

PATIENT

PRESENTING CLINICAL SIGNS

Midas Daly

Presented for weight loss, anorexia, and lethargy

SPECIES

Abnormal PE/Chem/CBC/UA Results: Pt is underweight, pale mucosa. Pt has HCT 13%, reticulocytes are inadequate. Slightly increased BUN, slightly increased ALT. AXR/CXR show right kidney is irregular in shape and smaller than the left more normal appearing kidney. FeLV/FIV neg. UA, PCR anemia panel, FeLV bone marrow FA, bone marrow cytology are pending.

Feline

BREED

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

DSH

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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

AGE

12yr

The left kidney was mildly prominent in size compared to the right kidney. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. Mild uniform hyperechoic renal cortices with mildly enhanced indistinct corticomedullary border demarcation were present. Discrete hyperechoic medullary striations were present. No pyelectasia. No overt evidence of left or right retroperitoneal effusion was noted. The left kidney measured 4.7 cm in length. The right kidney measured 4.0 cm in length.

WEIGHT

11lb

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

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The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.48 cm width. The right adrenal gland was mildly prominent in size without overt evidence of neoplastic criteria measuring 0.60 cm in width.

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

Spleen

IMAGING
PERFORMED BY

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. No masses or nodules noted. The spleen measured 0.75 cm in width at the level of the hilus.

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Liver

REFERRING VET

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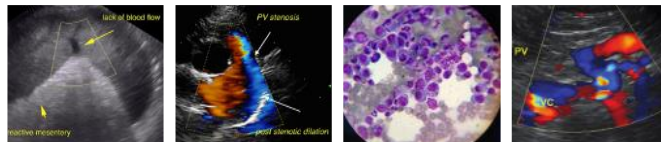
The liver presented mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with primarily anechoic luminal content. No evidence of gallbladder or peripheral gallbladder inflammation was present. The common bile duct was mildly dilated and tortuous without overt post hepatic obstruction.

INVOICE

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PATIENT

Gastrointestinal

Midas Daly

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild nonshadowing ingesta/chyme with no signs of ileus, obstruction or foreign material. The gastric body wall measured 0.24 cm in width.

SPECIES

Feline

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. The duodenum wall measured 0.23 cm width. The jejunum wall measured 0.22 cm width. The ileocolic wall measured 0.30 cm width.

BREED

DSH

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

Pancreas

SEX

MN

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.

AGE

12yr

Free Abdomen

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

WEIGHT

11lb

- Bilateral interstitial nephrosis pattern
- Subjective mild hepatomegaly
- Mild non-obstructive proximal common bile duct dilation, sonographically normal gall bladder
- Sonographically normal GI tract with mild gastric ingesta/chyme

INTERPRETED BY

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The renal presentation was non specific and may indicate chronic renal disease or nephritis with early renal neoplastic criteria i.e. lymphoma which may present similarly cannot be excluded. Given the ALT elevation, mild hepatomegaly and CBD dilation, cholangitis/cholangiohepatitis is possible although occult hepatic neoplasia could be present.

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Pending additional diagnostics including bone marrow FNA, a screening hepatic +/- renal cortex FNA cytology assuming normal clotting status and using a 25g needle may be considered for further clarification. A

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GI panel to include PLI/TLI/Cobalamin/Folate is recommended to assess for occult pancreatic or intestinal disease as a contributing factor to weight loss and GI signs.

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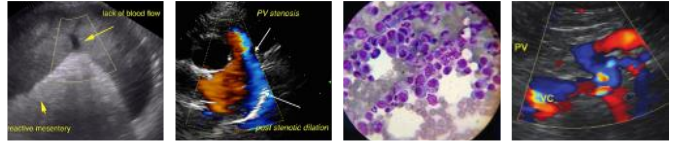
Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

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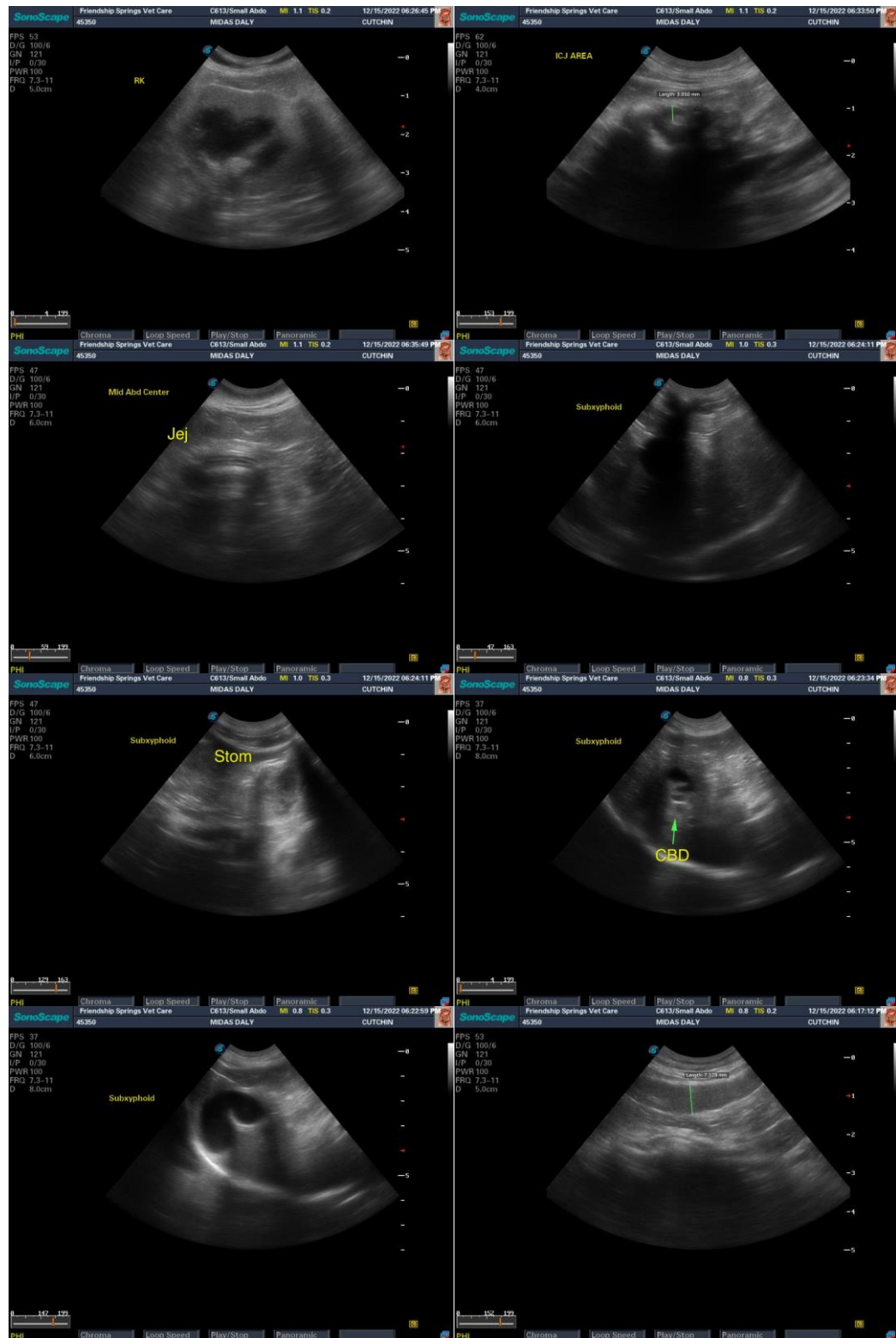
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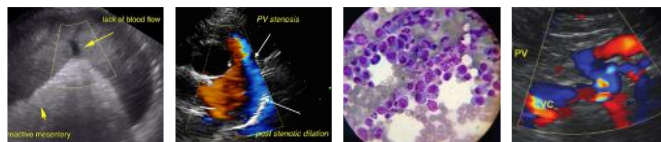
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com