



PATIENT PRESENTING CLINICAL SIGNS

Pluto Yao

History: Vomiting and severe weight loss. Very thin dog.
Abnormal PE/Chem/CBC/UA Results: Unremarkable bloodwork.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder is moderately distended. A scant amount of suspended echogenic debris is observed within the lumen. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2 cm, are normal.

LabX

SEX

Intact Male

The prostate is enlarged (2.70 cm in width), with a relatively normal shape. The parenchyma is slightly hyperechoic relative to surrounding omental fat and subtly heterogenous in appearance. No distinct focal lesions are observed. The prostatic urethra is not overtly dilated.

AGE

17 mos

The left kidney presented normal size (5.23 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

54.6 lbs

The right kidney presented normal size (6.04 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(Small Animal Internal
Medicine)

Adrenal Glands

The left adrenal gland is normal size (0.50 cm at cranial pole) (0.43 cm at caudal pole) (2.88 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

IMAGING PERFORMED BY

Crystal Hill

The right adrenal gland is normal size (1.02 cm at cranial pole) (0.69 cm at caudal pole) (1.99 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

HOSPITAL NAME

St. Catharines AH

Spleen

(No images provided).

REFERRING VET

Dr. Boctor

Liver

The liver is subjectively normal in size with normal contours and structure. There is appropriate echogenicity and echotexture. No overt structural evidence of inflammatory, infiltrative or regenerative pathology is evident. Vascular and biliary tracts are of normal volume with no evidence of congestion. No pathological hepatic lymphadenopathy observed.

INVOICE

10590

The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal.

DATE

3/21/22



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Gastrointestinal

The gastric lumen is distended with ingesta. The gastric wall is normal in thickness with a normal layering pattern. Several small intestinal bowel segments are severely distended with fluid and chyme (up to 3.78 cm) and are hypomotile. A small intestinal segment in the caudal abdomen contains irregular shadowing material. At least one small intestinal segment in the right cranial quadrant is slightly cordated in appearance. In several of the dilated segments, the wall is thickened (up to 0.51 cm), with a prominent muscularis layer. Several small intestinal segments are empty. The colonic wall is normal.

Pancreas

The region of the pancreas is largely obscured by the dilated bowel. However, no obvious pathology is observed in the visible portions.

Free Abdomen

Trace free fluid is observed. The mesentery throughout the abdomen is mildly hyperechoic. Several prominent to enlarged lymph nodes are observed in the mid- to caudal abdomen, the largest measuring 2.42 cm in length.

Other

The left testicle measures 2.79 x 2.11. The right testicle measures 2.66 x 1.75. The testicles are subjectively normal in size and symmetrical with normal shape and homogenous parenchyma. No obvious abnormalities are seen.

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- The bowel findings (dilation/ileus/luminal shadowing material) are most concerning for a chronic foreign body/obstruction. The bowel wall thickening is most consistent with an inflammatory process with a lower possibility of emerging neoplasia.
- The prominent abdominal lymph nodes are most consistent with reactive lymphadenitis or lymphoid hyperplasia. Neoplastic infiltration is possible considered less likely.
- The mesenteric changes and trace ascites are likely secondary to peritonitis.

Secondary Findings

- The prostate changes are consistent with a young, intact, male dog.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- Abdominal radiographs may provide additional information regarding the character of the foreign material.
- Thoracic radiographs would be useful in assessing for occult aspiration pneumonia.
- An abdominal exploratory is recommended to assess for and remove any intestinal foreign material (if present). Gastrointestinal and abdominal lymph node biopsies are also recommended at the time of surgery, particularly if no foreign material is found.

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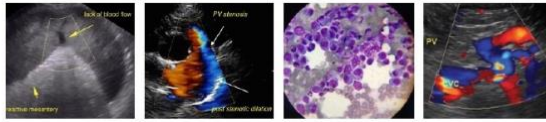
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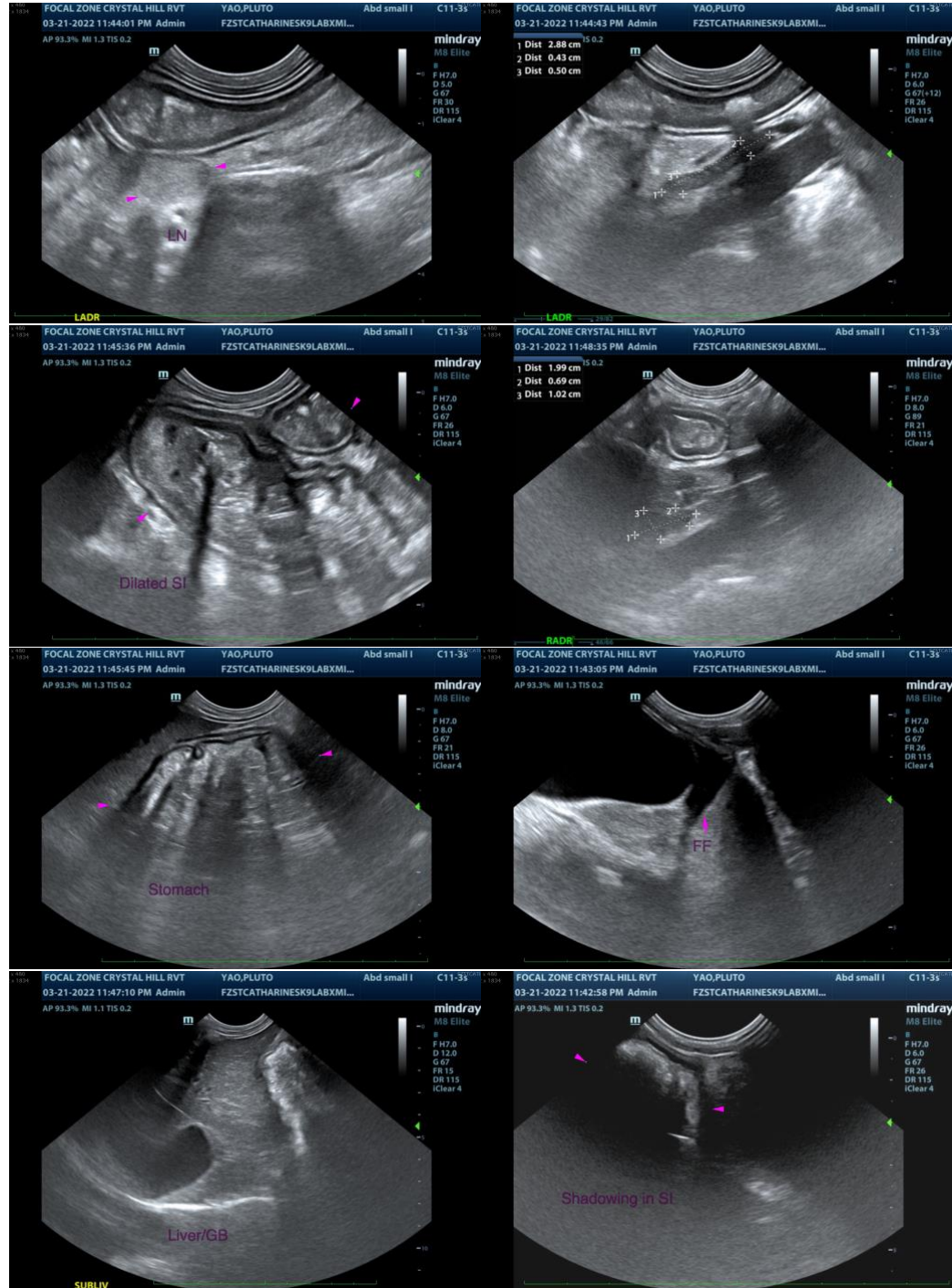
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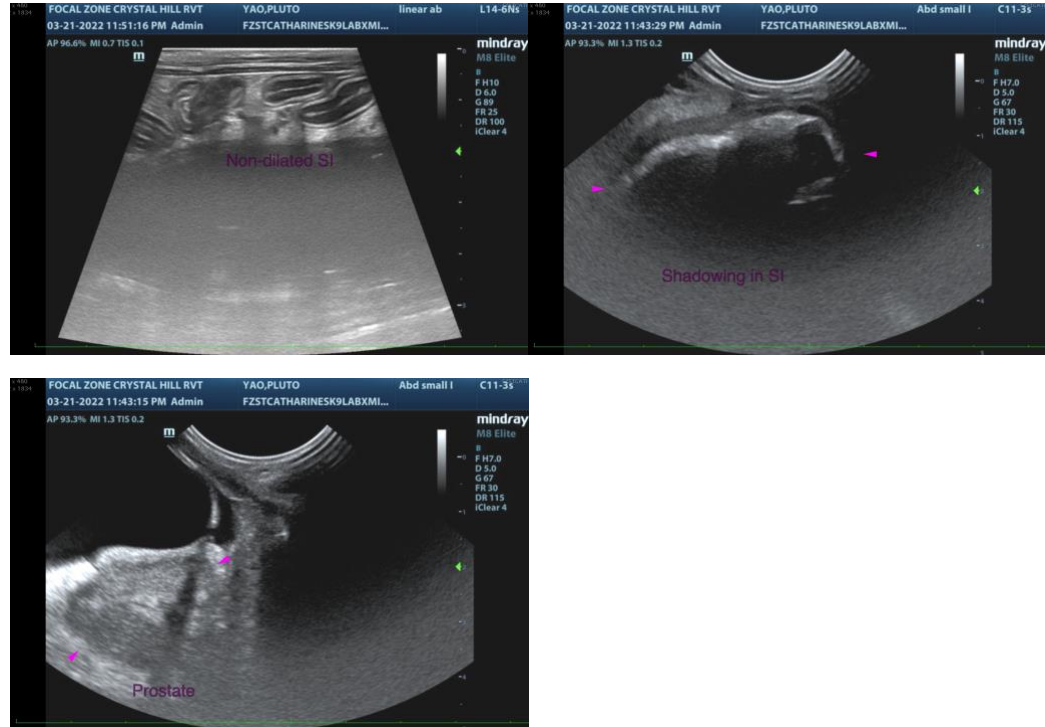
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Andrea Nicastro, DVM, Diplomate DACVIM (Small Animal Internal Medicine)
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