



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Mocha Schene  
**SPECIES** Canine  
 Patient has a history of elevated ALT since May 2020. Patient also has significant arthritis. Currently on Amantadine 100mg SID. Galliprant 60mg SID. Flexadin Advanced. Denamarin 425mg SID. The liver values have been stable on these medications. Previous U/S report 8/19/21 (R. McKenzie Daniel, DVM, DABVP, Sonopath) Mild hepatomegaly with generalized increased parenchyma echogenicity and multifocal subtly hypoechoic parenchymal nodules. Moderate gallbladder debris (non-mucocele). Heterogeneous pancreas. Mild age-related kidneys with scant pyelectasia.

**BREED** Abnormal PE/Chem/CBC/UA Results: SDMA 16, ALT 228, GGT 14, Chol 388

**Bearded Collie ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**SEX** MN  
 The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

**AGE** 12y 9mo  
 Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. Previously noted scant pyelectasia noted in both kidneys. The left kidney measured 6.3 cm in length. The right kidney measured 5.5 cm in length.

**WEIGHT** 61.8lb  
 The area of the residual prostate was free of pathology measuring 0.77 cm in diameter.

The area of the aortic trifurcation was free of pathology.

**INTERPRETED BY**

R. McKenzie Daniel, DVM, DABVP (Canine and Feline)

**Adrenal Glands**

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.61 cm width in the cranial pole and 0.77 cm width in the caudal pole. The right adrenal gland measured 0.61 cm width in the cranial pole and 0.67 cm width in the caudal pole.

**IMAGING PERFORMED BY**

Pamela Harrigan, RDCS

**Spleen**

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease.

**HOSPITAL NAME**

Anchor Animal Hospital

**REFERRING VET**

Dr. Pietsch

**Liver**

The liver was enlarged in size with symmetrical contour. Generalized mild non-uniform increased parenchyma echogenicity with static appearing intermittent non-disruptive hyperechoic nodules were present. An example of an intraparenchymal nodule measured 1.6 cm in diameter.

**INVOICE**

11388ag

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with static hyperechoic non-organized debris in the caudal lumen and gallbladder neck. The cystic and common bile ducts were normal.

**DATE**

08/18/2022

**Gastrointestinal**



**PATIENT**

Mocha Schene

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

**SPECIES**

Canine

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Mild segmental hyperechoic mucosal speckling was present. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. The duodenum wall measured 0.71 cm in width. The jejunum wall measured 0.33 cm in width.

**BREED**

Bearded Collie

Normal visible colon wall layers were present with apparent formed feces in lumen.

**Pancreas**

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

**SEX**

MN

**Free Abdomen**

No omental masses, lymphadenopathy or peritoneal effusion was present.

**AGE**

12y 9mo

**ULTRASONOGRAPHIC FINDINGS**

- Chronic hepatopathy exhibiting similar appearing parenchyma and non-disruptive hypoechoic parenchymal nodules
- Static gallbladder debris (non-mucocele)
- Age related renal changes with scant pyelectasia
- Segmental nonspecific small intestinal mucosal speckling

**WEIGHT**

61.8lb

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Overall the appearance of the liver was similar to previous studies without evidence of overt progressive parenchymal changes. Vacuolar, non-specific hepatitis, early fibrosis, cirrhosis, focal areas of nodular hyperplasia, hematopoiesis or other hepatopathy are possible. Neoplasia considered unlikely. Assuming normal clotting status and using a 25g needle a hepatic FNA is recommended for screening cytology. Continued hepatosupportive medications would be appropriate. The small bowel mucosal speckling in non-specific and may be an incidental finding.

**INTERPRETED BY**

R. McKenzie Daniel, DVM,  
 DABVP (Canine and Feline)

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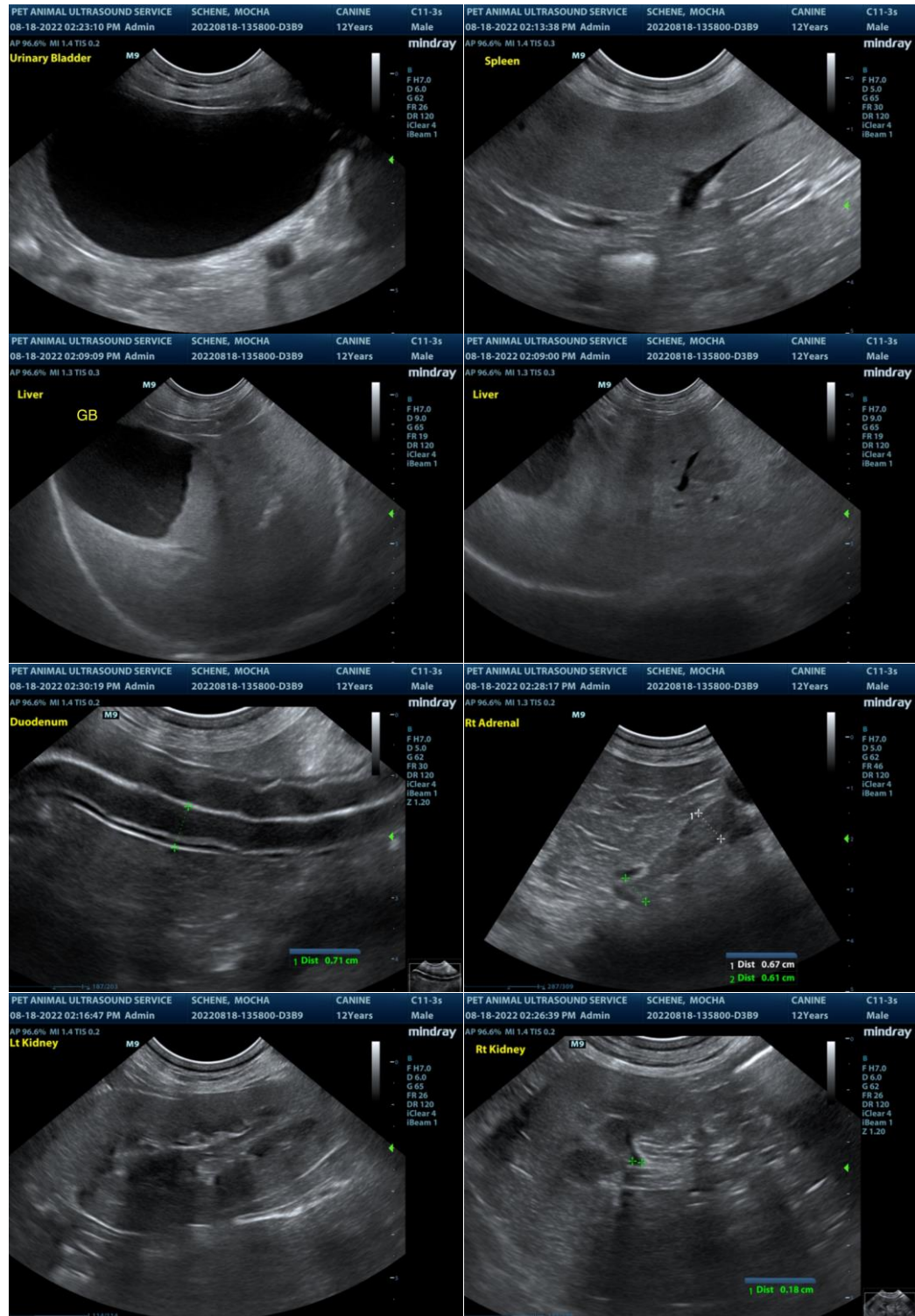
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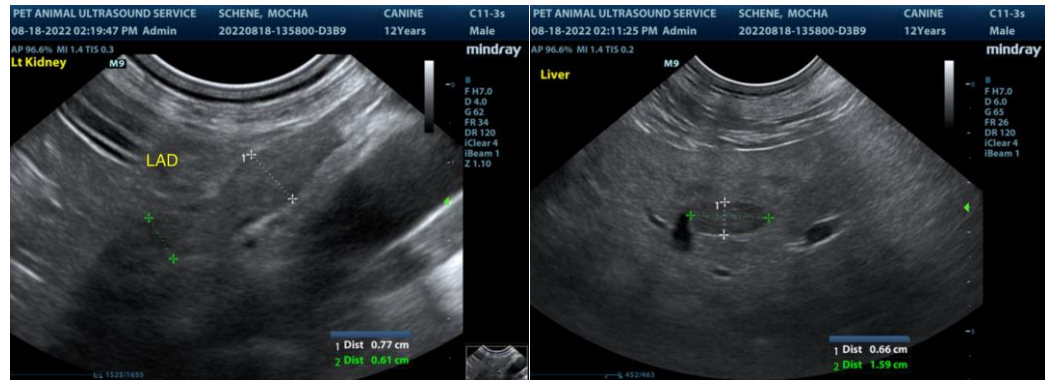
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)  
 info@SonoPath.com