



PATIENT

Dallas Howitt

SPECIES

Canine

BREED

Australian Cattle Dog
Mix

SEX

Male Neutered

AGE

6 years

WEIGHT

21.4kgs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Nigel Gumley, DVM

HOSPITAL NAME

Cedarview Animal
Hospital

REFERRING VET

Dr. Gumley

INVOICE

24259

DATE

5/18/22

PRESENTING CLINICAL SIGNS

History: Recently noted systolic left apical heart murmur. Grade 2/6 left apical heart murmur, variable intensity. MM pink, lungs normal, femoral pulse synchronous and strong.
-Sedated for exam with 0.2 mg/kg butorphanol.

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. Trace/mild anterior-directed mitral regurgitation with no left atrial dilation. Normal MR velocity. Normal LV diameter with mildly depressed myocardial function. The tricuspid valve appears normal with trace tricuspid regurgitation. Normal velocity. 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.

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	4.5	1.7	1.0	1.3	24	40	0.6
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	62	1.3	1.0	21.4	2.7	3.8	2.9
*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)
<i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>				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

Chronic degenerative valve disease causing trace/mild leaks in the mitral and tricuspid valves. Lack of significant left atrial enlargement indicates the current risk for complication is low. The systolic function is mildly depressed which may be a normal variant or may reflect true early dysfunction. Monitoring is advised going forward. No concurrent issues such as pulmonary hypertension are noted in this study.

Treatable causes of LV dysfunction should be considered, such as grain-free or boutique brand diets or hypothyroidism. No obvious need for Taurine supplementation at this time.



PATIENT

Dallas Howitt

Assessment of progression in the future will help predict long term prognosis, which is highly variable at this stage (B1). Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit. Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

SPECIES

Canine

No cardiac contraindication for general anesthesia prior to chamber enlargement.

BREED

Australian Cattle Dog
Mix

PLAN

Consider diet history, thyroid status as discussed.

SEX

Male Neutered

Recommend conservative monitoring with a recheck echocardiogram in 6 months, sooner if any development of clinical signs.

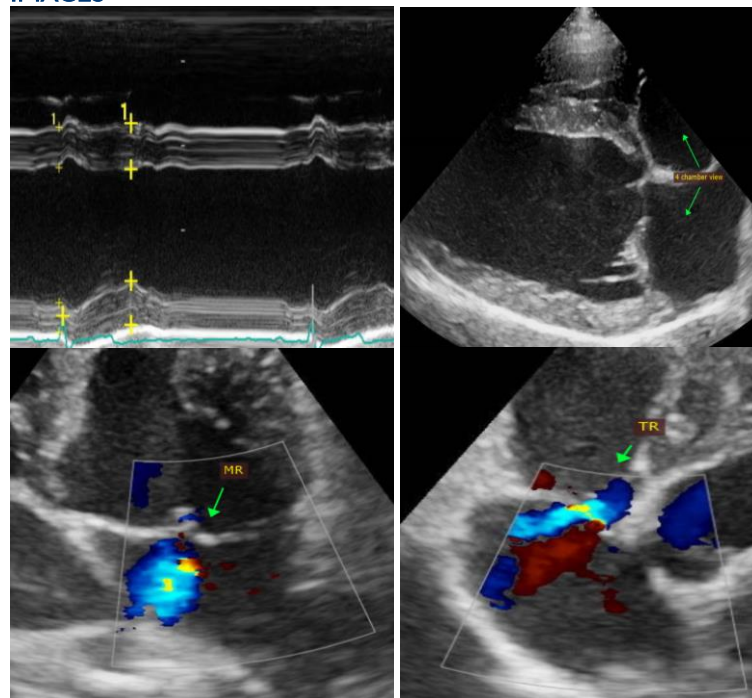
AGE

6 years

IMAGES

WEIGHT

21.4kgs



INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

**IMAGING
PERFORMED BY**

Nigel Gumley, DVM

HOSPITAL NAME

Cedarview Animal
Hospital

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.

REFERRING VET

Dr. Gumley

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.

INVOICE

24259

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

DATE

5/18/22