr

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

An exploratory laparotomy with expectation toward gastrotomy and enterotomy with potential for multiple enterotomies is recommended. Gross inspection of the liver and spleen is warranted, +/- hepatic/splenic biopsies, primarily to ensure only benign changes are present. Intestinal biopsies at the time of surgery could be considered to rule out underlying GI disease as a potential cause of pica.

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86lb

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**REFERRING VET**

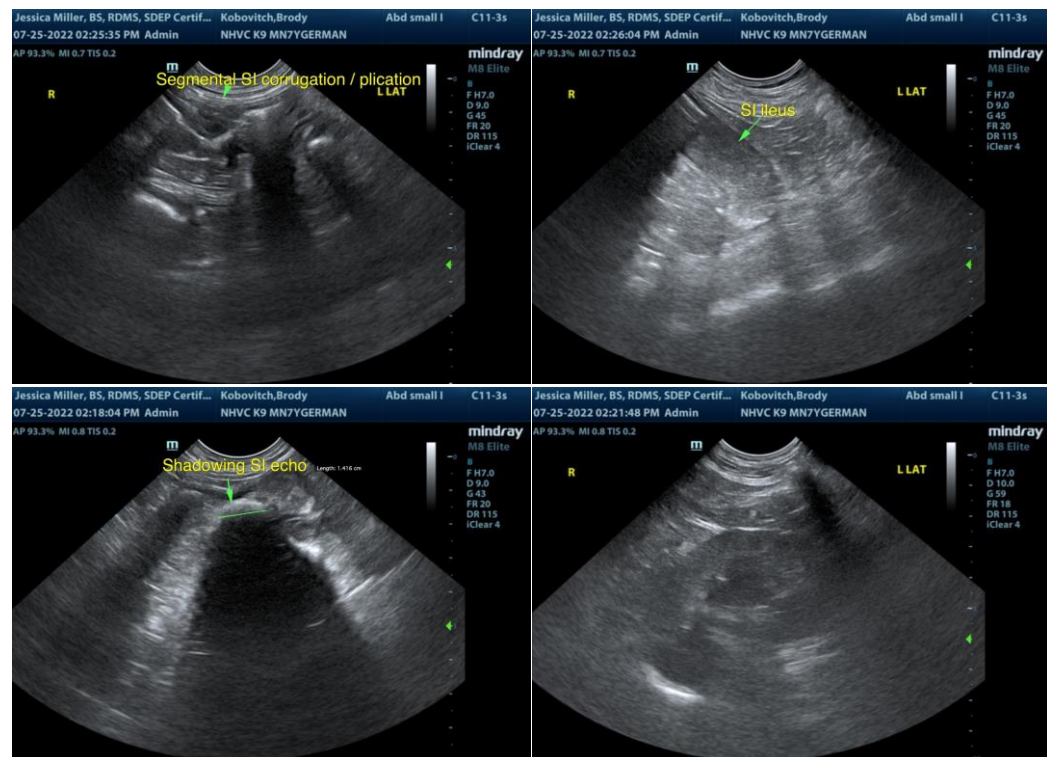
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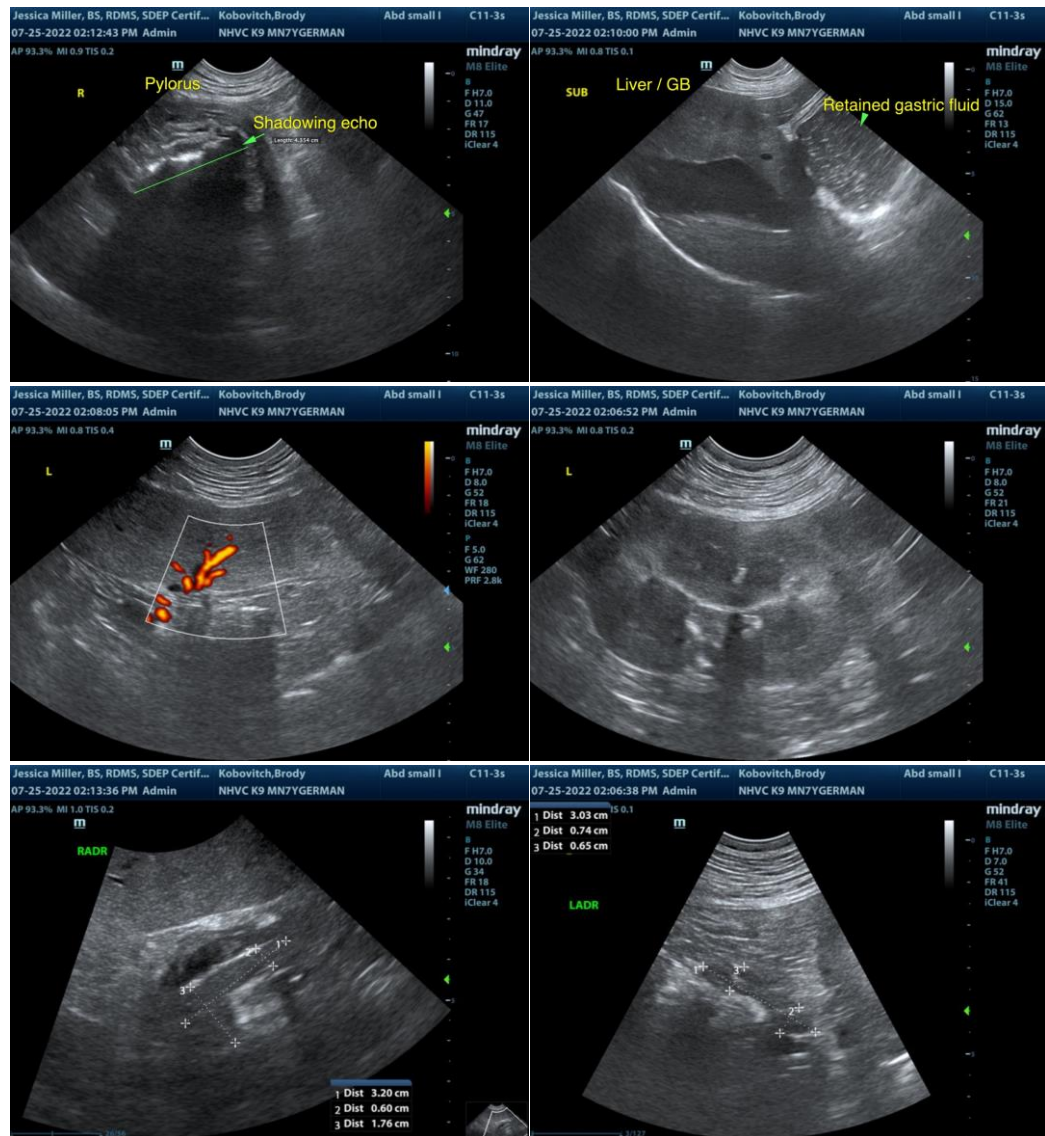
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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