

PATIENT

JJ George

PRESENTING CLINICAL SIGNS

History: Healthy pet; BSE.

SPECIES

Canine

BREED

Boxer

SEX

Male Intact

AGE

1 year

WEIGHT

81.5lbs

INTERPRETED BY

Maggie Machen
 Lamy, DVM, DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Heidi Putnam, SDEP
 Clinical Sonographer

HOSPITAL NAME

Edgewood Animal
 Clinic

REFERRING VET

Dr. Ledu

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve leaflets with no obvious prolapse into the left atrial lumen. No mitral regurgitation seen. Normal left atrial dimension. Normal LV diameter with adequate myocardial function. The tricuspid valve appears subjectively normal with no TR. 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. No PI. No evidence of SAS or other congenital stenosis. Normal LVOT velocities. No obvious cardiac shunts. Normal pulmonic outflow velocities; laminar flow. No pericardial or pleural effusion noted. No cardiac tumors identified.

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	NA	NA	NM	1.4	38	70	0.16
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	96	1.5	1.2	37.0	1.8	4.5	2.8
*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 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 Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995				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)
				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)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

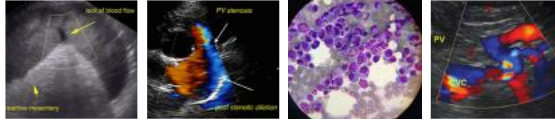
Overtly normal cardiac structure and function. No evidence of congenital issues or cardiac enlargement/dysfunction at this time.

INVOICE

20545

DATE

8/14/21



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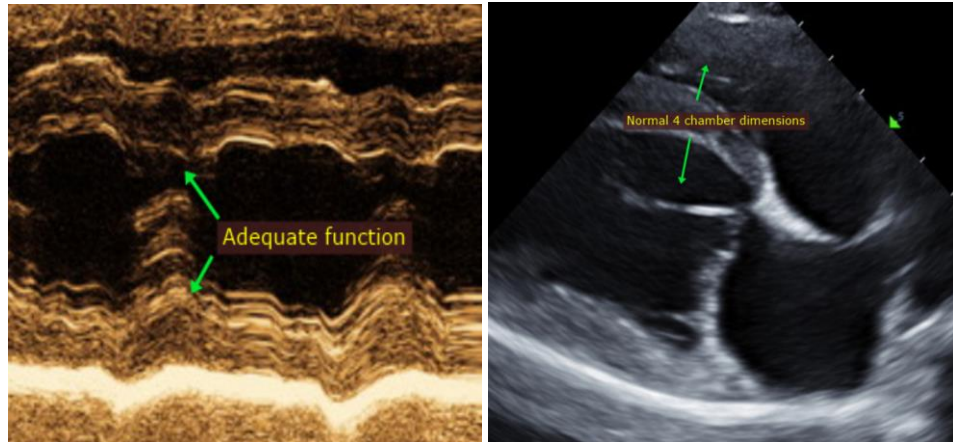
While no abnormalities are noted on today's exam, it should also be noted that a normal congenital exam does not rule out risk to develop ARVC or DCM as this dog ages, and annual screening via echocardiography and holter monitor is recommended. A genetic test is available through NC State and may also be reasonable to screen for the risk of development of ARVC.

No contraindication for breeding at this time. Consider an OFA evaluation as the gold standard. Additionally, a baseline ECG and holter monitor are recommended.

No medications are indicated; however, omega fatty acid supplementation may be of some long-term benefit in dogs predisposed to arrhythmias. Monitor for development of a heart murmur, cough, labored breathing, exercise intolerance or collapse episodes.

Recommend continued annual monitoring through echocardiography, holter/ECG, and/or NT-ProBNP screening, sooner if any development of clinical signs.

IMAGES



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. 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.

Maggie Machen Lamy, DVM
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