



PATIENT PRESENTING CLINICAL SIGNS

Abby Shannon Elevated liver enzymes Melatonin/Lignans
 ALT 297, ALP 1290, LDDST Pre- 7.7, 4 HR- 6.1, 8 HR- 9.4

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Maltese Mix

Urinary System

The urinary bladder, trigone, and cystourethral junction 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 was noted.

SEX

FS

No evidence of pathology in the area of the aortic trifurcation.

AGE

2011

Normal size and margination were 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. Small cortical cysts were present in both kidneys. No evidence of pelvic dilation was present. The left kidney measured 4.9 cm in length. The right kidney measured 5.1 cm in length.

WEIGHT

15.7

Adrenal Glands

The bilateral adrenal glands were mild prominent in size with uniformly hypoechoic parenchyma was present. The left adrenal gland measured 0.74 cm width at the caudal pole and 0.64 cm width at the cranial pole. The right adrenal gland measured 0.74 cm width at the caudal pole and 1.0 cm width at the cranial pole.

INTERPRETED BY

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

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.

IMAGING PERFORMED BY
 Rebekah Jakum, CVT
 ARDMS/RVT

HOSPITAL NAME

Community VP

Liver/ Gallbladder

REFERRING VET

Dr. Hulshizer

The liver presented enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. Intermittent discrete hypoechoic parenchymal nodules were present. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with mild, nondependent yet nonorganized gallbladder debris. The gallbladder was otherwise normal. The cystic and common bile ducts were normal.

INVOICE

13501

DATE

3/16/22



PATIENT *Gastrointestinal*

Abby Shannon 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 The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material.

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

BREED *Pancreas*

Maltese Mix The parenchyma of the left limb, body, and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease were evident.

SEX

FS *Free Abdomen*

No overt lymphadenopathy or peritoneal effusion was present.

AGE **ULTRASONOGRAPHIC FINDINGS**

2011 *Primary Findings*

- WEIGHT**
- Hepatopathy exhibiting intermittent, discrete hypoechoic nodules
 - Mild gallbladder debris (non-mucocele)
 - Bilateral mildly prominent adrenal glands
 - Age-related kidneys with small cortical cysts

15.7

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DVM, DABVP
(Canine and Feline)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overall, the appearance of the liver is suggestive of vacuolar hepatopathy or vacuolar hepatitis with minor parenchymal remodeling.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
ARDMS/RVT

No overt evidence of left or right adrenal tumor, which is suggestive of pituitary-dependent hyperadrenocorticism based on LDDST results, and if clinical signs consistent with hyperadrenocorticism are present.

HOSPITAL NAME

Community VP Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial.

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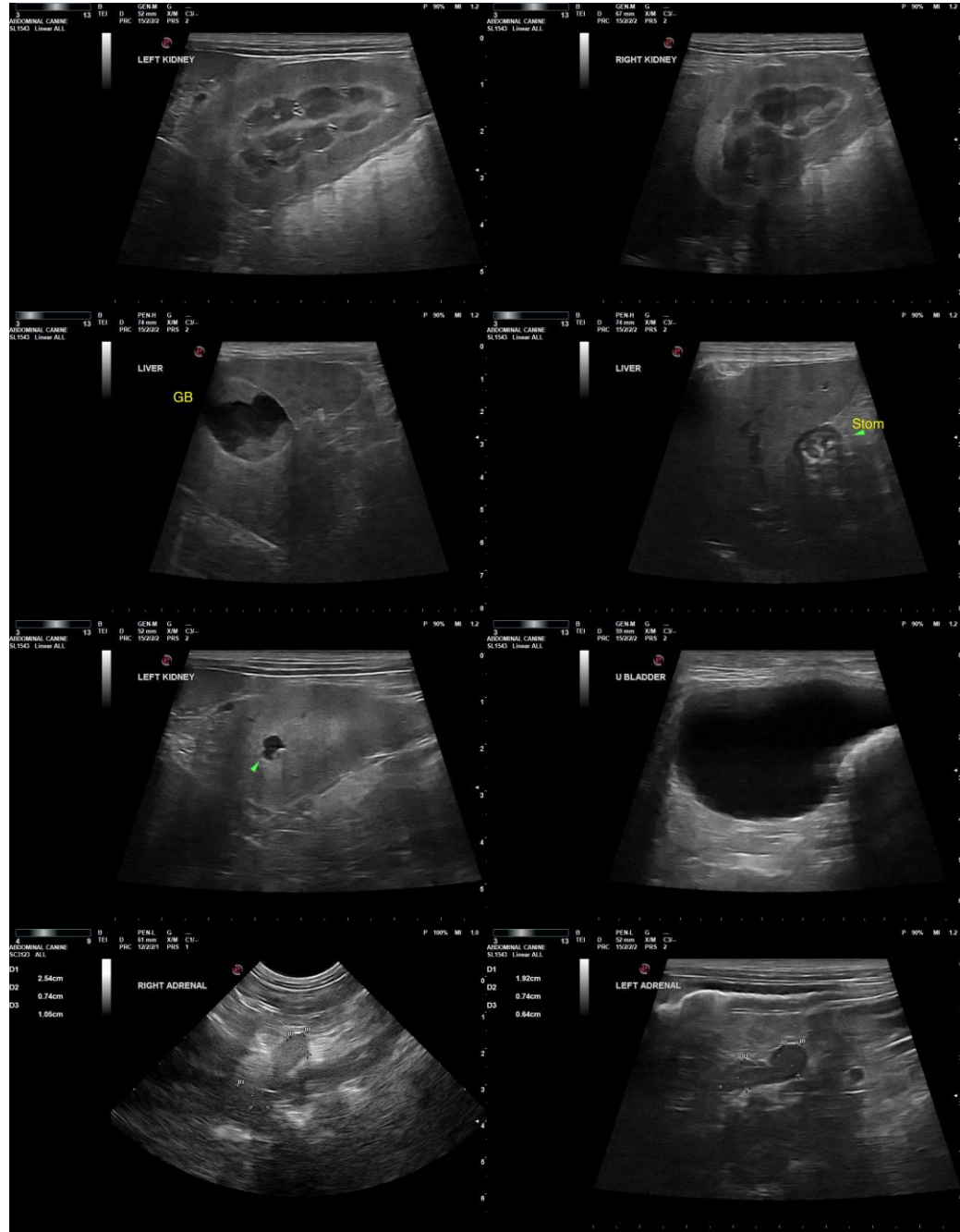
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



PATIENT can be of any further assistance, please contact me.

Abby Shannon

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)

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BREED

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FS

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