



PATIENT

Gino Quiles

PRESENTING CLINICAL SIGNS

History: V x 48h, irregular bowel pattern. Current meds: Cerenia and Famotidine inj. yesterday.
Abnormal PE/Chem/CBC/UA Results: Pending

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Bernese Mountain Dog

Urinary System

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

SEX

Intact male

The prostate is large in size (3.45 cm) but has a regular shape with smooth external margins. The parenchyma is heterogenous but no discrete focal lesions are present. The prostatic urethra appears normal with no evidence of irregularity, invasion, mass effect or calculi.

AGE

1 year

The left kidney has a normal shape and size (6.6 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

93 lbs

The right kidney has a normal shape and size (7.06 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

INTERPRETED BY

Kathleen Sennello
DVM, MS, Diplomate
ACVIM (Small Animal
Internal Medicine)

Adrenal Glands

The left adrenal gland is normal in size measuring 0.57 cm at the caudal pole It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

IMAGING PERFORMED BY

Shari Reffi, CVT

The right adrenal gland is normal in size measuring 0.87 cm at the caudal pole It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

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Spleen

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

REFERRING VET

Dr. Villari

Liver

The liver is subjectively normal in size, and echogenicity with smooth peripheral margins. The parenchyma is homogenous echotexture. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed. The gallbladder lumen is moderately distended.

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The wall of the gallbladder is not thickened and has a smooth mucosal surface. Luminal contents are primarily anechoic. The cystic and common bile ducts are normal/not visible.

SPECIES

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Gastrointestinal

The stomach is moderately dilated with fluid and irregular, hard shadowing material. This is concerning for ingested foreign material and gas. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. The hard shadowing material in the gastric lumen measures approximately 3.4 cm and is concerning for a possible gastric foreign body given the patient's history. This should be correlated with feeding history, radiographs, etc.

BREED

Bernese Mountain Dog

SEX

Intact male

The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with mild to moderate fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (0.47 cm in wall thickness) and the jejunum measured as normal (0.29 cm in wall thickness.) Visualized peristalsis appears appropriate. The proximal duodenum is fluid dilated with some echogenic, intraluminal debris. Additionally in one of the scans of the midabdomen there is an area of bowel with some soft shadowing material. This may be concerning for foreign matter. These changes are most consistent with ingested foreign material or diffuse enteritis with non-obstructive foreign material.

AGE

1 year

WEIGHT

93 lbs

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

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Internal Medicine)

Pancreas

The pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

IMAGING PERFORMED BY

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Free Abdomen

There are prominent mesenteric lymph nodes visualized and measured 0.98 cm, 0.66 cm and 0.75 cm. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

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Heart

A brief view of the heart was submitted. No pericardial effusion was seen.

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ULTRASONOGRAPHIC FINDINGS

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Primary Findings

- Hard shadowing object visualized in the gastric lumen. Correlate with the feeding history and abdominal radiographs. If the patient is adequately fasted consider the possibility of ingested foreign material.

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- Areas of moderately distended bowel with some shadowing intraluminal material. The findings can be consistent with enteritis and passing foreign material or even areas of partial obstruction.

SPECIES

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- Isoechoic mesenteric lymph nodes. The prominent abdominal lymph nodes are most consistent with reactive lymphadenitis or lymphoid hyperplasia. Neoplastic infiltration is considered less likely.

BREED

Bernese Mountain Dog

Secondary Findings

- Large, hyperechoic prostate. Normal for an intact male dog (likely BPH).

SEX

Intact male

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

1 year

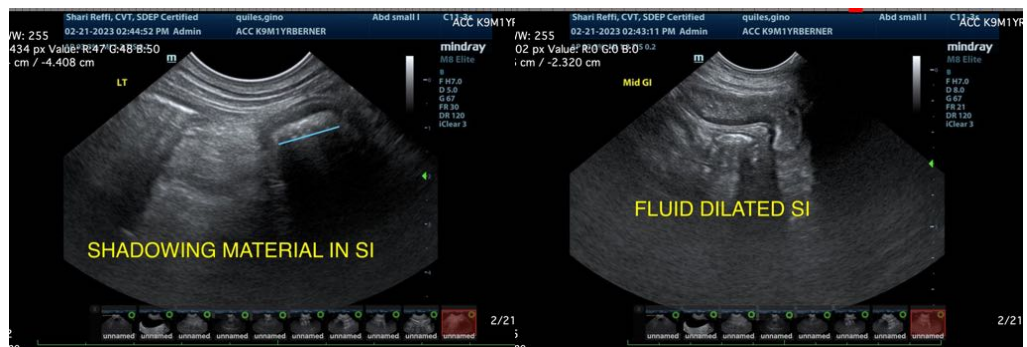
There is hard shadowing material visualized in the gastric lumen. Given the history of acute vomiting, this is a concern for possible ingested foreign material although hard ingesta, etc. can have this appearance. The stomach is somewhat fluid dilated, but does not appear completely obstructed at this time. Additionally, there are areas of the small intestine, particularly the duodenum that appear fluid dilated and have some echogenic material within and an occasional focal area of shadowing material in the bowel. These changes can be consistent with passing foreign material, partial obstruction, etc. Depending on the clinical assessment of this patient correlate with the physical exam and abdominal radiographs. Consider treatment for acute gastroenteritis and serial radiographs +/- ultrasound. If ingested foreign material is strongly suspected you can consider exploratory with biopsies obtained, especially if an obstruction is not identified. Additionally, consider screening for baseline cortisol if Addison's disease is suspected.

WEIGHT

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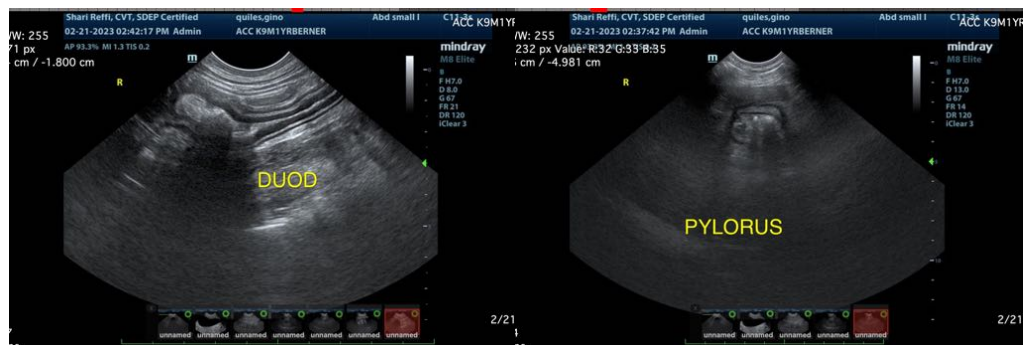


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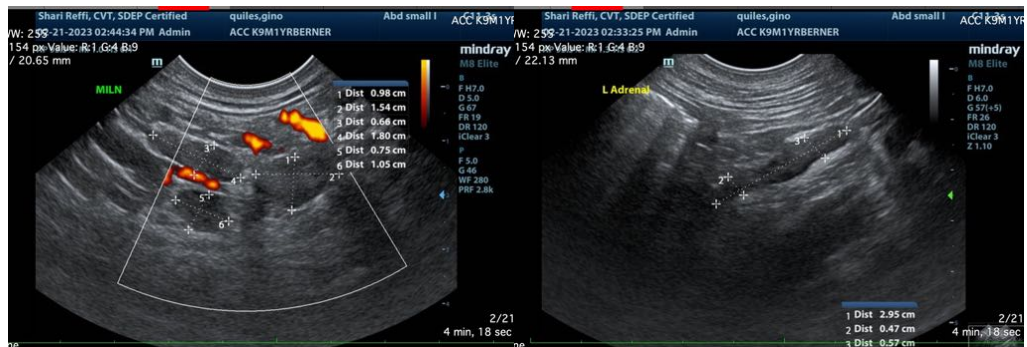
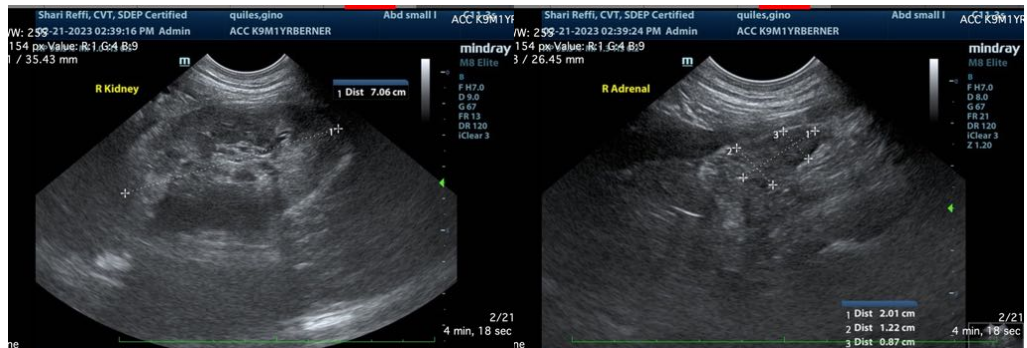
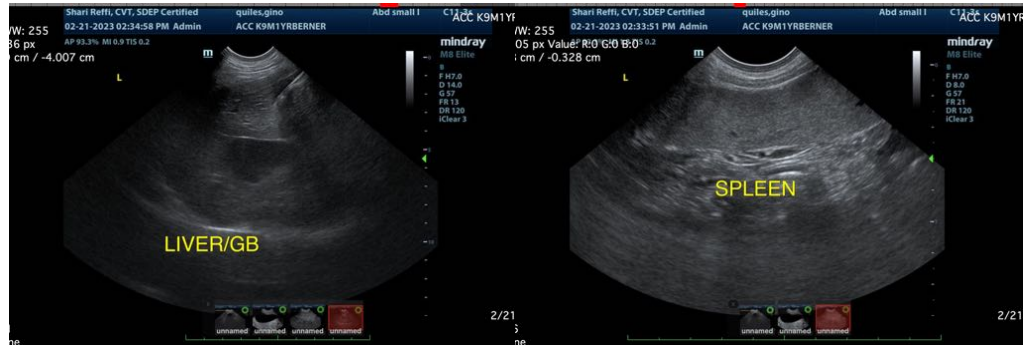
Dr. Villari

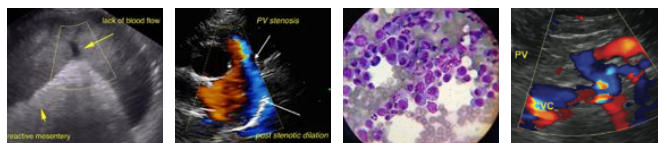
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Kathleen Sennello DVM,MS, Diplomate ACVIM (Small animal Internal Medicine)
kathleen.sennello@sonopath.com

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