



PATIENT

Emmett Mack

SPECIES

Canine

BREED

Airdale

SEX

Male

AGE

3 years

WEIGHT

75lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Callihan, DVM

HOSPITAL NAME

Pacific Crest Mobile
Vet

REFERRING VET

Dr. Ingman

INVOICE

24222

DATE

5/17/22

PRESENTING CLINICAL SIGNS

History: Grade 2/6 heart murmur. Assess prior to dental. Asymptomatic.

-Sedation: Gabapentin/Trazodone night before and morning of exam. Butorphanol/Ace/Midaz for echo.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Mild mitral valve leaflet thickening with no obvious prolapse into the left atrial lumen. Trace mitral regurgitation is identified. Normal left atrial dimension. Normal LV diameter with normal myocardial function. The tricuspid valve appears subjectively normal. Trivial TR. The right heart is normal. No overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. No aortic abnormalities identified, with normal outflow velocity. Normal pulmonic outflow velocities. No aortic insufficiency. No pulmonic insufficiency. No pericardial or pleural effusion noted. No cardiac tumors observed.

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	NM	NM	1.2	1.2	33	62	0.3	
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	50	1.2	0.84	34.0	2.4	4.3	2.9	
*Normal chamber parameters expressed as a mean value (SD)								
BODY WEIGHT DEPENDENT PARAMETERS								
<i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>								
					3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
					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 with no cause of a murmur identified. Trace leaks are noted in the mitral and tricuspid valves, which are unlikely to be heard on exam. Follow up is advised in the future to ensure no progression is seen. No significant valvular insufficiencies were noted, and no structural issues identified. In the absence of significant volume changes (dehydration) or anemia, other possibilities include a physiologic flow murmur only present with elevated heart rates, or a small flow abnormality not seen here. **The patient appears heavily sedated based upon heart rate, which is suspected to be masking a flow murmur.** It is reasonable



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to monitor periodically via recheck echocardiography in the future, particularly should the murmur persist/progress.

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No cardiac medications are indicated at this time. Monitor for any development of cough, labored breathing or exercise intolerance.

No cardiac contraindication for general anesthesia.

BREED

Airdale

Recommend recheck echocardiogram in 12-18 months to screen for progression or development of concurrent cardiac disease that the preexisting murmur may mask.

SEX

Male

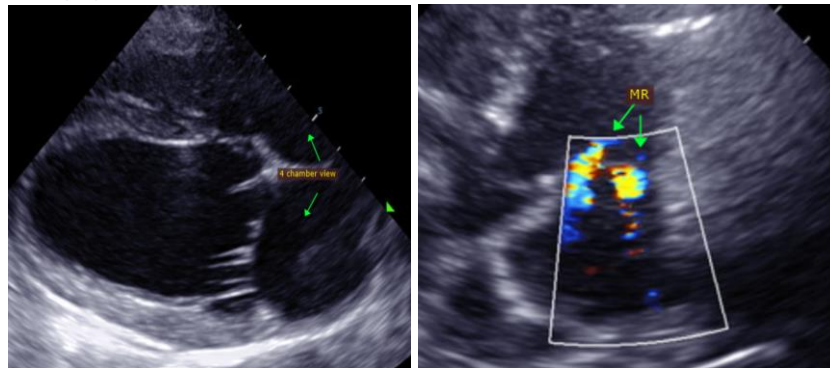
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IMAGES



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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.

IMAGING PERFORMED BY

Callihan, DVM

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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info@sonopath.com

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