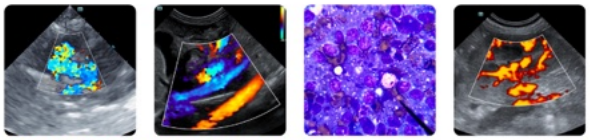


PATIENT

Devin Lasko

SPECIES

Canine

BREED

Dachshund

SEX

Neutered male

AGE

13 years

WEIGHT

15.6 lbs

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

Dr. Stafford

INVOICE

73818

DATE

3/26/26

PRESENTING CLINICAL SIGNS

- He has a history of a heart murmur, anal gland issues, and severe dental disease. He presented for a yearly exam and on rectal examination a Firm, pea sized nodule in the right anal gland was found. Cytology was taken and sent out to a specialist which showed cells consistent with AGASACA. Patient is here for staging (Abdominal ultrasound, chest radiographs, and then an echo due to the heart murmur) prior to general anesthesia.
- Firm, pea-sized nodule in right anal gland Grade 3/6 systolic heart murmur (newly noted) Severe stage 4 periodontal disease Cytology (anal gland mass): Consistent with apocrine gland anal sac adenocarcinoma (AGASACA) → malignant tumor with metastatic potential Bloodwork (CBC/Chem): Overall within normal limits Urinalysis: Concentrated urine, borderline proteinuria (UPC 0.2) 4DX/Parasites: Negative Fecal: No significant parasitic disease

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 3.0 cm beyond the cystourethral junction and appeared normal. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for this age patient. Medullary structure differed distinctly from that of the cortex. Slight pinpoint mineralization was noted. The left kidney measured 4.34 cm with slight pyelectasia. The right kidney measured 4.02 cm.

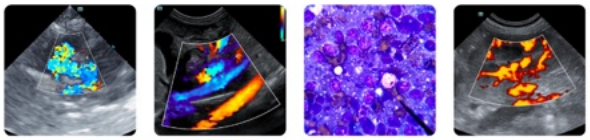
The residual prostate measured 0.87 cm.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 2.1 x 0.65 cm at the caudal pole and 0.56 cm at the cranial pole. The right adrenal gland measured 2.45 x 0.72 cm at the cranial pole and 0.68 cm at the caudal pole.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.



PATIENT

Devin Lasko

SPECIES

Canine

BREED

Dachshund

SEX

Neutered male

AGE

13 years

WEIGHT

15.6 lbs

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

Dr. Stafford

INVOICE

73818

DATE

3/26/26

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. Excessive gallbladder debris and coalesced bile was noted, yet not to the level of the mucocele formation.

Gastrointestinal

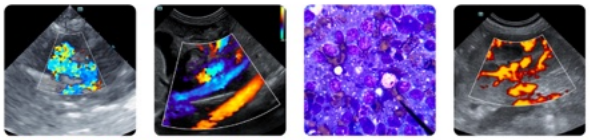
Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The **mitral** valve was mildly thickened. Doppler indicated measurable insufficiency. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.



PATIENT

Devin Lasko

SPECIES

Canine

BREED

Dachshund

SEX

Neutered male

AGE

13 years

WEIGHT

15.6 lbs

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

Dr. Stafford

INVOICE

73818

DATE

3/26/26

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO	LA/AO (Heart Base)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	-	-	1.1	1.3	45	-	0.1
CANINE CARDIAC PARAMETERS	**HR** (BPM)	**AV VMAX** (m/s)	**PV MAX** (m/s)	**BODY WEIGHT**	**LA** 2D short axis Base view (cm)	**LVIDd** Avg; 2D and m-mode short axis (cm)	**LVIDs** Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
PATIENT	-	-	0.6	15.6 lbs	3.0	2.4	

ULTRASONOGRAPHIC FINDINGS

Excessive gallbladder debris.

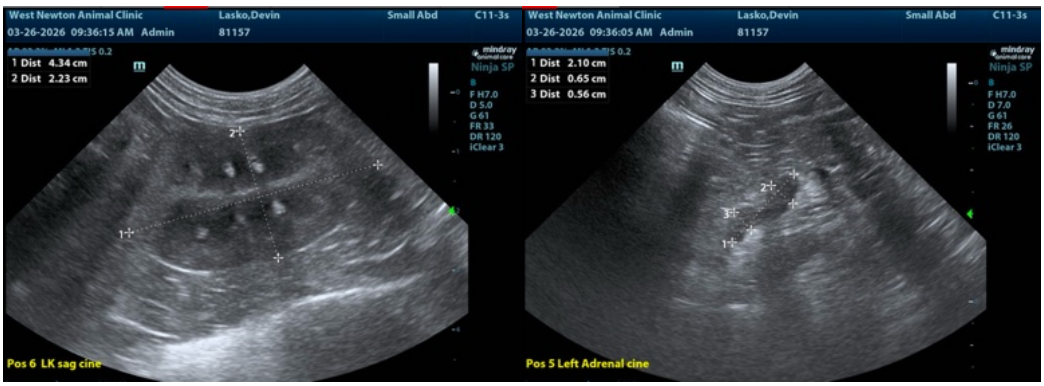
Renal mineralization and slight left renal pyelectasia.

Age related abdominal changes.

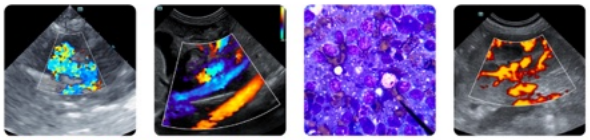
The cardiac presentation is consistent with B1 valvular disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Presumed mitral valve insufficiency, no evidence of pressure overload. However, weak signal did not allow for complete Doppler evaluation. However, there was no evidence of volume overload.



SonoPath
FOSTERING THE ART OF VETERINARY MEDICINE™



Clinical Sonography & Telecytology
Educational Teleconsultation Services™

SonoPath.com info@sonopath.com 1.800.838.4268

PATIENT

Devin Lasko

SPECIES

Canine

BREED

Dachshund

SEX

Neutered male

AGE

13 years

WEIGHT

15.6 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

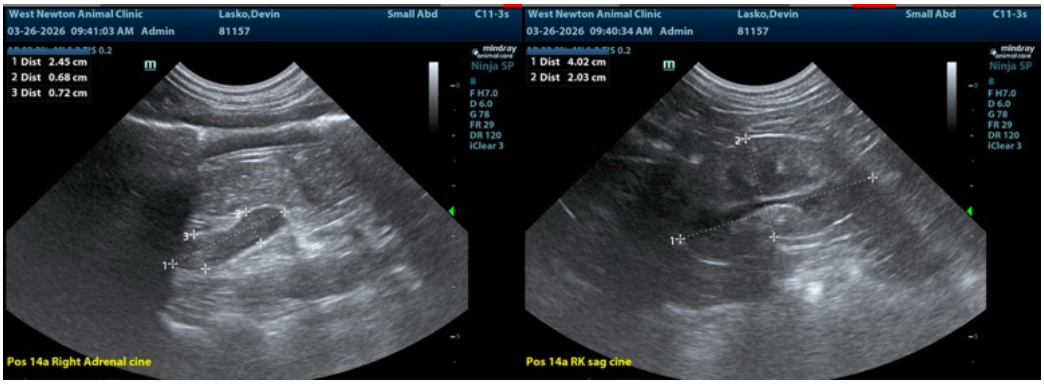
Dr. Stafford

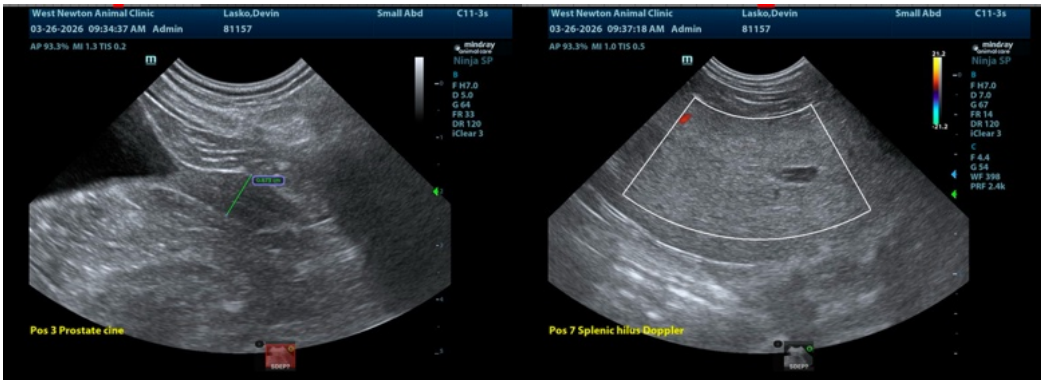
INVOICE

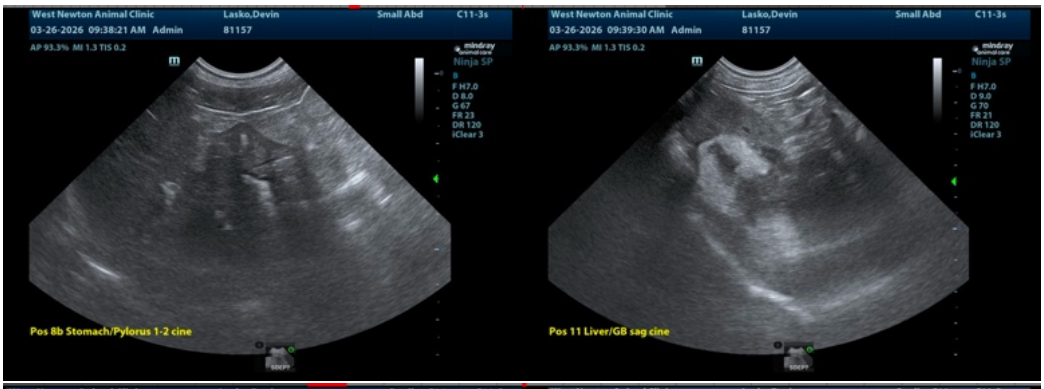
73818

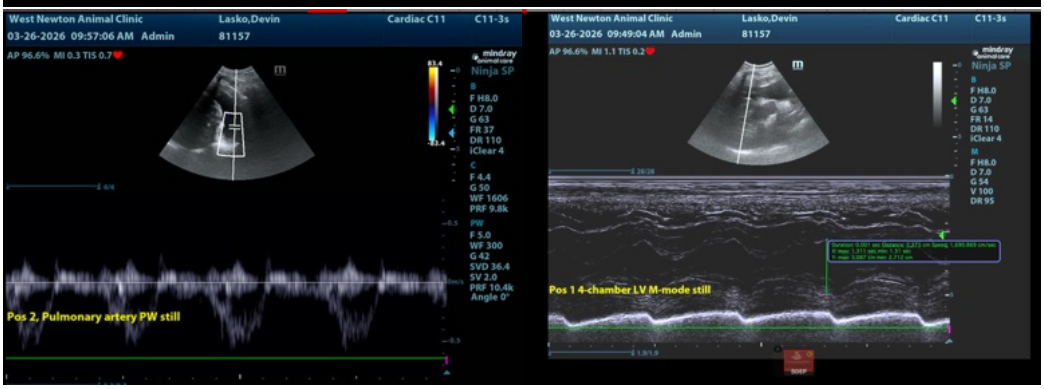
DATE

3/26/26

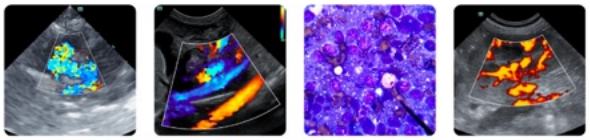








SonoPath
FOSTERING THE ART OF VETERINARY MEDICINE™



Clinical Sonography & Telecytology
Educational Teleconsultation Services™

SonoPath.com info@sonopath.com 1.800.838.4268

PATIENT

Devin Lasko

SPECIES

Canine

BREED

Dachshund

SEX

Neutered male

AGE

13 years

WEIGHT

15.6 lbs

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

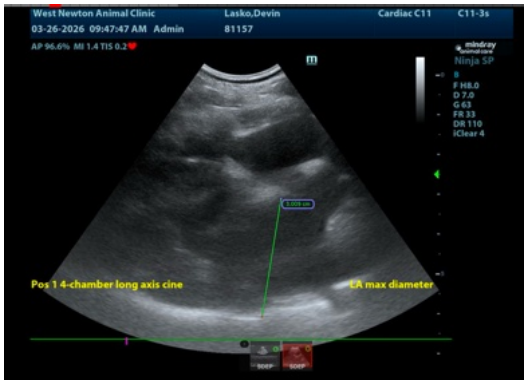
Dr. Stafford

INVOICE

73818

DATE

3/26/26



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.

Eric Lindquist, DMV, DABVP (CFM), Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com