



**PATIENT**

Marley Fiebel

**SPECIES**

Canine

**BREED**

Havanese

**SEX**

Neutered male

**AGE**

15 years

**WEIGHT**

13 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Welch

**HOSPITAL NAME**

Long Valley AH

**REFERRING VET**

Dr. Welch

**INVOICE**

32041

**DATE**

7/28/22

**PRESENTING CLINICAL SIGNS**

History: Ultrasound recommended due to elevated ALT that has recently increased from 226 - 688 in 2 months. Pet started on Denamarin recently. Hx low grade heart murmur but no significant disease noted on ecg or echo performed in 11/2020. Hx hypothyroidism - on thyrotabs and well regulated.

**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 was 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 right and left kidney measured 4.0 cm.

**Adrenal Glands**

The left **adrenal gland** was uniform and measured 0.5 cm. The right adrenal gland had minor heterogenous changes, but contained with normal size and contour. There was no evidence of vascular invasion. The right adrenal gland measured 0.8 cm at the cranial pole and 0.6 cm at the caudal pole.

**Spleen**

The **spleen** revealed a slight, hypoechoic 0.5 cm nodule in the mid body with minor coarse architecture noted elsewhere.

**Liver**

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

**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.



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**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.

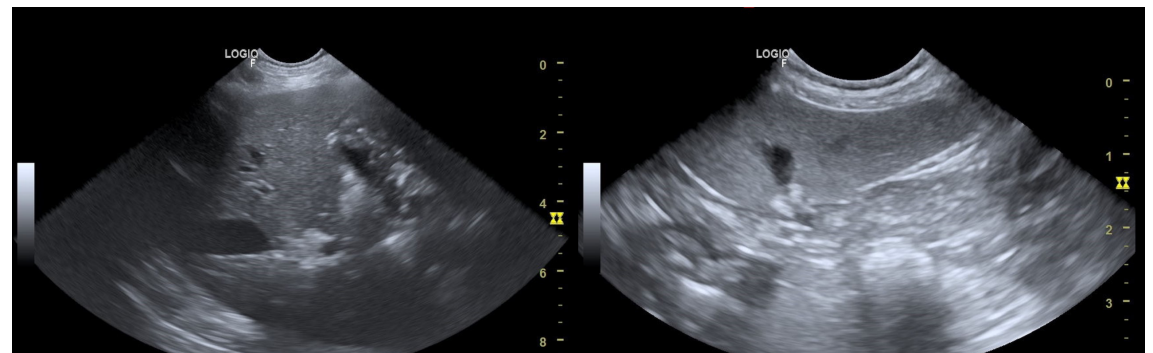
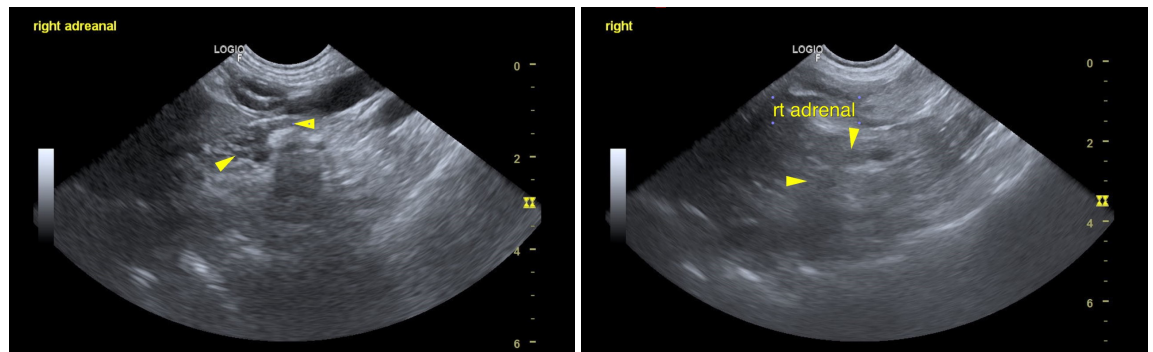
**ULTRASONOGRAPHIC FINDINGS**

Non-specific reactive or low-grade inflammatory hepatopathy.

Age related renal changes.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There was no evidence of significant disease. FNA could be considered for further definition of inflammatory cell type.





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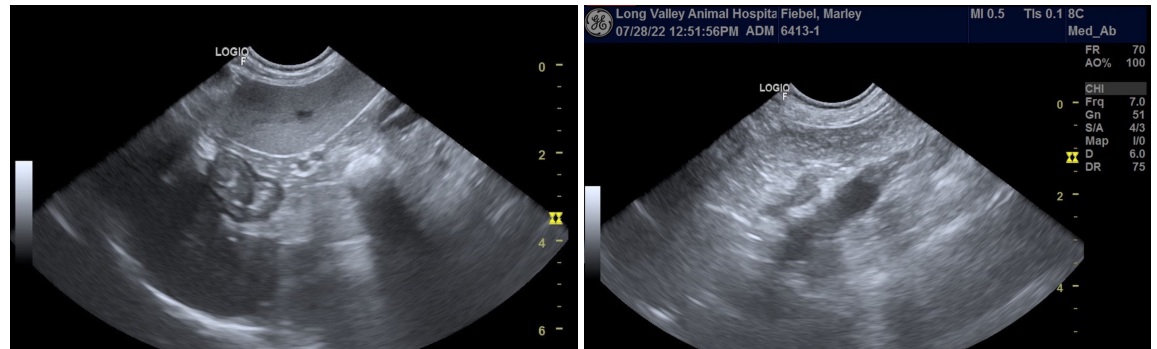
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
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