



PATIENT

Jojo Williams

PRESENTING CLINICAL SIGNS

History: Persistently elevated ALP, mild ALT elevation.

SPECIES

Canine

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 90bpm (range 80-100bpm). P waves cannot be visualized due to low voltage complexes. The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P and QRS morphologies are positive.

BREED

Lab mix

No ectopic beats, pauses or other dysrhythmias observed.

ECG diagnosis: Suspect normal sinus bradycardia.

SEX

Female Spayed

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve leaflets with no prolapse into the left atrial lumen. No obvious mitral regurgitation with a normal left atrial dimension. Normal LV diameter with adequate 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 aortic outflow velocities with laminar flow. No obvious aortic or pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

AGE

12 years

WEIGHT

56.3lbs

CARDIAC CHART

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

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	1.3	39	72	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	NM	1.0	1.0	25.5	2.9	3.2	1.9
*Normal chamber parameters expressed as a mean value (SD)							
BODY WEIGHT DEPENDENT PARAMETERS							
*Note: All measurements based upon multi-modal images and methods. An average value is reported.							
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	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)			
	10	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)			
	15	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)			
	20	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)			
	25	2.02 (1.9)	4.14 (2.2)	2.80 (2.0)			
	30	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)			
	35	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)			
	40	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)			
	50	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)			
		2.88 (7.1)	6.07 (8.3)	4.46 (7.4)			

IMAGING PERFORMED BY

Dana Alterman,
RDCS, LVT

HOSPITAL NAME

Eubank Animal Clinic

REFERRING VET

Dr. Moulton

INVOICE

28201

DATE

1/9/23



PATIENT

Jojo Williams

SPECIES

Canine

BREED

Lab mix

SEX

Female Spayed

AGE

12 years

WEIGHT

56.3lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Dana Alterman,
RDCS, LVT

HOSPITAL NAME

Eubank Animal Clinic

REFERRING VET

Dr. Moulton

INVOICE

28201

DATE

1/9/23

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

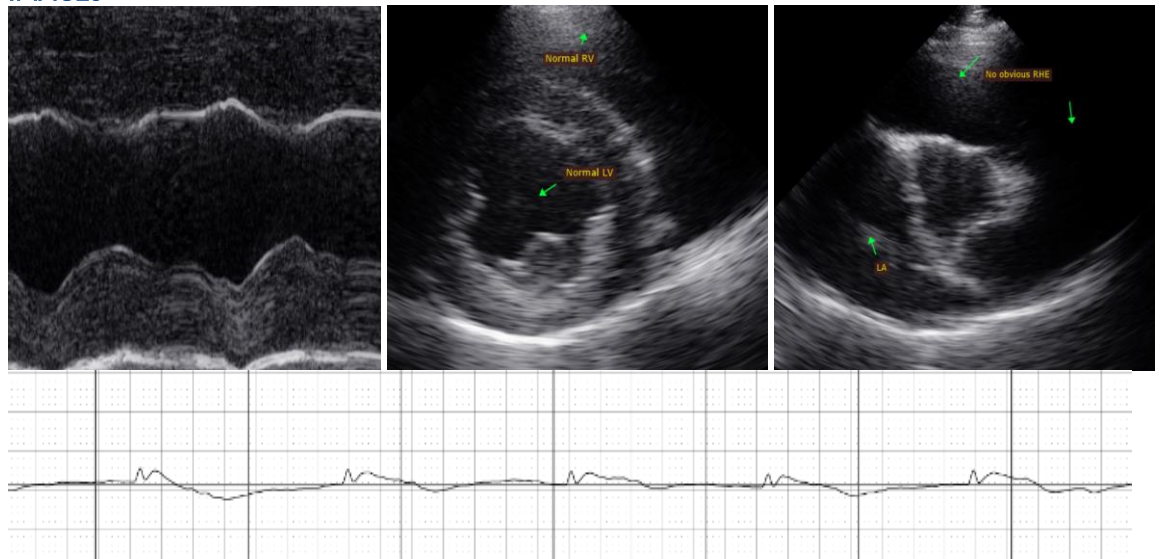
Overtly normal cardiac dimensions and function, with no obvious dysfunction or dilation of the left heart. No significant valvular leaks are visualized, and no evidence of pulmonary hypertension. The ECG is largely unremarkable with a sinus bradycardia. Ensure the heart rate stimulates adequately with light stress or exertion. If there is any question, an Atropine challenge can be considered.

These findings would suggest liver elevation is noncardiac in origin. Further systemic evaluation is advised.

Monitor for development of a heart murmur, cough, labored breathing, exercise intolerance or collapse episodes.

A recheck echocardiogram is recommended should a significant murmur develop or signs of cardiac compromise be noted in the future.

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
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com