

PATIENT

Leia Helwig

SPECIES

Canine

BREED

Australian Shepherd
Mix

SEX

Spayed Female

AGE

7 Years

WEIGHT

79 Pounds

INTERPRETED BY

Eric Lindquist, DMV,
DABVP (CFM), Cert.
IVUSS

IMAGING PERFORMED BY

Kaitlyn Rudie, DVM

HOSPITAL NAME

Sherwood Family VC

REFERRING VET

Michelle Janik, DVM

INVOICE

36463

DATE

3/31/26

PRESENTING CLINICAL SIGNS

Presented 3/27 for several weeks of behavior change characterized by staring and uncharacteristic aggression. Concerns on bloodwork (anemia, leukopenia) and discomfort on abdominal palpation prompted abdominal ultrasound.

Abnormal PE/Chem/CBC/UA Results: On exam 3/27, guarded on abdominal palpation, growling during palpation. See attached BW. Fecal negative. Recheck CBC today on in house showed slightly improved anemia (HCT 32.3%) which was still non-regenerative.

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. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some mild 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 this age patient. Medullary structure differed distinctly from that of the cortex. Slight pyelectasia was noted in the left kidney. The left kidney measured 6.9 cm. The right kidney measured 7.0 cm.

Adrenal Glands

The **adrenal glands** were not visualized.

Spleen

The **spleen** was normal size and relatively normal contour with multifocal hyperechoic areas of mineralization. This is a benign change; however, can be related to Cushing's disease or other endocrinopathies.

Liver

The **liver** revealed generalized enlargement and diffuse hyperechogenicity. The gallbladder and common bile duct were unremarkable.

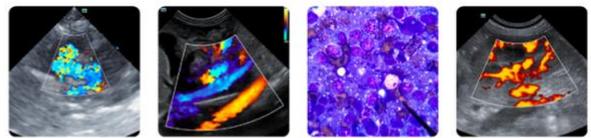
Gastrointestinal

The **gastrointestinal tract** revealed minor areas of muscularis hypertrophy. Retention of ingesta was noted in the stomach, then continued into the small intestine. Can't rule out foreign matter, depending on when the patient ate prior to sonogram. The colon was unremarkable.

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



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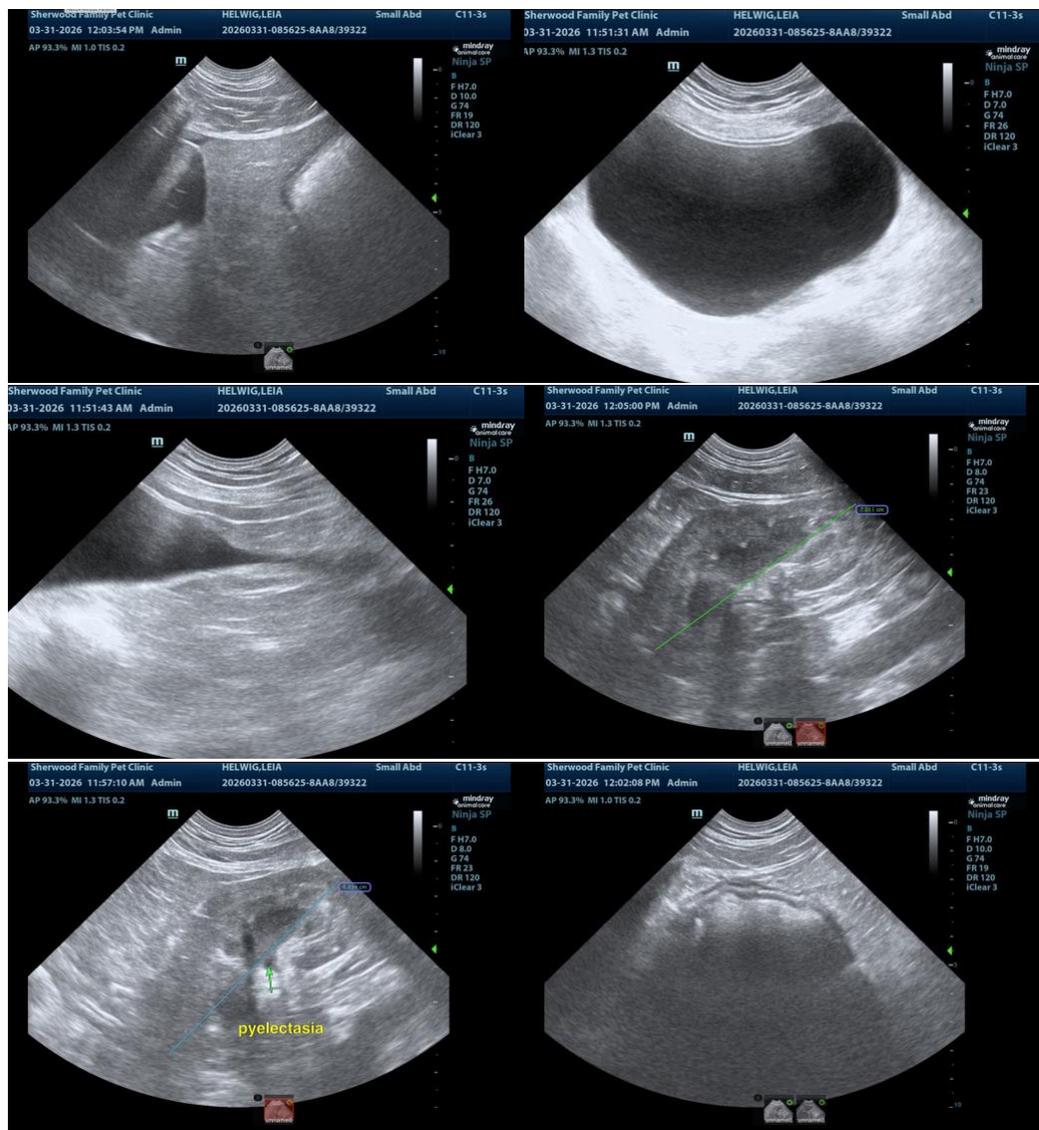
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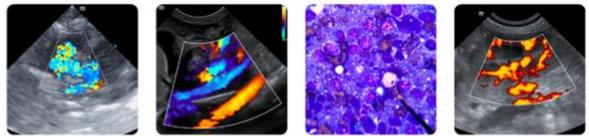
3/31/26

- Mineralized spleen
- Retention of ingesta
- Minor areas of muscularis hypertrophy in the GI tract
- Generalized hepatic enlargement and diffuse hyperechogenicity
- Age-related renal changes and slight left kidney pyelectasia

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The mineralized spleen would suggest endocrinopathy. If adrenal disease is suspected, further imaging under sedation is indicated. The cause of anemia is unclear, no evidence of organ pathology. Diagnosis is open. CBC path review, +/- bone marrow aspirates maybe indicated. GI protectant protocol could be considered, from an empirical standpoint, if GI blood loss is a concern.





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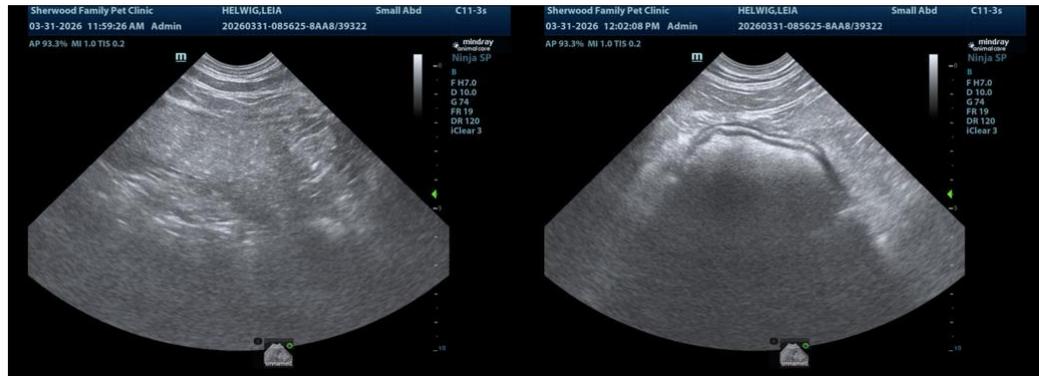
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP(CFM), Cert. IVUSS,
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