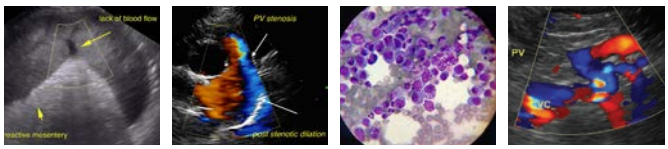


SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT
Hayley Woebbe

SPECIES
Canine

BREED
Schnauzer X

SEX
Spayed Female

AGE
10 Years

WEIGHT
34.4 Pounds

INTERPRETED BY
Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY
Dr. Goodman

HOSPITAL NAME
Evendale Blue Ash PH

REFERRING VET
Dr. Goodman

INVOICE
39002

DATE
6/22/22

PRESENTING CLINICAL SIGNS

Recheck ultrasound from 2/9/22. Since her recheck she has been doing well at home, no concerns from the owner. Presented on 6/3/22 for annual wellness with CBC/Chem/UA/T4/4DX to lab. Results showed ALT and ALP elevated from lab work done on 2/9/22 (results attached with comparison). no medications currently.
Abnormal PE/Chem/CBC/UA Results: 2/9/22: ALT - 140 ALP - 1100 6/3/22: ALT - 245 ALP – 4312

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 **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. The left kidney measured 5.05 cm. The right kidney measured 5.26 cm.

Adrenal Glands

Both **adrenal glands** were slightly heterogeneous. The right adrenal gland measured 0.70 cm at the cranial pole and 0.60 cm at the caudal pole. The left adrenal gland measured 0.70 cm at the cranial pole and 0.70 cm at the caudal pole.

Spleen

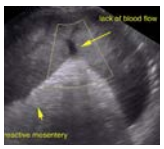
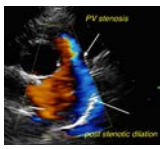
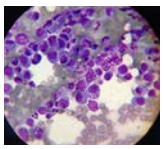
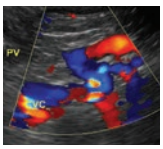
The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or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

Liver

Exam of the cranial abdomen demonstrated excessive **liver** size, swollen contour, with conserved uniform architecture. Parenchymal echogenicity was diffusely isoechoic to the spleen and falciform fat. Minor excessive GB debris was noted with the presence gall bladder dilation and precipitate without the overt formation of mucocele but this may be an issue in the future. This type of liver presentation typically is associated with slow and gradual SAP elevations with low-grade ALT rise. USG-FNA sampling is encouraged if more aggressive LE profiles are present such as ALT > 200 or rapid rise in SAP. These presentations are usually reactive hepatopathies owing to other disease processes either endocrine (Diabetes, Hypothyroidism, Cushing's disease), "antigen surveillance" from the gut/pancreas, or idiopathic breed predisposed progressions.

Gastrointestinal

A minor amount of non-shadowing, non-obstructive ingesta was noted in the **stomach**. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. Small and large intestine demonstrated normal luminal chyme and stool

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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.

PRIMARY FINDINGS

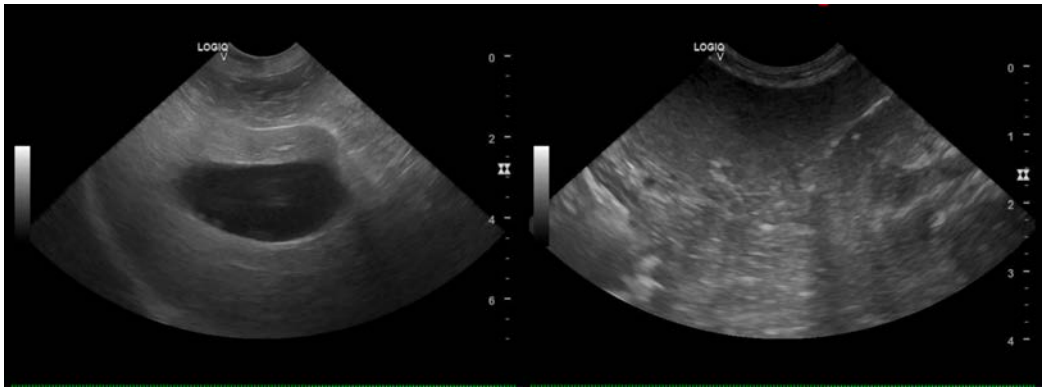
- Benign hepatopathy
- Mildly heterogeneous adrenal glands

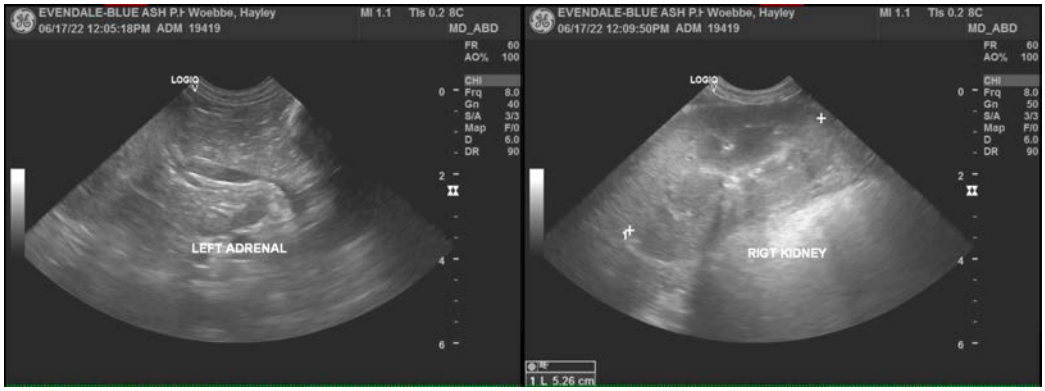
SECONDARY FINDINGS

- Age related renal changes
- Gastric ingesta

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Breed predisposed vacuolar hepatopathy likely. If PU/PD is present, and USG is <1.020 repeatedly, then workup for PDH could be considered. However, the abdomen appears benign.





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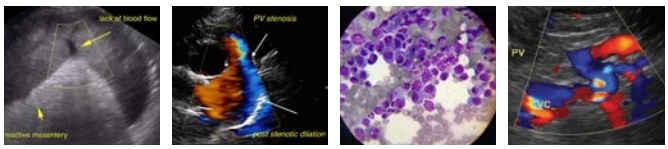

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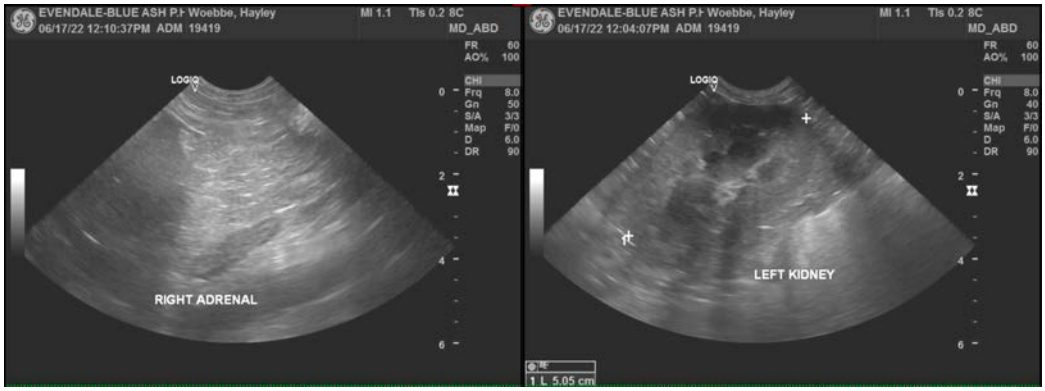

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com