



DATE PRESENTING CLINICAL SIGNS

3.2.26 History: Recheck echo. Grade 2/6 murmur.

PATIENT

Charlie Byrd Travis

-Current medications: Vetsulin (pet has developed diabetes).
-Sedation used: Not required to complete full diagnostic ultrasound.
-Pertinent previous ultrasound results (10/2024 MML): Normal. Trace TR. Unknown murmur origin.
-STAT: Not requested.
-Imaging performed by: Stephanie Warga RDCS, RVT.

SPECIES

Canine

BREED

Chihuahua

SEX

MN

AGE

5.16.16

WEIGHT

12.6lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

HOSPITAL NAME

Banfield Towson

REFERRING VET

Dr. Lewis

INVOICE

47051

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 velocity. Normal left atrial dimension. Normal LV diameter with normal myocardial function. The tricuspid valve appears subjectively normal. Trace TR. Velocity consistent with mild to moderate pulmonary hypertension. The right heart is normal. The pulmonic and aortic valves are normal in morphology and mobility. Mildly elevated aortic 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	5.7	3.5	NM	1.3	46	80	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	160	1.3	1.5	5.7	1.6	2.6	1.4
*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)
*Note: All measurements based upon multi-modal images and methods. An average value is reported.				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

Mild changes are seen compared to the prior evaluation. While the small tricuspid regurgitation is largely unchanged, the velocity is now elevated consistent with mild to moderate pulmonary

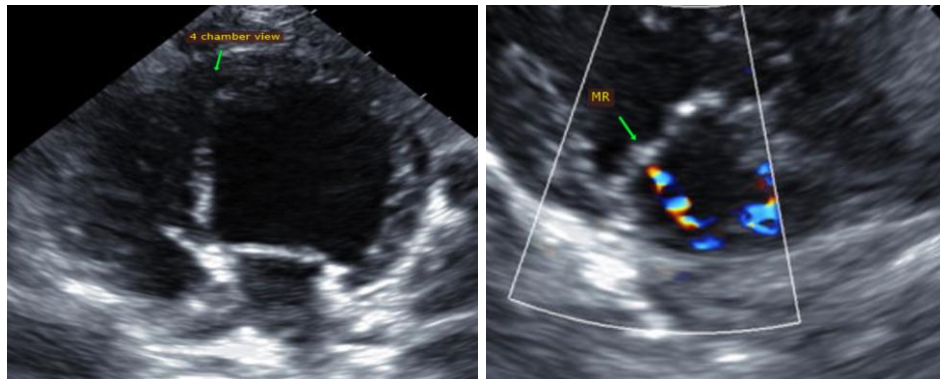
hypertension. This is unexpected in an asymptomatic dog and simple monitoring is advised. Additionally, a small mitral regurgitation has developed; however, this is also unlikely to be heard upon exam. Early valve disease is certainly possible and monitoring is recommended. Finally, the aortic outflow velocity does appear mildly elevated, which is a benign flow abnormality that is the likely cause of the murmur. Despite these changes, the overall cardiac dimensions and function remain normal.

Given these findings, 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.

Recommend recheck echocardiogram in 1 year, sooner if clinical signs arise in the interim.

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