



**PATIENT PRESENTING CLINICAL SIGNS**

Apple Ferraro

presented on 1/9/21 for inappetence, low fecal production that P had elevated liver enzymes (ALP and ALT). AFAST revealed free fluid around kidneys and liver. After hospitalization on IV fluids, Enrofloxacin, buprenorphine, metoclopramide, cisapride, P is now eating, drinking, urinating and defecating normally.

**SPECIES**

Rabbit

Abnormal PE/Chem/CBC/UA Results: 1/9/21: ALT 1416, ALP 244, TBIL 1.4, TP 7.4, GLOB 4.9, ALB 2.5. 1/10/21: ALP 207, ALT 942, TP 6, GLOB 4.2, ALB, 1.8

**BREED**

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**SEX**

Spayed Female

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.

**AGE**

7 months

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The kidneys measured 2.0 cm each.

**WEIGHT**

2 lbs 13 oz

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**Adrenal Glands**

The **adrenal glands** were not visualized.

**IMAGING PERFORMED BY**

Tiffany Moore Taylor  
Parker

**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 was noted.

**HOSPITAL NAME**

Lone Mountain AH

**REFERRING VET**

Dr. Moore

**Liver**

The **liver** presented increased portal markings and coarse architecture. The hepatic veins appear slightly dilated. This would be normal if the patient was sedated at the time of the sonogram. The gallbladder was thickened. This is consistent with cholangitis.

**INVOICE**

95164

**Gastrointestinal**

**DATE**

1/11/22

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



**PATIENT**

demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Apple Ferraro

**SPECIES**

**Pancreas**

Rabbit

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.

**BREED**

**Free Abdomen**

**SEX**

A minor amount of free fluid was noted in the abdomen. This may be owing to passive congestion or portal hypertension.

Spayed Female

**AGE**

**ULTRASONOGRAPHIC FINDINGS**

7 months

Cholangiohepatitis liver pattern with passive congestion pattern.

**WEIGHT**

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

2 lbs 13 oz

Assessment for right heart disease as well as treatment for cholangiohepatitis is warranted. Portal hypertension with passive congestion may be the cause of ascites combined with coccidiosis is a strong potential. However, diffuse liver disease appears to be the primary issue. Underlying portal hypoplasia/microvascular dysplasia may also be playing a role. The prognosis is guarded.

**INTERPRETED BY**

Eric Lindquist, DMV  
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**PATIENT**

Apple Ferraro

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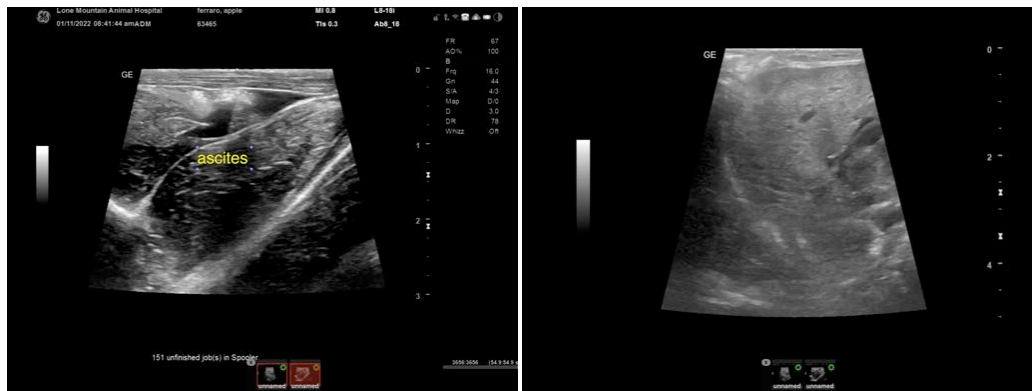
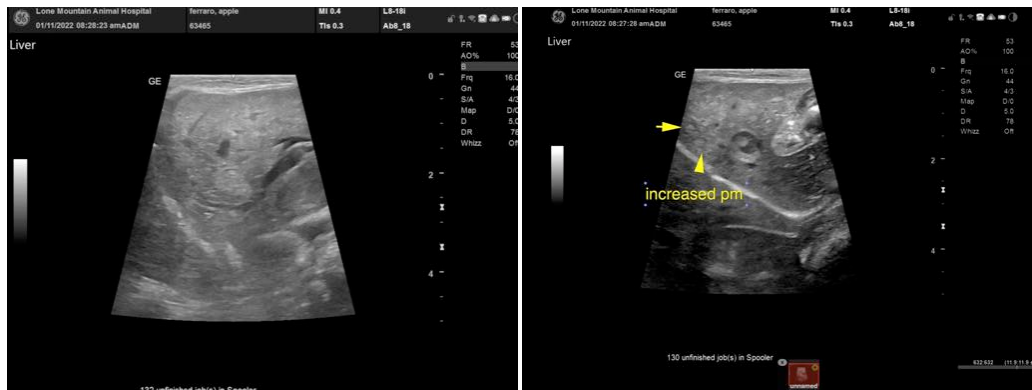
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**DATE**

11/11/22



The information and recommendations provided are based on the images presented by the referring veterinarian. 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.



**PATIENT**

Apple Ferraro

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

**SPECIES**

Rabbit

**BREED**

**SEX**

Spayed Female

**AGE**

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