



**PATIENT PRESENTING CLINICAL SIGNS**

Waffles Deloglos Elevated liver values, epileptic.

Medication: Phenobarbital, Denamarin

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine

**Urinary System**

**BREED**

Poodle Mix

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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.

**SEX**

MN

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 4.2 cm in length. The right kidney measured 4.4 cm in length.

**AGE**

2017

The area of the aortic trifurcation was free of pathology.

The area of the residual prostate appeared normal and free of pathology.

**WEIGHT**

14.4

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.43 cm width at the caudal pole and 1.7 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.39 cm width at the caudal pole and 1.8 cm width at the cranial pole.

**INTERPRETED BY**

R. McKenzie Daniel,  
 DVM, DABVP  
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**Spleen**

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
 ARDMS/RVT

**Liver**

**HOSPITAL NAME**

Community VP

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. 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 primarily anechoic luminal content and mild to moderate nondependent congealed yet mobile sludge. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

**REFERRING VET**

Dr. Hulshizer

**INVOICE**

12340ag

**Gastrointestinal**

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.

**DATE**

12/01/2022

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.



**PATIENT**

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

Waffles Deloglos

**Pancreas**

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 was evident.

**SPECIES**

Canine

**Free Abdomen**

**BREED**

No overt lymphadenopathy or peritoneal effusion was present.

Poodle Mix

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

- Benign hepatopathy
- Moderate gallbladder debris (non-mucocele)

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

MN

Sonographically the appearance of the liver is consistent with benign hepatopathy with primary consideration for metabolic/reactive/vacuolar hepatopathy with some contribution to hepatic enzyme levels likely owing to phenobarbital. Potential for low-grade inflammatory hepatopathy i.e. cholangiohepatitis given the presence of gallbladder debris is possible. Hepatosupportive medications including current Denamarin as well as Ursodiol with monitoring of hepatic enzyme levels or for increasing cholestasis would be reasonable.

**AGE**

2017

**WEIGHT**

14.4

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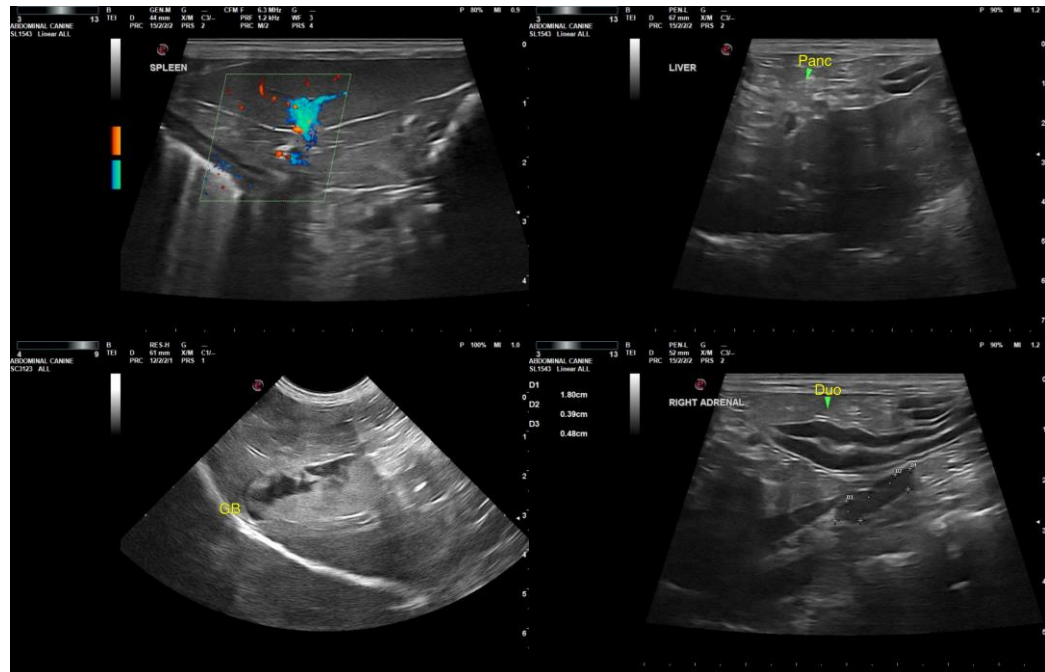
Rebekah Jakum, CVT  
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**HOSPITAL NAME**

Community VP

**REFERRING VET**

Dr. Hulshizer



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**PATIENT**

Waffles Deloglos

**SPECIES**

Canine

**BREED**

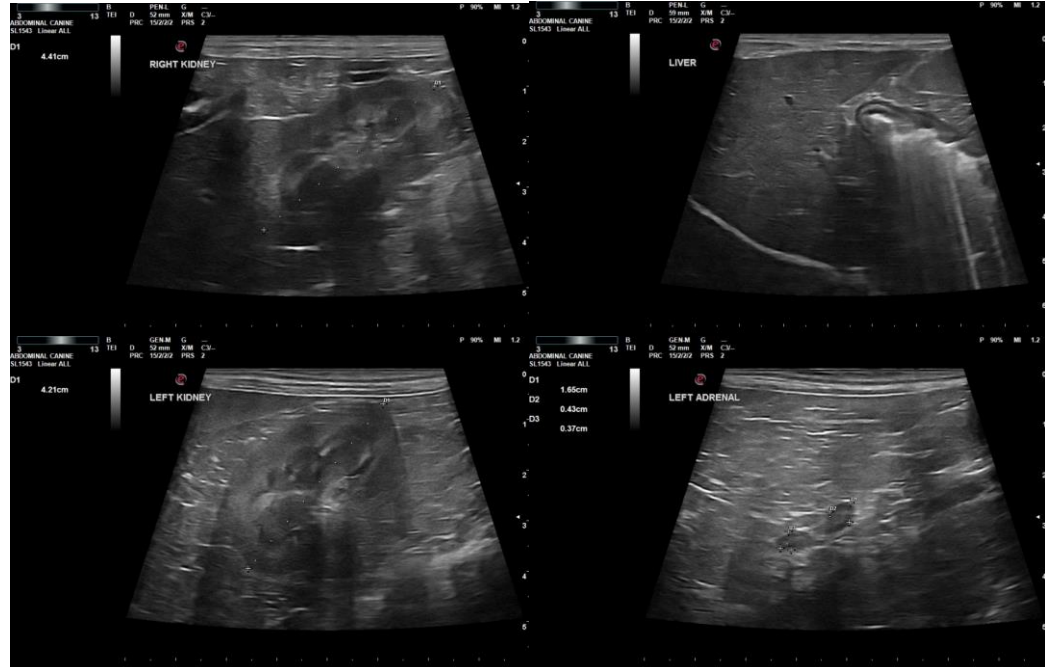
Poodle Mix

**SEX**

MN

**AGE**

2017



**WEIGHT**

14.4

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.

**INTERPRETED BY**

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