



**PATIENT**

Mia Diaz

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

Female Spayed

**AGE**

5 years

**WEIGHT**

6.5lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

G. Ferrer, DVM

**HOSPITAL NAME**

Paseos Veterinary  
Center

**REFERRING VET**

Dr. Davila

**INVOICE**

29272

**DATE**

2/28/23

**PRESENTING CLINICAL SIGNS**

History: Previously diagnosed with cardiac disease by another veterinarian about 3-4 months ago. No obvious murmur.

-Current medications: Enalapril 2.5mg ½ tab BID, and Furosemide 12.5mg 1 tab BID.

-Abnormal PE/Chem/CBC/UA Results: CBC: RBC: 8.89 (5.654-8.87) HCT: 67.1 (37.1 61.7) HGB: 21.7 (13.1-20.5) NEU: 12.22 (2.95- 11.64) CHEM: ALKP: 19 (23-212) LIPA: 2118 (200-1800).

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. The mitral valve is thickened; however, no prolapse or mitral regurgitation are appreciated. The LV chamber is decreased in dimension with evidence of pseudohypertrophy. Normal left atrial dimension. 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.

**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	NA	NA	NM	1.4	75	98	0.25
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	120	0.7	0.8	2.9	1.2	1.7	0.4
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
<b>BODY WEIGHT DEPENDENT PARAMETERS</b>				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)
Adapted from June Boon, Veterinary Echocardiography, 1998				25	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)
Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435				30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
Hansson et al, Vet Rad and Ultrasound 2002				35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995				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 dimensions and function, with no obvious dysfunction or dilation of the left heart. There is evidence of pseudohypertrophy, which is likely secondary to high dose Lasix therapy. The mitral valve is thickened, which should be reassessed if a murmur develops in the future. No additional issues are identified.



**PATIENT**

Mia Diaz

These findings would suggest **medications are unnecessary in this case**. The patient is on an **extremely high dose of Lasix** for this body size and monitoring of renal values is recommended. It is unclear what the prior diagnosis is based upon; however, no significant pathology is seen here.

**SPECIES**

Canine

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

**BREED**

Chihuahua

**PLAN**

Discontinue Lasix and Enalapril. Monitor renal values/HCT in 2-3 months to reestablish a baseline.

**SEX**

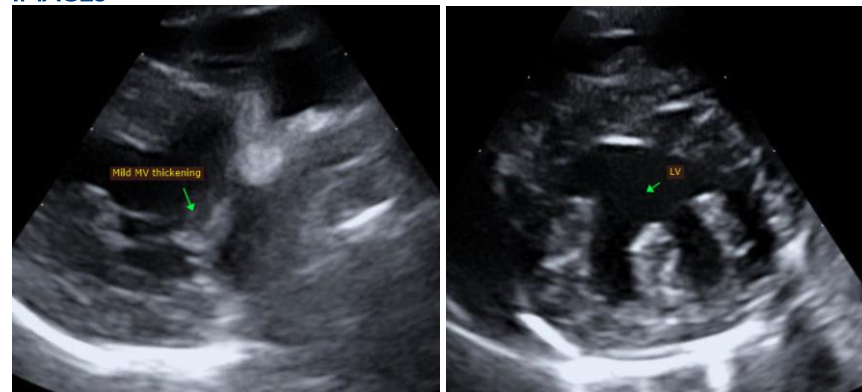
Female Spayed

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

**AGE**

5 years

**IMAGES**



**WEIGHT**

6.5lbs

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Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

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**

G. Ferrer, 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.

**HOSPITAL NAME**

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Center

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