



**PATIENT PRESENTING CLINICAL SIGNS**

Nala Morales

Last night patient vomited blood 3 times one hour from each one. Had black stool this morning and has a Sore on right thigh. No appetite today. No coughing or sneezing. Eats pedigree dry.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: CBC (7/22/23) :RBC 3.62 M/ $\mu$ L,HCT 24.2%, HGB 7.7 g/dL, PLT 116 K/ $\mu$ L CBC (7/28/23) : RBC 1.79M/ $\mu$ L, HCT 13%, HGB 4 g/dL, PLT 103K/ $\mu$ L CBC (7/29/23) : RBC 2.55M/ $\mu$ L, HCT 18.7%, HGB 5.8 g/dL, PLT 146K/ $\mu$ L CBC Path Review: There is an anemia that appears non-regenerative to marginally regenerative based on the degree of polychromasia. However, a reticulocyte count is recommended for further interpretation. The cause is not apparent. Differentials include early hemolysis or hemorrhage (<3-4 days), anemia of chronic disease (chronic inflammation, occult neoplasia, renal/hepatic/endocrine disease, infectious), or bone marrow disease. No hemotropic organisms or morphologic abnormalities (e.g. spherocytes) are present. The platelet density is adequate with platelet clumps present. The platelet estimate in the monolayer is 219,000/uL.

**BREED**

Cocker Spaniel x

**SEX**

Spayed Female

**AGE**

14 Years

**WEIGHT**

17 Pounds

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Mineralization noted in both kidneys. An anechoic cyst was noted in the caudal pole of the left kidney. The left kidney measured 4.13 cm. The right kidney measured 5.33 cm.

**IMAGING PERFORMED BY**

Dr. Yaniris Alvarado

**Adrenal Glands**

**HOSPITAL NAME**

Ramey Vet Hospital

The **adrenal glands** were not visualized.

**Spleen**

**REFERRING VET**

Dr. Yaniris Alvarado

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

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**Liver**

**DATE**

7/29/23

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory,



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infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

**Gastrointestinal**

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

**Pancreas**

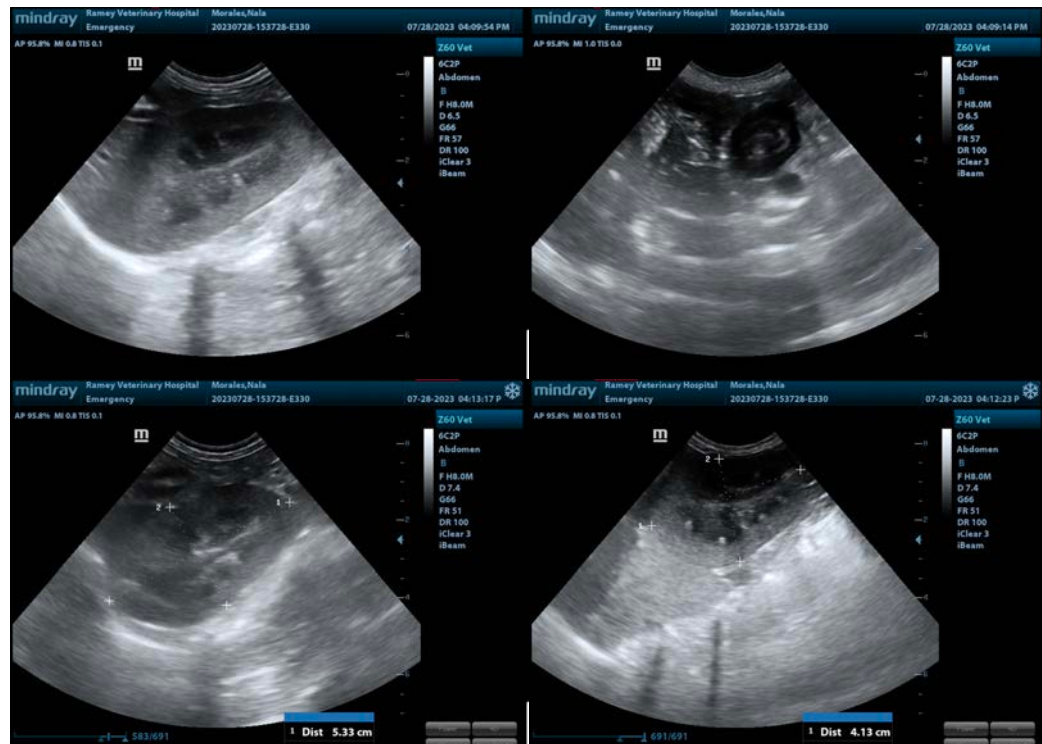
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**ULTRASONOGRAPHIC FINDINGS**

- Structurally unremarkable abdomen with age related renal and hepatic changes

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No evidence of visceral disease based on image set and resolution. The cause of anemia is unclear. CBC path review +/- bone marrow aspirates indicated. GI blood loss is as potential, given the patient history, yet no overt ulcers noted at the resolution provided.





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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.

**SPECIES**

Canine

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.

**BREED**

Cocker Spaniel x

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

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