



**PATIENT PRESENTING CLINICAL SIGNS**

Henry Rollins JR  
Maxwell

**SPECIES**

Canine

**BREED**

Catahoula Leopard  
Dog

**SEX**

Neutered male

**AGE**

12 years

**WEIGHT**

42.2 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Jessica Miller, RDMS

**HOSPITAL NAME**

Vetco Total Care  
Kinnelon

**REFERRING VET**

Dr. Sarmiento

**INVOICE**

92516

**DATE**

10/20/21

History: Recheck post-op cystic cholangiocarcinoma only able to be partially resected on August 5, 2021. Current meds: Atopica 100mg SID, Omeprazole 20mg SID, Pentoxifylline ER 400mg BID, Biotin 5000mcg SID, Gabapentin 100mg BID, Famotidine 20mg SID, Galliprant 60mg SID, Melatonin 3mg BID, Niacinamide 500mg BID, Fortiflora, Entero Tru Benefits, Hepato Tru Benefits, Omega-Pet with DHA and EPA, Concentrated stasis breaker, Vit E, Yunnan Baiyaonor Yunnan Hongyao, Neo-Poly-Dex Ophthalmic Suspension, Denamarin Advanced, Concentrated Wei Qi Booster, Concentrated Liver Happy, Glandex, B-12 1mL SQ Q1W  
Abnormal PE/Chem/CBC/UA Results: MCH 20.9, Ret Hemoglobin 21.3, SDMA 15, Phos 6.6, ALT 247, ALP 590, Chol 458

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 3.0 cm beyond the cystourethral junction. 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 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 right kidney measured 6.5 cm. The left kidney measured 6.18 cm.

**Adrenal Glands**

The left **adrenal gland** was slightly heterogenous and measured 0.77 at the caudal pole, 0.55 cm at the cranial pole and 2.13 cm in length. The right adrenal gland was mildly heterogenous and measured 2.21 x 1.14 cm at the cranial pole and 0.46 cm at the caudal pole. There was no evidence of adrenal pathology. The changes are expected for this age patient.

**Spleen**

The **spleen** revealed minor, heterogenous parenchymal changes with a non-disruptive 0.71 x 0.46 cm nodule. The spleen was folded upon itself caudally. This is a normal patient variant. Other heterogenous, subjectively benign changes were noted in the spleen.

**Liver**

The **liver** in this patient presented macronodular changes and increased portal markings. The liver revealed irregular contour with enhanced surrounding mesentery. The gallbladder was unremarkable. A significant amount of remodeling was present with irregular contour.



**PATIENT**

**Gastrointestinal**

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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.

**SEX**

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**Free Abdomen**

Enhanced, surrounding mesentery is concerning for an actively emerging process.

**AGE**

12 years

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

42.2 lbs

Chronic hepatic changes with potential reemerging cholangiocarcinoma or other neoplastic process in the left liver.

Moderate hepatic remodeling.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

Geriatric abdominal changes otherwise.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Compared to the description of the prior sonograms the heterogenous changes in the liver appear fairly similar. However, if the patient is clinical such as weight loss or anorexia then ultrasound-guided FNA of the areas in question is recommended. The enhanced mesentery is concerning. Given the diffuse nature of the disease within the liver I recommend bile acid profile to assess for any dysfunction. There was no evidence of lymphadenopathy noted. The gallbladder and portal hilus appeared intact. Hepatic support protocol is likely in this patient's best interest. The degree of medical adjustment will depend if bile acid elevations are evident.

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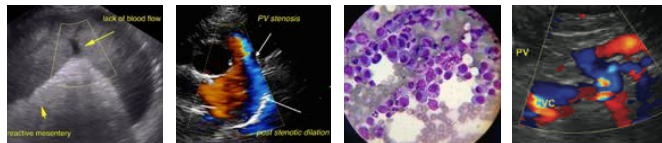
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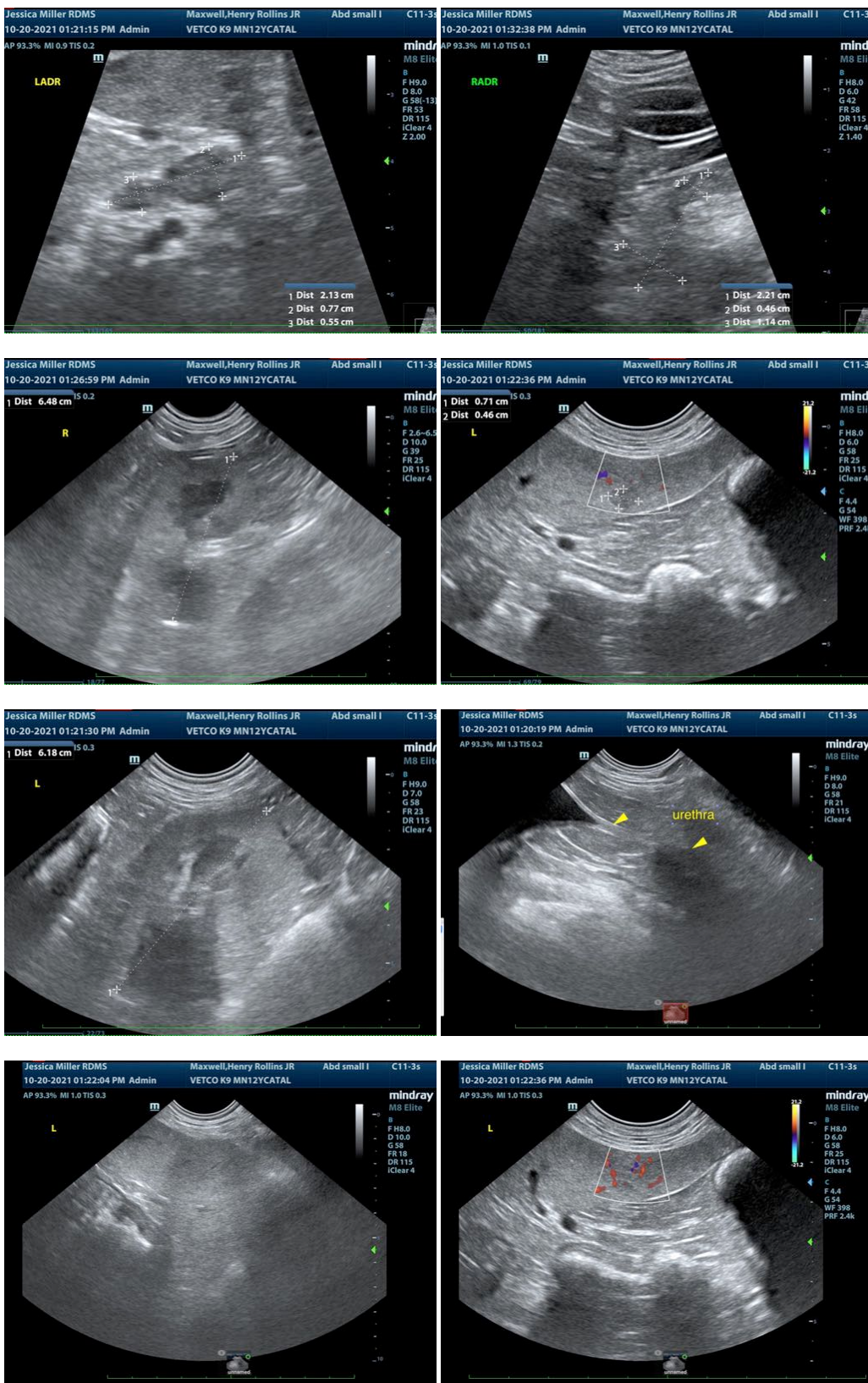
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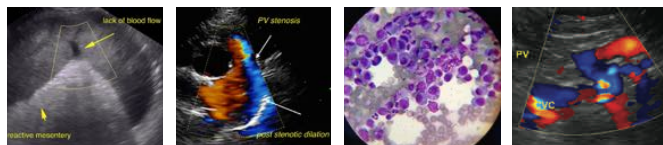
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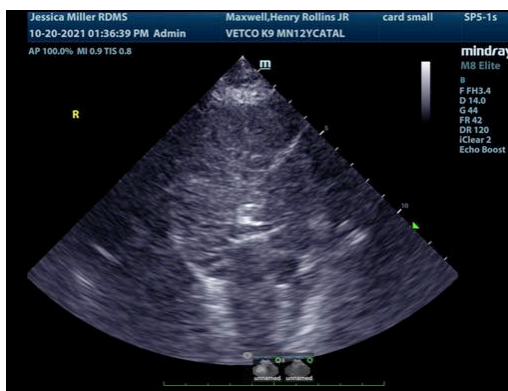
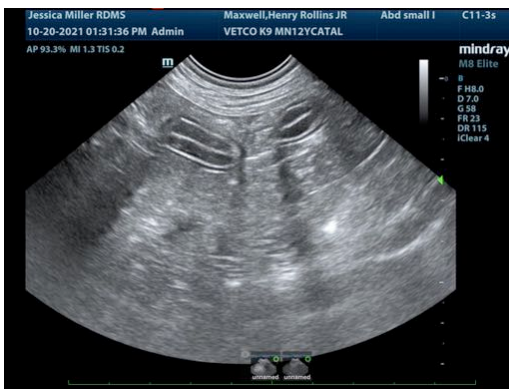
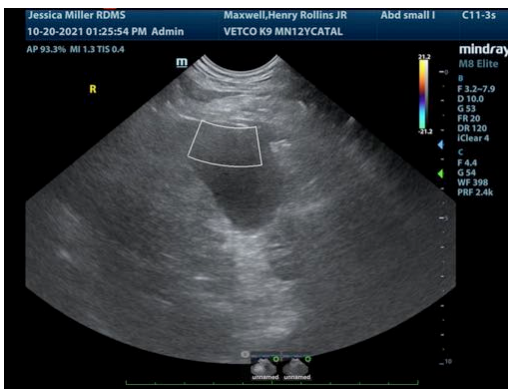
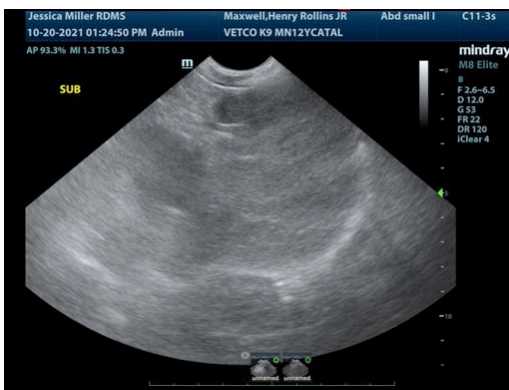
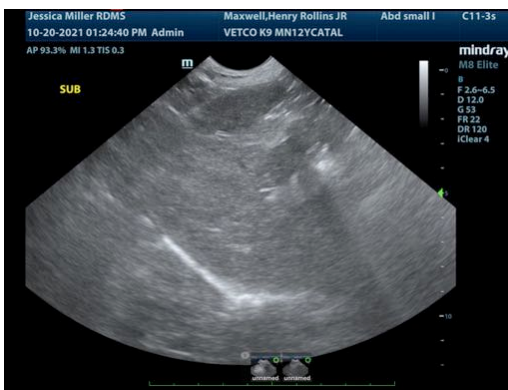
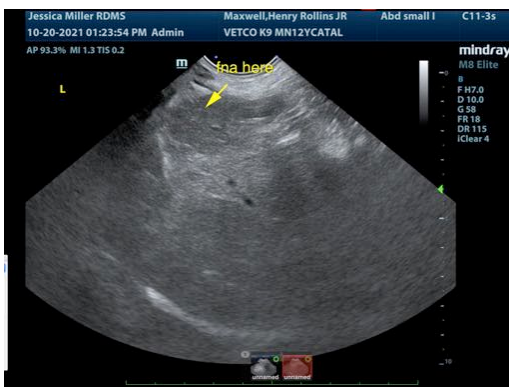
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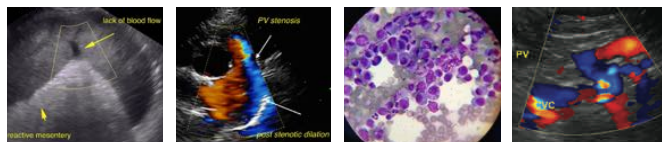
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veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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

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