



PATIENT	PRESENTING CLINICAL SIGNS
Julius Viglione	Vomiting dark stool anemic chemistry unremarkable
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	The submitted study contained 39 still images and 8 videos for review.
BREED	<i>Urinary System</i>
Cairn Terrier	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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	The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 0.36 cm in diameter.
Male Neuter	No evidence of pathology in the area of the aortic trifurcation.
AGE	Normal size and margination was 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. Potential for small cortical cysts present. The left kidney measured 4.3 cm in length. The right kidney measured 4.8 cm in length.
WEIGHT	<i>Adrenal Glands</i>
8.5kg	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.51 cm width. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.67 cm width.
INTERPRETED BY	<i>Spleen</i>
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.
IMAGING PERFORMED BY	<i>Liver / Gallbladder</i>
Dr Belan	The liver was subjectively normal in size, structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion.
HOSPITAL NAME	The gallbladder was non distended in size with mild echogenic, nonmineralized gallbladder debris. The cystic duct and common bile ducts were normal without evidence of dilation.
Alpine 24/7	<i>Gastrointestinal</i>
REFERRING VET	The stomach presented wall thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. Mild gastric distension with primarily minor retained anechoic fluid was present in the gastric lumen without evidence of ingesta or foreign material. Potential for mild
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PATIENT	pyloric thickening with decreased mural echogenicity and loss of distinct pyloric wall layering. The pylorus wall subjectively measured 0.72 cm width.
Julius Viglione	
SPECIES	The small intestine exhibited primarily intact wall layering with propensity for variably prominent mucosal. Segmental area of intestinal mural hypertrophy, decreased mural echogenicity, and loss of distinct wall layering noted in the subjective mid abdominal jejunum. Likely jejunum wall in this area measuring 0.65 cm width, by comparison, normal appearing to mildly prominent jejunum wall measured 0.3-0.45cm width. The duodenum wall width measured 0.35 cm.
Canine	
BREED	Normal visible colon wall layers were present with apparent formed feces in lumen.
Cairn Terrier	
SEX	<i>Pancreas</i>
Male Neuter	The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.
AGE	<i>Free Abdomen</i>
14	Several enlarged, hypoechoic medial iliac and suspect focal hypogastric lymph nodes were present. The lymph nodes exhibited symmetrical to rounded margination with abnormal width: length ratio (>0.5). The enlarged lymph nodes were bordered by echogenic to reactive mesentery. An example of a medial iliac lymph node measured 1.2 x 1.2 cm.
WEIGHT	Intermittent focally enlarged mesenteric lymph nodes were present. These lymph nodes were homogenous, mildly hypoechoic and smoothly margined. A normal width: length ratio was maintained (<0.5). Evidence of perilymphatic inflammation was evident. An example of lymph node size was 0.7 cm width.
8.5kg	No overt peritoneal effusion was present.
INTERPRETED BY	ULTRASONOGRAPHIC FINDINGS
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	<ul style="list-style-type: none"> • Emerging intestinal mural mass, potential for segmental to generalized enteropathy - emerging mural mass suspected to be jejunal in location, inflammatory versus neoplastic enteropathy/ gastroenteropathy possible. • Hypoechoic to swollen medial iliac, suspect focal hypogastric, and intermittent mesenteric lymph nodes - hyperplasia, reactive lymphadenitis, or neoplastic lymphadenopathy possible. • Gastritis with possible mild pyloric thickening and associated stasis. • Bilateral mild chronic renal changes.
IMAGING PERFORMED BY	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Dr Belan	Although sampling is required for further clarification, intestinal or potential gastrointestinal neoplasia is favored in this case with primary concern for lymphoma versus other round cell neoplasia with lymphatic involvement. Gastrointestinal biopsies would be required for a definitive diagnosis. Alternatively, if accessible, ultrasound guided FNA of a medial iliac lymph node for screening cytology could be considered. Potential for microulceration/ulceration i.e., ulcerative lymphoma possible given the reported melena.
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Julius Viglione

SPECIES

Canine

BREED

Cairn Terrier

SEX

Male Neuter

AGE

14

WEIGHT

8.5kg

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IMAGING PERFORMED BY

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HOSPITAL NAME

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REFERRING VET

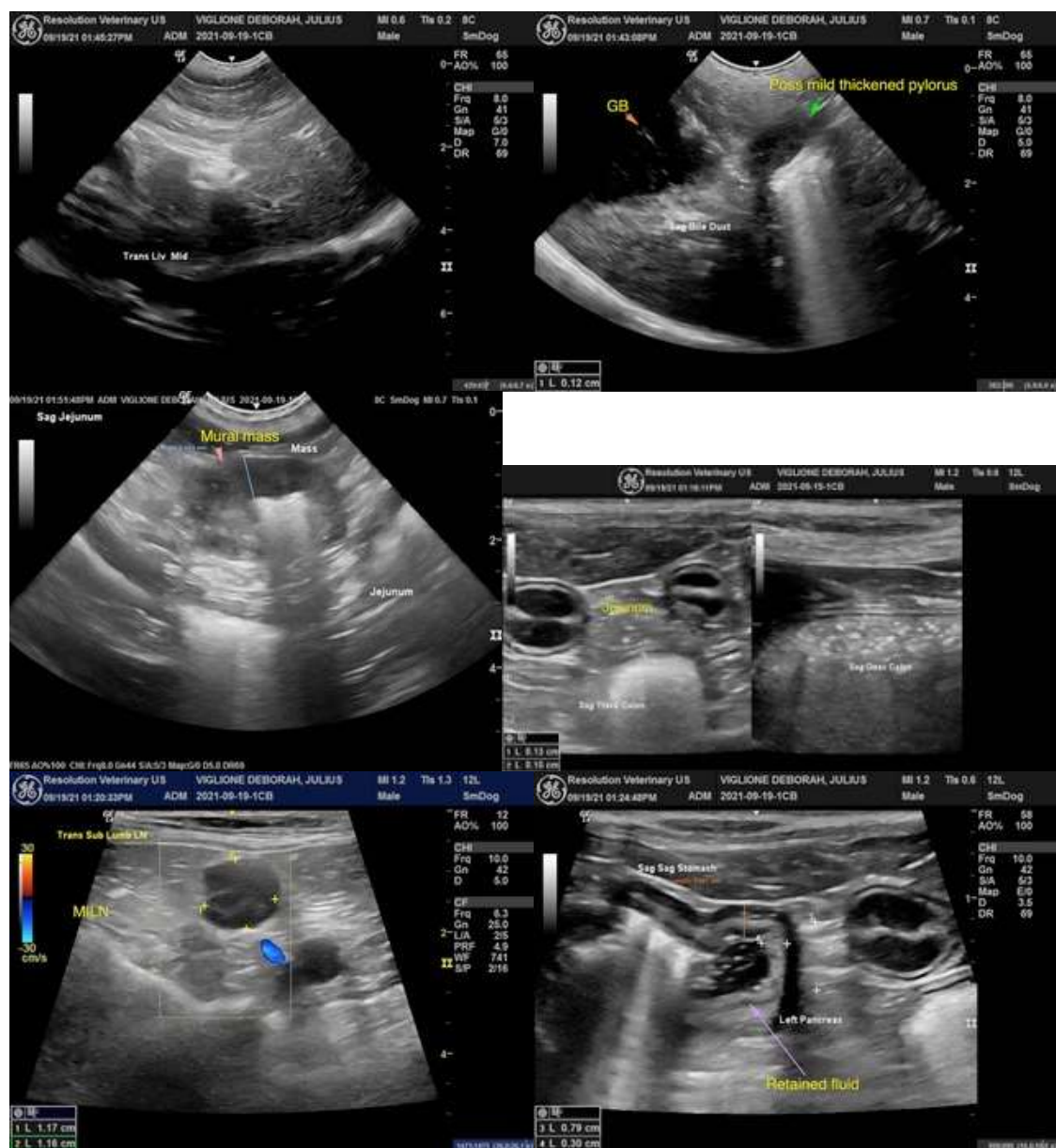
Dr Zhao

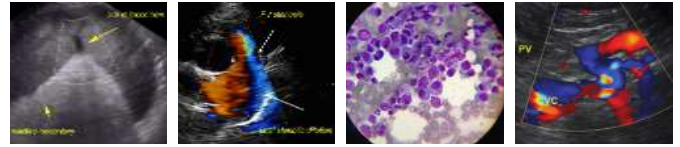
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SPECIES

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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