



**PATIENT PRESENTING CLINICAL SIGNS**

Cider Wamsley Hasn't had an exam since August 2022  
Abnormal PE/Chem/CBC/UA Results: Very mild ALKP and ALT (Liver) elevations  
Current Medications Hepaticlear

**SPECIES**

Canine

**BREED**

Wheaton Terrier

**SEX**

MN

**AGE**

9yr

**WEIGHT**

42.4lb

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

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.

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 minor loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 5.0 cm in length. The right kidney measured 5.1 cm in length

The area of the aortic trifurcation was free of pathology.

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

**INTERPRETED BY**

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

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.61 cm width at the caudal pole and 0.60 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 0.63 cm width at the caudal pole.

**IMAGING PERFORMED BY**

Sara Hansen

**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.

**HOSPITAL NAME**

The Ark Veterinary  
Clinic

**REFERRING VET**

Dr. Mercer

**Liver/Gallbladder**

The liver was mildly enlarged with maintained symmetrical capsule contour and heterogeneous parenchyma exhibiting remodeling along with variably echogenic nodular changes. An example of a nodule measured 2.1 cm in diameter. No overt hepatic masses. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**INVOICE**

12576ag

**DATE**

12/30/2022

**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.



**PATIENT**

Cider Wamsley

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.

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

**SPECIES**

Canine

**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.

**BREED**

Wheaton Terrier

**Free Abdomen**

**SEX**

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

**MN**

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

9yr

- Moderately heterogenous irregular to nodular liver
- Sonographically normal gallbladder
- Mild age related renal changes

**WEIGHT**

42.4lb

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The appearance of the liver is non-specific with potential considerations including vacuolar hepatopathy, chronic to low grade inflammatory/immune mediated disease, hyperplasia, hematopoiesis, lipogranulomas, fibrosis or other with neoplasia considered less to unlikely. Assuming normal clotting status and using a 25g needle, a hepatic FNA for screening cytology could be considered for further assessment. Hepatosupportive medications such as Denamarin +/- Ursodiol due to its antioxidant and immunomodulatory effects within the liver may prove beneficial. Sonographic reassessment of the liver and gallbladder may be considered if progressive evidence of hepatic enzyme elevations despite medications. Hepatic core surgical biopsy is likely required for a definitive diagnosis.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

The Ark Veterinary  
Clinic

**REFERRING VET**

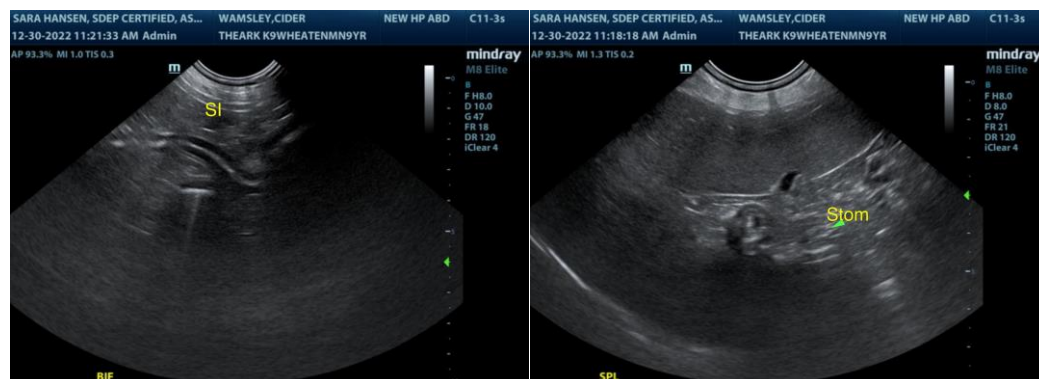
Dr. Mercer

**INVOICE**

12576ag

**DATE**

12/30/2022





**PATIENT**

Cider Wamsley

**SPECIES**

Canine

**BREED**

Wheaton Terrier

**SEX**

MN

**AGE**

9yr

**WEIGHT**

42.4lb

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

The Ark Veterinary  
Clinic

**REFERRING VET**

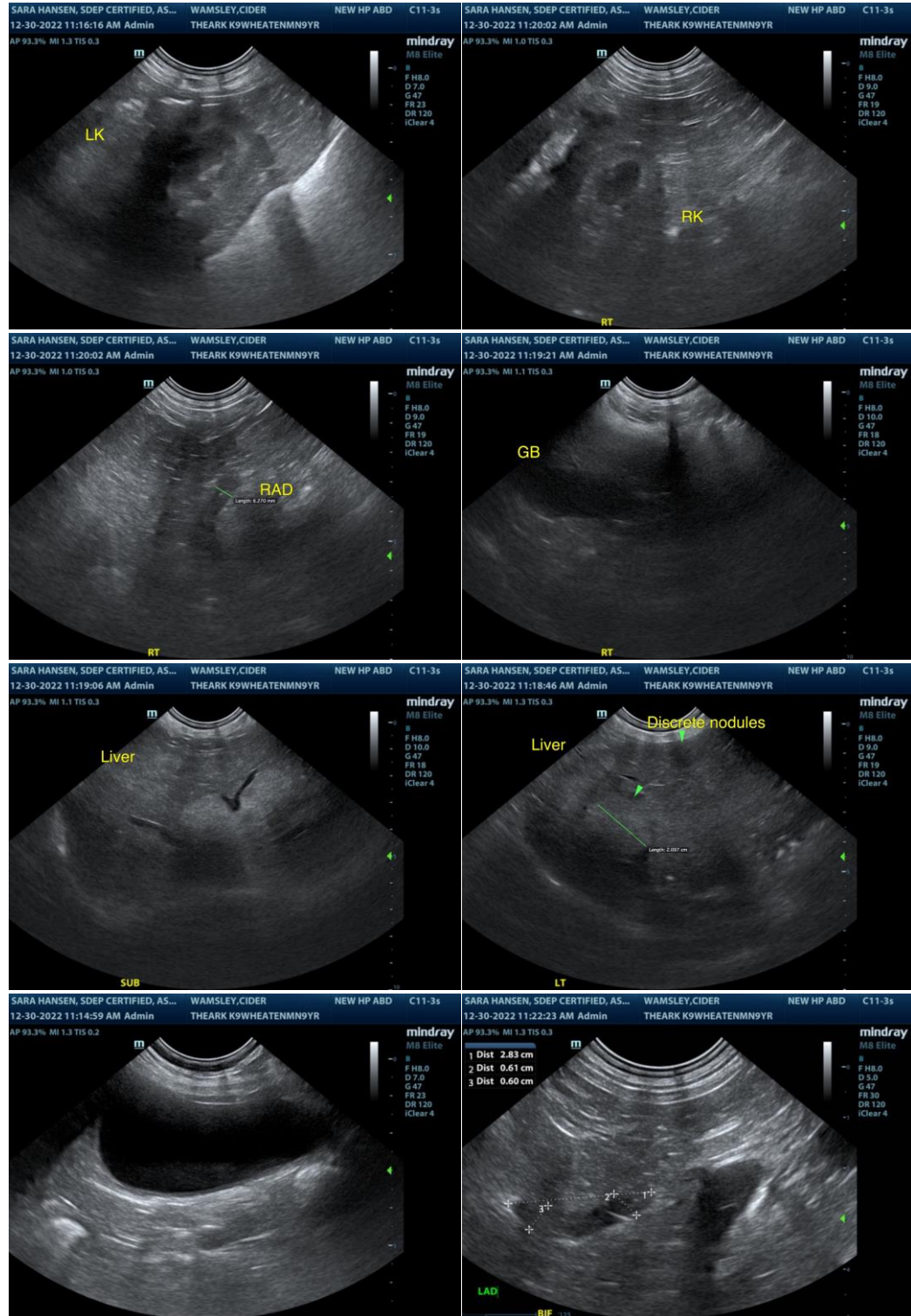
Dr. Mercer

**INVOICE**

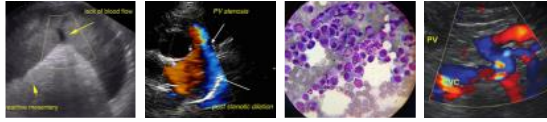
12576ag

**DATE**

12/30/2022



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



**PATIENT** visible in the image/video clips provided.

Cider Wamsley 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.

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

Canine **info@SonoPath.com**

**BREED**

Wheaton Terrier

**SEX**

MN

**AGE**

9yr

**WEIGHT**

42.4lb

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

The Ark Veterinary  
Clinic

**REFERRING VET**

Dr. Mercer

**INVOICE**

12576ag

**DATE**

12/30/2022