



PATIENT

Lacey Noble

SPECIES

Canine

BREED

Jack Russell Terrier X

SEX

FS

AGE

12yr

WEIGHT

19.9lb

INTERPRETED BY

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

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Cottage Grove VC

REFERRING VET

Dr Damewood

INVOICE
24865

DATE

05/18/2026

PRESENTING CLINICAL SIGNS

Presented for dental cleaning. Presurgical panel showed elevated ALP. Pet is asymptomatic other than 2/5 mitral murmur, dental disease.

ABNORMAL Labwork Values ALP 1321 (last tested in 2024 was 379)

Current Medications Denamarin but o gives intermittently.

Radiographic Findings None

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no evidence of urine/lumen sediment, mineral, or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was 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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.1 cm in length. The right kidney measured 5.0 cm in length.

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

The bilateral adrenal glands were mildly enlarged in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.84 cm width in the caudal pole. The right adrenal gland measured 0.8 cm width in the caudal pole.

Spleen

The spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Indistinct to small hyperechoic nodules were present throughout the cranial to caudal 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 or neoplastic changes were not noted. The echogenic nodules tend to trend benign and are most consistent with benign hyperplasia or myelolipomas.

Liver/Gallbladder

The liver presented mildly increased in size. The parenchyma of the liver was subjectively increased in echogenicity compared to the spleen and renal cortices. The echotexture of the liver parenchyma was uniform with a mild coarse echotexture. The capsule of the liver was symmetrical in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. Normal vascular volume. The gallbladder was non-distended in size with gravity dependent to non-dependent non-organized debris. The cystic and common bile ducts were normal.

Gastrointestinal



PATIENT	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.
Lacey Noble	
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 mechanical/metabolic ileus, obstruction or foreign material.
Canine	Normal visible colon wall layers were present with apparent formed feces in lumen.
	Pancreas
BREED	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.
Jack Russell Terrier X	
	Free Abdomen
SEX	No omental masses, overt lymphadenopathy or peritoneal effusion was present.
FS	
	ULTRASONOGRAPHIC FINDINGS
AGE	Primary
12yr	<ul style="list-style-type: none">• Hepatopathy• Non-organized gallbladder debris (non-mucocele)• Bilateral mildly enlarged non-homogenous adrenal glands• Indistinct to small hyperechoic splenic nodules
WEIGHT	
19.9lb	
	<u>INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS</u>
INTERPRETED BY	Although non-specific, the liver is consistent with benign criteria and suggestive of vacuolar /cholestatic hepatopathy in conjunction with elevated ALP and presence of gallbladder debris. Inflammatory hepatopathy considered less likely without overt evidence of hepatic neoplastic criteria. Although the patient is non-clinical, adrenal screening or workup could be considered if clinical signs consistent with Cushing syndrome arise. Screening hepatic FNA cytology primarily to assess for non-obvious inflammation could be considered assuming normal clotting status. The small to indistinct hyperechoic splenic nodules are most consistent with benign criteria such as small myelolipomas, hyperplasia, or potential emerging mineralization. Hepatosupportive medications including consistent Denamarin and ursodiol with clinical monitoring would be reasonable.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	
IMAGING PERFORMED BY	
Sara Hansen	
HOSPITAL NAME	
Cottage Grove VC	
REFERRING VET	
Dr Damewood	
INVOICE	
24865	
DATE	
05/18/2026	



PATIENT
 Lacey Noble

SPECIES
 Canine

BREED
 Jack Russell Terrier X

SEX
 FS

AGE
 12yr

WEIGHT
 19.9lb

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

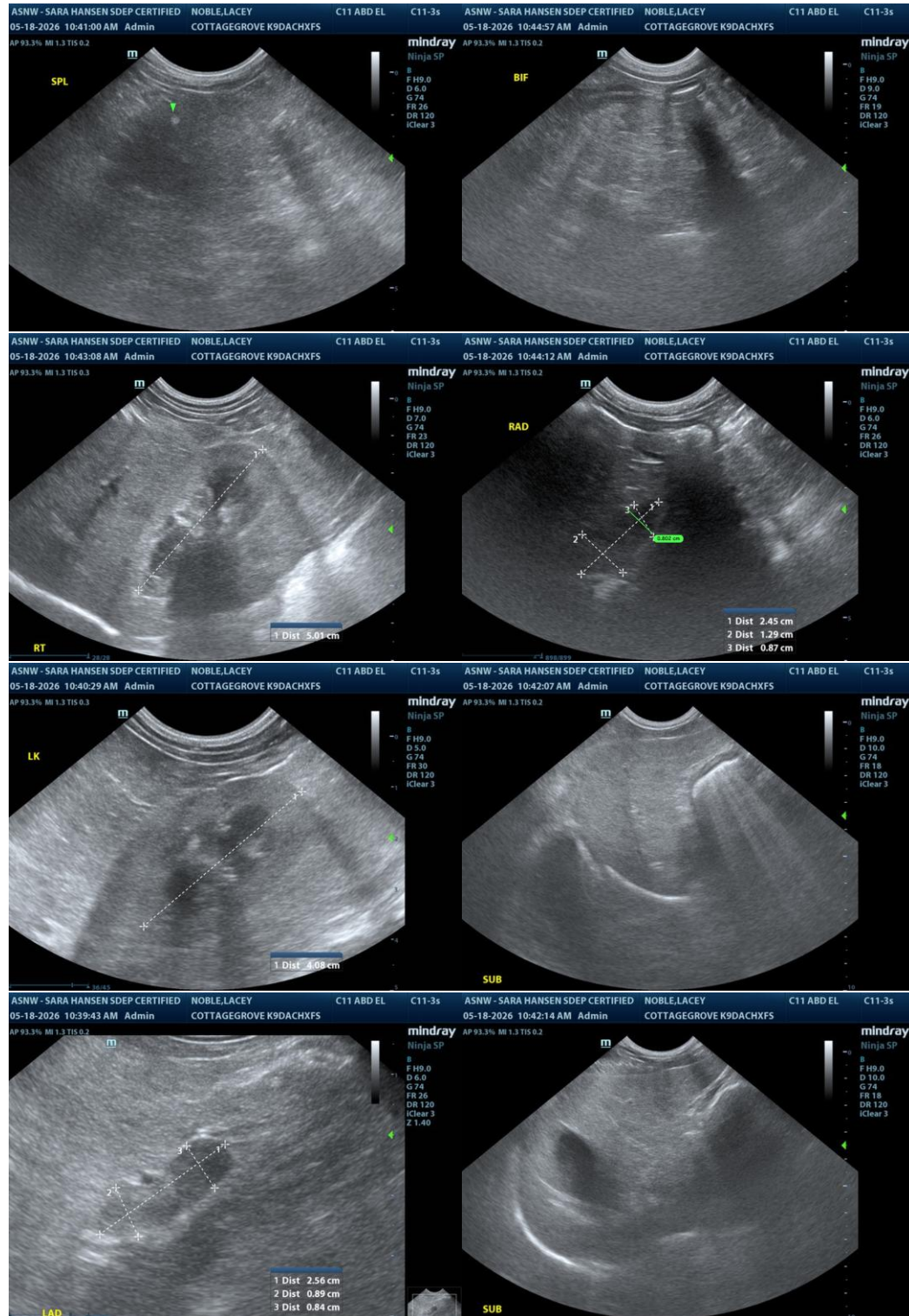
IMAGING PERFORMED BY
 Sara Hansen

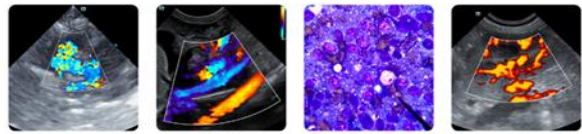
HOSPITAL NAME
 Cottage Grove VC

REFERRING VET
 Dr Damewood

INVOICE
 24865

DATE
 05/18/2026





PATIENT

Lacey Noble

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.

SPECIES

Canine

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.

BREED

Jack Russell Terrier X

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

SEX

FS

AGE

12yr

WEIGHT

19.9lb

INTERPRETED BY

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

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Cottage Grove VC

REFERRING VET

Dr Damewood

INVOICE

24865

DATE

05/18/2026