



PATIENT

Nicki Cromwell

SPECIES

Canine

BREED

German Shepherd Mix

SEX

Spayed Female

AGE

13 Years 11 Months

WEIGHT

76 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Mack

HOSPITAL NAME

Northside VC

REFERRING VET

Dr. Mack

INVOICE

16365

DATE

6/27/22

PRESENTING CLINICAL SIGNS

History: Mild elevation in liver enzymes, but patient has torn right ACL, performing pre-anesthetic work up to evaluate if patient is stable enough to go under for TTA2 procedure
Abnormal PE/Chem/CBC/UA Results: ALT 342 U/I, ALKP 285 U/L, AMYL 499U/L

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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. Aortic trifurcation was normal.

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 moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 7.0 cm in length. The right kidney measured 7.2 cm in length.

Adrenal Glands

A well-defined, hyperechoic nodule was present in the cranial pole of the adrenal gland with mild associated symmetrical capsule expansion. The nodule did not exhibit signs of mineralization or vascular invasion. The nodule measured 1.1 cm in diameter. No evidence of capsular escape or vascular invasion or parenchymal/nodular mineralization. The left adrenal gland measured 1.1 cm at the caudal pole.

The right adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The right adrenal gland measured 0.84 cm width in the cranial pole and 0.54 cm width in the caudal pole.

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. The spleen exhibited mild cranial folding, not considered pathological and likely patient variant.

Liver

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion.

The gallbladder was non distended in size with primarily anechoic content with mild luminal debris. No evidence of gallbladder or peripheral gallbladder inflammatory criteria. The cystic duct and common bile ducts were normal without evidence of dilation.



PATIENT

Nicki Cromwell

SPECIES

Canine

BREED

German Shepherd Mix

SEX

Spayed Female

AGE

13 Years 11 Months

WEIGHT

76 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Mack

HOSPITAL NAME

Northside VC

REFERRING VET

Dr. Mack

INVOICE

16365

DATE

6/27/22

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.

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.

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.

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

- Cranial nonspecific left adrenal nodule- suspect adenoma
- Moderate chronic renal changes
- Hepatopathy, exhibiting parenchymal remodeling
- Mild gallbladder debris (non-mucocele)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall appearance of the liver was nonspecific yet consistent with chronic hepatopathy, considerations may include vacuolar hepatopathy, chronic inflammatory/immune mediated disease, indistinct areas of nodular hyperplasia, hematopoiesis, early fibrosis or other hepatopathy without evidence of overt neoplastic criteria, which is considered an unlikely differential diagnosis. Hepatic sampling is required for further assessment. Hepatosupportive medications, including Denamarin and ursodiol may prove beneficial. No overt anesthetic contraindications if normal BUN, cholesterol, glucose and albumin levels, which suggest normal hepatic functionality.

Technically the possibility of emerging left adrenal neoplastic nodule, i.e., pheochromocytoma, adenocarcinoma or other cannot be definitively ruled out. Prior to anesthesia, assessment of systemic blood pressure for evidence of hypertension, which may allude to an emerging left pheochromocytoma is suggested. Sonographic monitoring of the left adrenal nodule for evidence of progression with initial recheck in 6 weeks would be ideal.



PATIENT

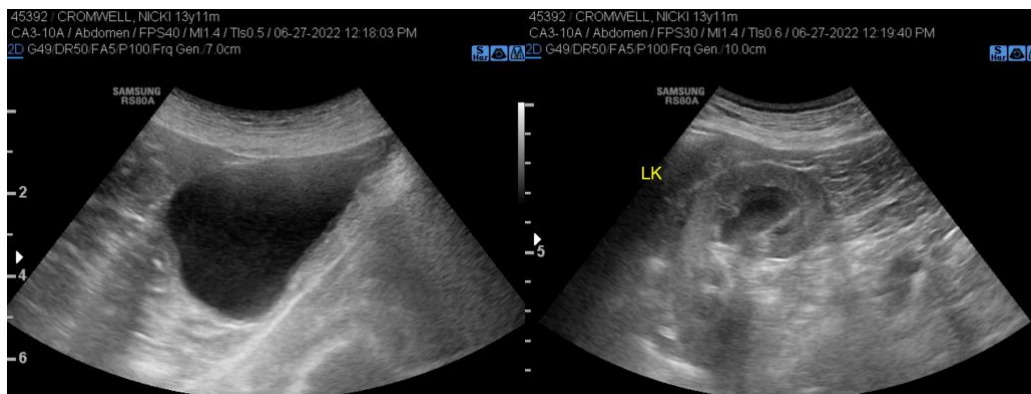
Nicki Cromwell

SPECIES

Canine

BREED

German Shepherd Mix



SEX

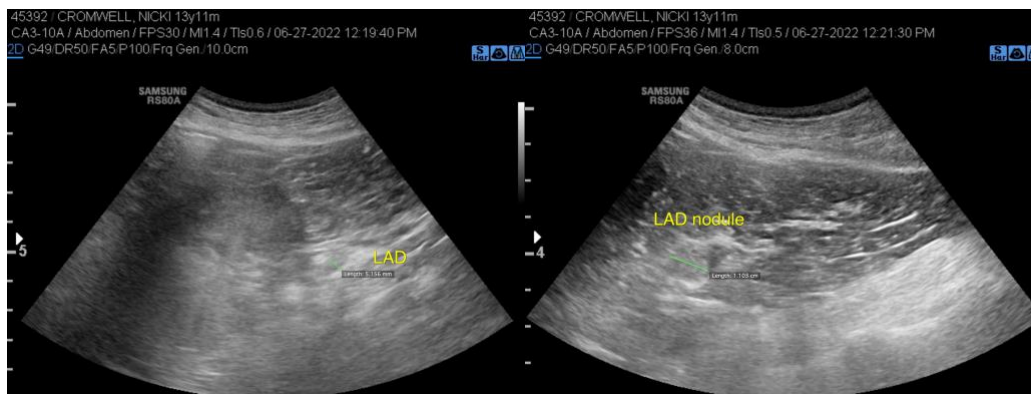
Spayed Female

AGE

13 Years 11 Months

WEIGHT

76 Pounds



INTERPRETED BY

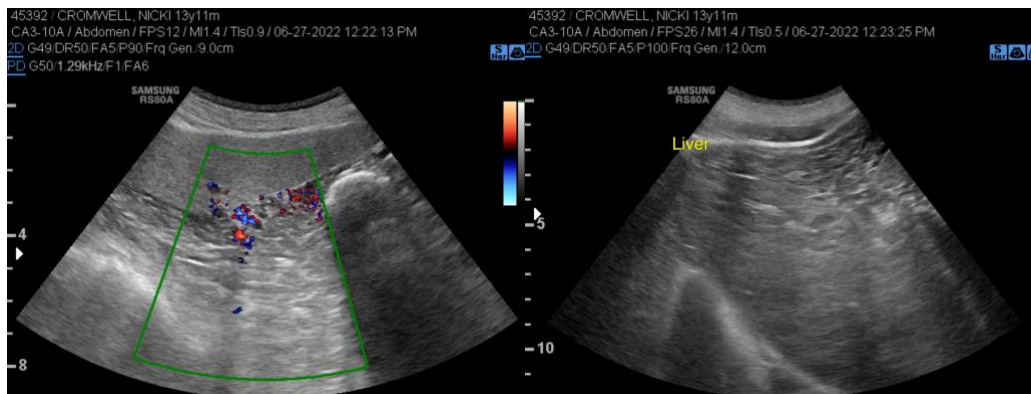
R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Mack

HOSPITAL NAME

Northside VC



REFERRING VET

Dr. Mack

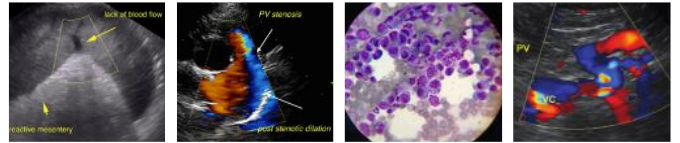
INVOICE

16365

DATE

6/27/22





PATIENT

Nicki Cromwell

SPECIES

Canine

BREED

German Shepherd Mix



SEX

Spayed Female

AGE

13 Years 11 Months

WEIGHT

76 Pounds

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Mack

HOSPITAL NAME

Northside VC

REFERRING VET

Dr. Mack

INVOICE

16365

DATE

6/27/22

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