



PATIENT PRESENTING CLINICAL SIGNS

Bud Reichheld Meds Cerenia, Metronidazole, Codeine and was on Onsior. Feeding Hypo diet. Appetite waxing and waning, some abdominal tenseness on palpation, has had some vomiting of bile and foam and undigested kibble. Has seen increased drooling as well.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: ALKPHOS M1 elevation, WBCs elevated 18.9, CPL positive for pancreatitis, neutrophilia, hyperglobulinemia.

BREED

Boston Terrier

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Neutered Male

Urinary bladder is adequately distended with primarily anechoic contents and occasional echogenic non-shadowing debris. Apical urinary bladder wall is diffusely thick. Mucosa is hyperechoic and irregular. A 0.6 cm echogenic, mildly shadowing focus is noted along the dependent wall, consistent with a 0.6 cm cystoliths or accumulation of smaller cystoliths or mineral sand/debris. The trigone and visible pelvic urethra are normal thickness with a smooth mucosal surface.

AGE

8 Years

Prostate is normal in size, echotexture and echogenicity for a neutered male.

WEIGHT

15.4 kg

The right kidney is normal in size (3.72 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia or infarcts observed. Non-obstructive linear multifocal hyperechoic diverticular foci with acoustic shadowing are noted.

The left kidney is normal in size (4.45 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia or infarcts observed. Non-obstructive linear multifocal hyperechoic diverticular foci with acoustic shadowing are noted.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

Adrenal Glands

The right adrenal gland is normal in size (1.65 cm long x 0.96 cm at the cranial pole and 0.56 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

IMAGING PERFORMED BY

Crystal Hill

The left adrenal gland is normal in size (1.8 cm long x 0.56 cm at the cranial pole and 0.51 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

HOSPITAL NAME

Grand River VH

Spleen

The spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.

REFERRING VET

Dr. Chu/Robinson

Liver

INVOICE

40705

The liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

DATE

8/24/22

The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.



PATIENT *Gastrointestinal*

Bud Reichheld The visible stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. However, the stomach is mildly to moderately distended with a highly reflective hyperechoic curved interface within the lumen that contains a strong acoustic shadow.

SPECIES

Canine

The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

BREED

Boston Terrier

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

SEX

Neutered Male

Pancreas

The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

AGE

8 Years

Free Abdomen

There is no evidence of free peritoneal effusion noted in these images.

WEIGHT

15.4 kg

There is no apparent lymphadenopathy noted in these images.

ULTRASONOGRAPHIC FINDINGS

- A gastric foreign body is highly suspected.
- **Chronic Cystitis with mineral debris and possible cystolith** - Urinary bladder wall changes are most consistent with chronic cystitis. Infiltrative neoplasia cannot be ruled out but is considered less likely given the location and diffuse nature of the changes.
- Non-obstructive dystrophic mineralization in the kidneys bilaterally

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is no ultrasonographic evidence in these images of pancreatitis and/or infiltrative bowel disease, although both can be present without obvious ultrasonographic changes. However, given the suspicion of a gastric foreign body, recommendations include removal of the gastric foreign body either via gastroscopy or exploratory laparotomy. Pre-procedure planning abdominal radiographs may be helpful.

If this patient has chronic gastrointestinal signs, prior to further intervention, a gastrointestinal malabsorption panel (including cobalamin, folate, TLI and PLI) to Texas A&M GI Laboratory may be considered to help dictate whether or not gastrointestinal biopsies are obtained at the time of the suspected foreign body removal.

In general, biopsies are recommended if this patient has any chronicity to his gastrointestinal signs.

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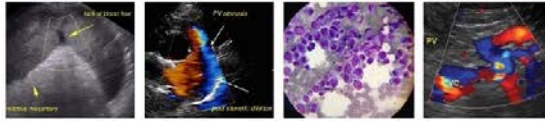
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Urinalysis and, if indicated based on urinalysis results, urine culture are recommended. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ration is recommended.

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SPECIES

Canine

BREED

Boston Terrier

SEX

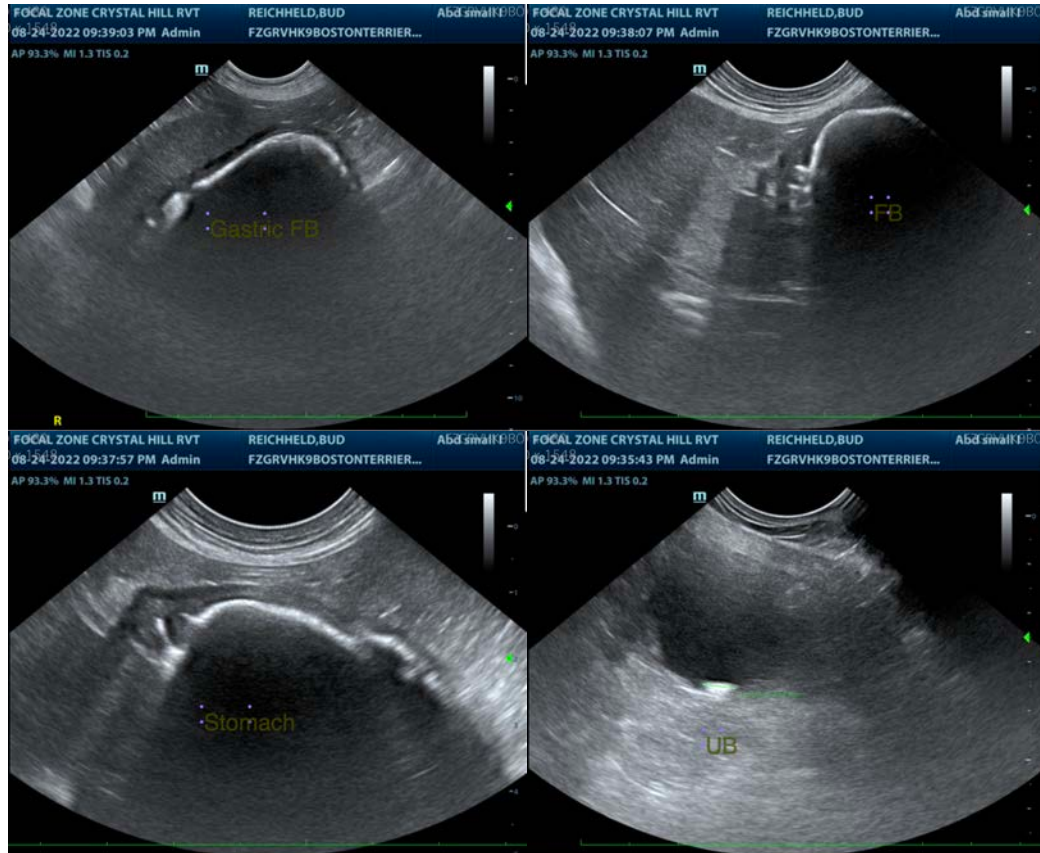
Neutered Male

AGE

8 Years

WEIGHT

15.4 kg



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SPECIES

Canine

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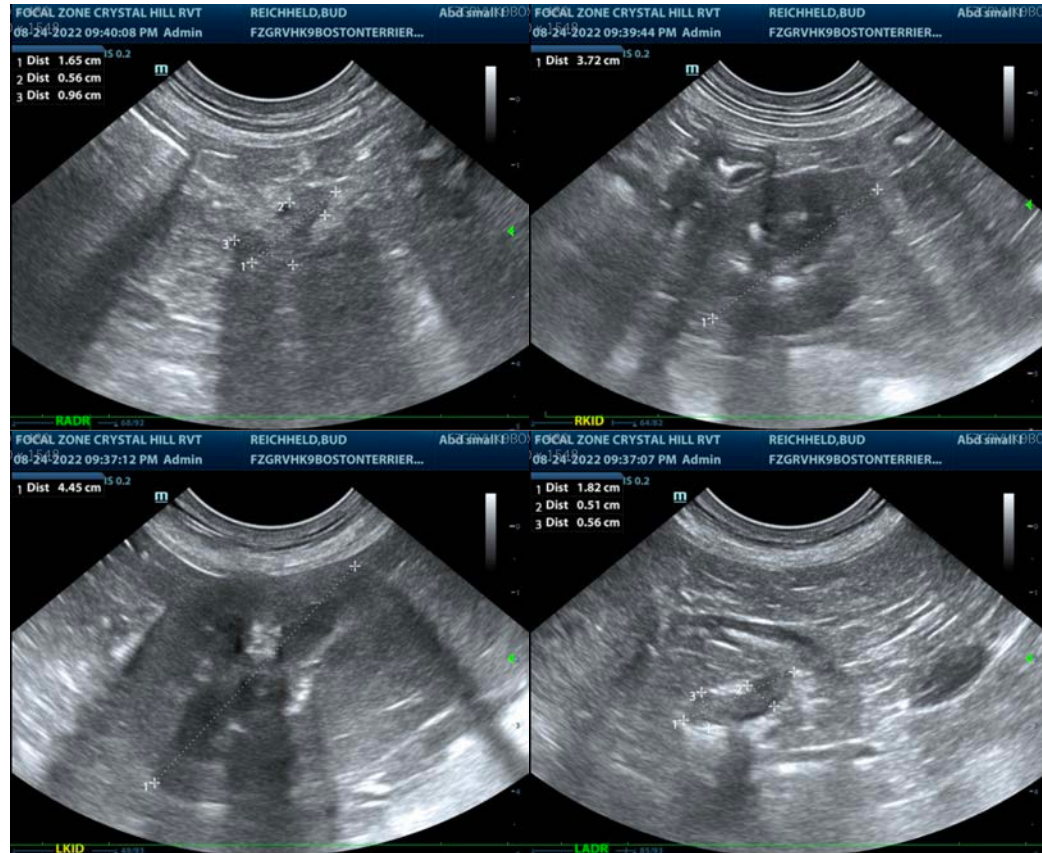
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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