


PATIENT

 Dumpling Bound
 Rescue

SPECIES

Canine

BREED

American Bulldog Mix

SEX

Female Spayed

AGE

2-3 years

WEIGHT

52.2lbs

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

**IMAGING
 PERFORMED BY**

Crystal Hill, RVT

HOSPITAL NAME

 Burlington Lakeshore
 Veterinary Hospital

REFERRING VET

Dr. Aziz

INVOICE

29712

DATE

3/20/23

PRESENTING CLINICAL SIGNS

History: Grade 2-3/6 heart murmur. Sedated with Dexdomitor and Torb.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve leaflets with no prolapse into the left atrial lumen. Trace mitral regurgitation with a mild left atrial dilation. Mild LV dilation with depressed 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.

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	NA	1.1	1.6	24	49	0.82
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	1.5	1.3	23.7	3.2	4.4	3.4
*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)
<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

Unfortunately, it is nearly impossible to accurately evaluate a patient's echo or ECG parameters using Dexdomitor. In dogs specifically, the drug was shown to increase both LV diameters, lower FS and lower blood flow through the great vessels, all which are seen in this study. What is seen in this study is suspected to all be secondary to Dexdomitor rather than organic disease; however, this cannot be definitively determined. Additionally, decreasing flow through the great vessels can mask outflow murmur origins and cause for the murmur is identified in this study. No obvious congenital shunts are visualized.

Prognosis is open prior to reassessment.



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Rescue

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

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PLAN

Highly recommend reassess a baseline in the absence of heavy sedation. No conclusions can be made based upon these findings while on Dexdomitor.

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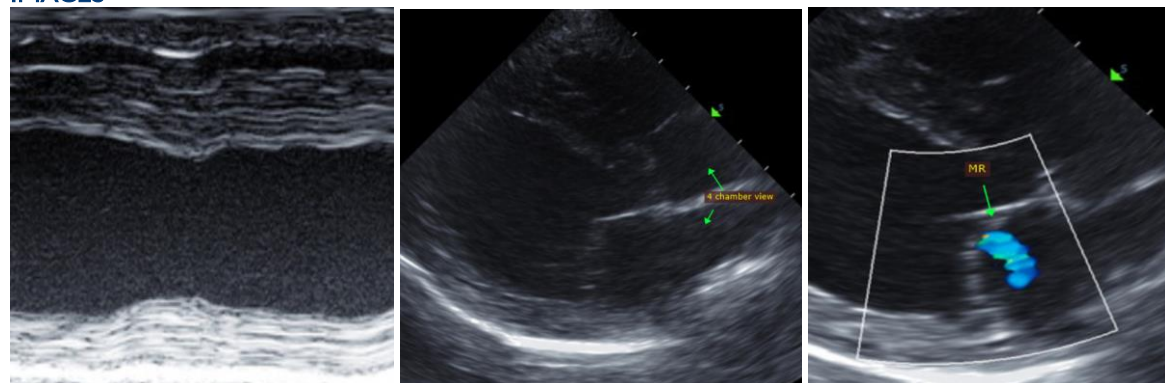
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IMAGES



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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.

INTERPRETED BY

Maggie Machen Lamy,
DVM DACVIM
(Cardiology)

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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