



PATIENT

Roxy Newell

SPECIES

Canine

BREED

American Bulldog

SEX

Female Spayed

AGE

3 years

WEIGHT

53.8lbs

INTERPRETED BY

Maggie Machen
 Lamy, DVM, DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Jenna Walsh, CVT

HOSPITAL NAME

Four Corners
 Veterinary Clinic

REFERRING VET

Dr. Williams

INVOICE

22292

DATE

12/6/21

PRESENTING CLINICAL SIGNS

History: Previous clinic discovered enlarged heart during pre-anesthetic screening for dental disease. Patient was on grain free food since puppyhood, now changed to inclusive diet. Radiographs taken at other clinic reveal obvious cardiomegaly (VHS 14). No cardiac signs per owner. HR 120, RR panting.
 -Blood Pressure: 134/89mmHg.
 -Current Medications Carprofen, taurine.

ELECTROCARDIOGRAPHIC FINDINGS *Note: Single lead ECGs are evaluated as a rhythm strip.

Morphology/MEA cannot be definitively commented on.
 A single lead ECG is available; 50mm/s, 20mm/mV. The average heart rate is 150bpm (range 100-188bpm). The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P and QRS morphologies are positive. No ectopic beats, pauses or dysrhythmias observed.
 ECG diagnosis: Normal sinus rhythm with respiratory variation.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Mild diffuse thickening of mitral valve leaflets with no prolapse into the left atrial lumen. Trivial central mitral regurgitation with minimal left atrial dilation. Borderline LV dimension in both systole and diastole (LVIDdN 1.8, LVIDsN 1.25) with adequate (borderline) myocardial function. The tricuspid valve appears normal with no tricuspid regurgitation. Normal right atrial and ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and mildly elevated aortic outflow velocities with laminar flow. No obvious aortic or pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

CARDIAC CHART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			1.4	1.5	26	50	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	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	190	2.1	1.2	24.4	3.0	4.6	3.4
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
BODY WEIGHT DEPENDENT PARAMETERS				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
				10	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)
				15	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)
				20	2.02 (1.9)	4.14 (2.2)	2.80 (2.0)
				25	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)

Adapted from June Boon, Veterinary Echocardiography, 1998
 Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435
 Hansson et al, Vet Rad and Ultrasound 2002



PATIENT
 Roxy Newell

Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995	30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
	35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
	40	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)
	50	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)

SPECIES
 Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Essentially normal cardiac structure and function. The LV measurements are borderline, and the systolic function is borderline depressed. This may simply be this dog's normal or may represent mild changes secondary to a previous grain free diet. Trivial MR is noted; however, is considered physiologic. No additional issues are identified. The ECG is unremarkable with a normal sinus rhythm.

BREED
 American Bulldog

SEX
 Female Spayed

No medications are indicated, and the diet has already been changed. A taurine supplement can be considered; however, this is likely unnecessary. Recommend reassess in the future to ensure persistent progressive changes are not identified.

AGE
 3 years

Monitor for any development of murmur, persistent cough, labored breathing or exercise intolerance.

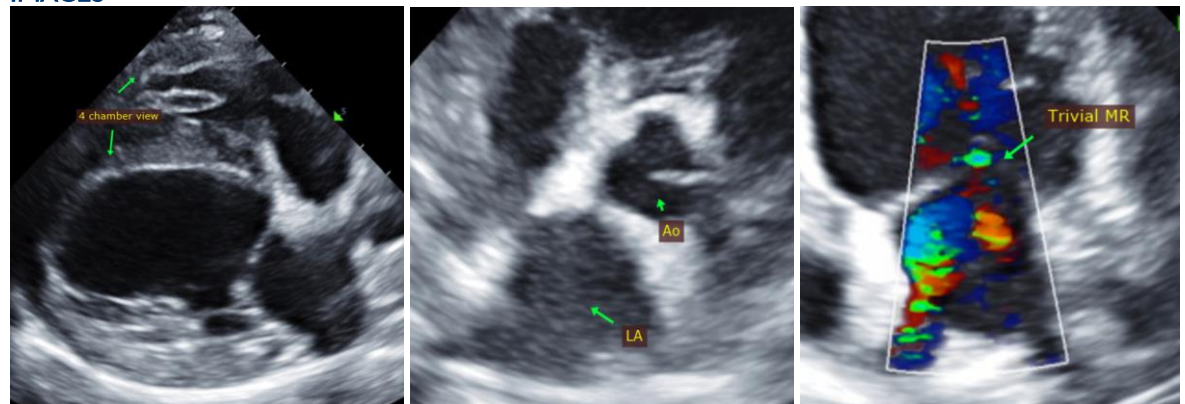
No cardiac contraindication for general anesthesia.

WEIGHT
 53.8lbs

Recommend recheck echocardiogram in 12 months to screen for any progressive changes, sooner if clinical issues or a murmur arise.

INTERPRETED BY
 Maggie Machen
 Lamy, DVM, DACVIM
 (Cardiology)

IMAGES

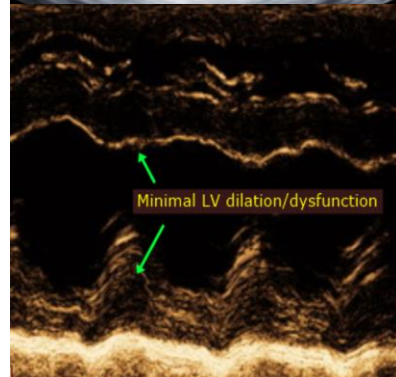


IMAGING PERFORMED BY
 Jenna Walsh, CVT

HOSPITAL NAME
 Four Corners
 Veterinary Clinic

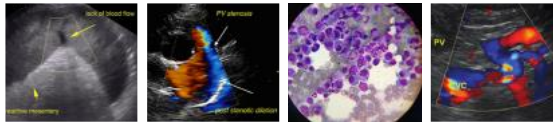
REFERRING VET
 Dr. Williams

INVOICE
 22292



DATE
 12/6/21





PATIENT

Roxy Newell

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.

SPECIES

Canine

Thank you for this referral. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

BREED

American Bulldog

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

SEX

Female Spayed

AGE

3 years

WEIGHT

53.8lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM, DACVIM
(Cardiology)

**IMAGING
PERFORMED BY**

Jenna Walsh, CVT

HOSPITAL NAME

Four Corners
Veterinary Clinic

REFERRING VET

Dr. Williams

INVOICE

22292

DATE

12/6/21