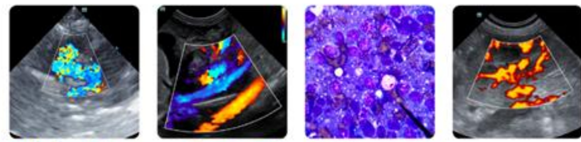
SonoPath
FOSTERING THE ART OF VETERINARY MEDICINE™
SonoPath.com info@sonopath.com 1.800.838.4268



Clinical Sonography & Telecytology
Educational Teleconsultation Services™

PATIENT
Ace Buchakian

SPECIES
Canine

BREED
Pitbull

SEX
MN

AGE
12yr

WEIGHT
80lb

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

IMAGING PERFORMED BY
Rebecca Hamilton

HOSPITAL NAME
Rondout Valley Animal Hospital

REFERRING VET
Dr Laux

INVOICE
24920

DATE
05/22/2026

PRESENTING CLINICAL SIGNS

Cardiomegaly on thoracic rads. Had horners syndrome OS so took chest rads to look for cause and heart enlarged on rad. No murmur heart. not on grain free diet.

Abnormal PE/Chem/CBC/UA Results: NSF

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO M-mode	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	--	--	--	1.2	25	48	0.54
CANINE CARDIAC PARAMETERS	**HR (BPM)**	**AV VMAX (m/s)**	**PV MAX (m/s)**	**BODY WEIGHT**	**LAD** LA MAX 4 Chamber	**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				
PATIENT	133	1.2	0.7	80lb	4.0	4.3	--

Cardiac Presentation

The echocardiogram in this patient demonstrated normal left atrial size and structure. Chamber volume and blood echogenicity were normal. The cranial and caudal mitral valve leaflets presented minor irregular age-related changes that are not clinically significant at this time with adequate extension in systole and union in diastole. No overt or significant MR on Doppler. The left ventricle presented normal free wall and septal thicknesses with linear contour. The myocardium presented some echogenic remodeling consistent with expected age-related change. Contractility was mildly subnormal as evidenced by the fracture shortening measurement. The left ventricular outflow tract demonstrated normal laminar flow with subjectively unremarkable structure. Subjective assessment of the right atrium and auricle revealed normal size, structure and content. No evidence of masses was noted. Tricuspid valvular assessment demonstrated expected findings for this age patient. The right ventricle was of normal size (1/3 diameter of LV), echogenicity and thickness. Pulmonic tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No dilation due to heartworm disease, cor pulmonale, stenosis, or pulmonic hypertension was noted. No visible pericardial or free pleural fluid was noted. The mediastinum was free of masses in the visible window. No evidence of arrhythmia or hepatic congestion. Possible borderline bradycardia.

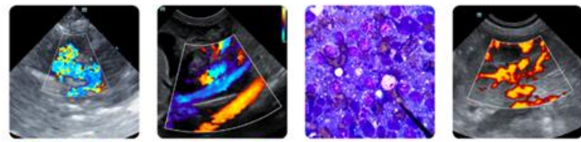
ULTRASONOGRAPHIC FINDINGS

Primary

- Normal cardiac structure with mild LV hypocontractility
- Possible mild bradycardia

SonoPath
FOSTERING THE ART OF VETERINARY MEDICINE™

SonoPath.com info@sonopath.com 1.800.838.4268



Clinical Sonography & Telecytology
Educational Teleconsultation Services™

PATIENT
Ace Buchakian

SPECIES
Canine

BREED
Pitbull

SEX
MN

AGE
12yr

WEIGHT
80lb

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

IMAGING PERFORMED BY
Rebecca Hamilton

HOSPITAL NAME
Rondout Valley Animal Hospital

REFERRING VET
Dr Laux

INVOICE
24920

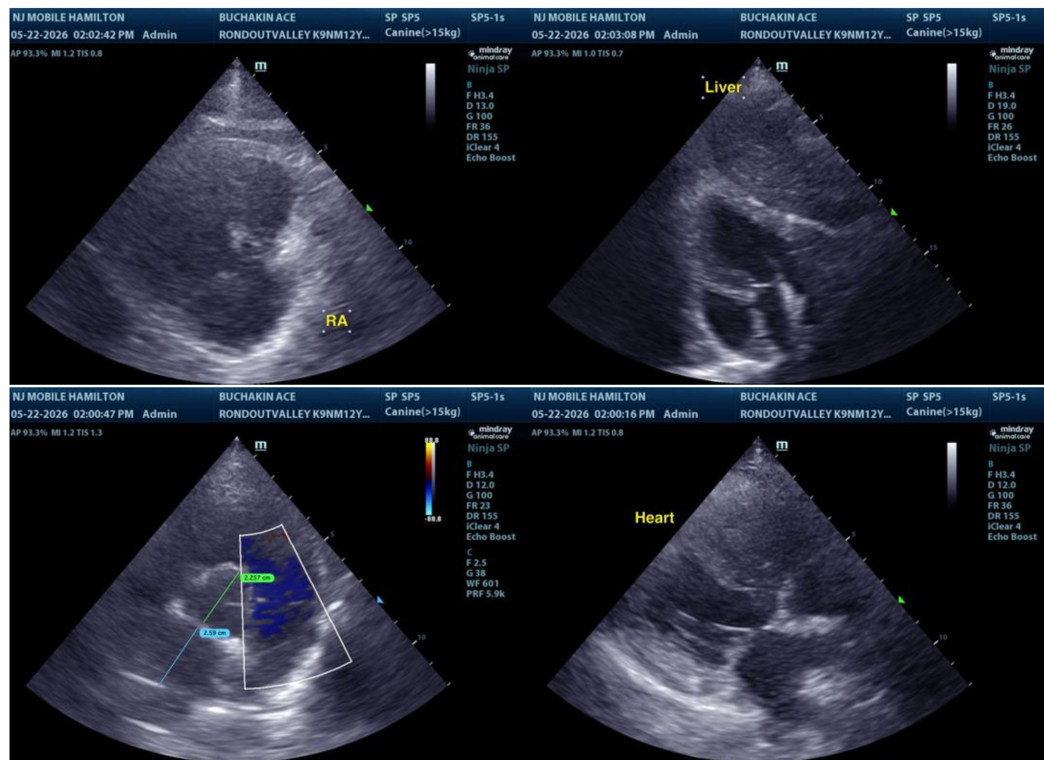
DATE
05/22/2026

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of clinical issues such as left or right heart chamber enlargement or clinical pulmonary hypertension. The mild subnormal LV contractility may indicate athletic state, systemic disease, hyperthyroidism without evidence of DCM criteria. Hypocontractility may be associated with sedation without evidence of left or right heart chamber enlargement or reported clinical signs. No indication for cardiac medication. ECG recommended given possible mild bradycardia.

Radiographic and echocardiographic monitoring is recommended with recheck echo suggested in 6 months, sooner if clinical signs consistent with cardiac dysfunction arise.

Anesthetic risk considered mild to possible moderate pending further assessment. If required, the following protocol is suggested with clinical monitoring. Suggested anesthetic protocol may include opioid or Benzodiazepine pre-med, induction with Propofol or Alfaxalone, and appropriate gas anesthesia with avoidance of alpha 2 agonists.

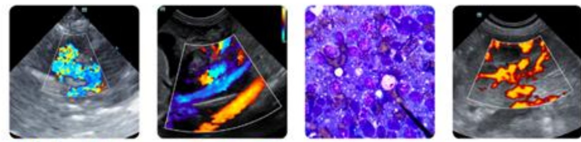


The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

SonoPath
FOSTERING THE ART OF VETERINARY MEDICINE™



Clinical Sonography & Telecytology
Educational Teleconsultation Services™

SonoPath.com info@sonopath.com 1.800.838.4268

PATIENT

info@sonopath.com

Ace Buchakian

SPECIES

Canine

BREED

Pitbull

SEX

MN

AGE

12yr

WEIGHT

80lb

INTERPRETED BY

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

IMAGING PERFORMED BY

Rebecca Hamilton

HOSPITAL NAME

Rondout Valley Animal Hospital

REFERRING VET

Dr Laux

INVOICE
24920

DATE
05/22/2026