

**PATIENT**

Emmie Power

**SPECIES**

Canine

**BREED**

American Pitbull  
 Terrier Mix

**SEX**

Female Spayed

**AGE**

12 years

**WEIGHT**

54lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
 DVM, DACVIM  
 (Cardiology)

**IMAGING PERFORMED BY**

Loetitia Saint-Jacques,  
 LVT

**HOSPITAL NAME**

South Reno Veterinary  
 Hospital

**REFERRING VET**

Dr. Schmitt

**INVOICE**

47638

**DATE**

4/21/26

**PRESENTING CLINICAL SIGNS**

History: Grade 2/6 left-sided systolic base heart murmur and appears to be slightly audible on the right side and lungs auscult and femoral pulses within normal limits. Assess prior to anesthesia.  
 -Abnormal PE/Chem/CBC/UA Results (4/13/2026): Chem: slight increased ALT 142 and cholesterol 363  
 Severe increase alkaline phosphatase 2842 CBC: Slight increased monocytes Heartworm test antigen:  
 No Antigen Detected Fecal: All undetected Urinalysis: Specific gravity upper end of normal. Increased pH. Severe alkaline phosphatemia. Monocytosis mild. Also, bile acids test.

**RADIOGRAPHIC FINDINGS** \*NOTE: Images submitted for supplemental information only.

Normal cardiac silhouette. No obvious evidence of CHF.

**ELECTROCARDIOGRAPHIC FINDINGS**

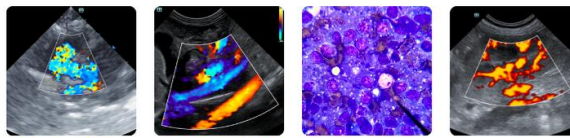
A six lead ECG is available at 25mm/s; 10mm/mV. The average heart rate is 80bpm. The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P wave morphology is positive with a normal dimension. Normal PR. The QRS morphology is positive with normal dimension. MEA is normal. No ectopic beats, pauses or dysrhythmias observed.  
 ECG diagnosis: Normal sinus rhythm with respiratory variation.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. Mild thickening of the mitral valve leaflets with no obvious prolapse into the left atrial lumen. Trivial mitral regurgitation is identified. Normal velocity. Normal left atrial dimension. Normal LV diameter with adequate myocardial function. The tricuspid valve appears subjectively normal, with no significant tricuspid regurgitation. The right heart is normal (subjective). No overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. No aortic abnormalities identified; however, the LVOT velocity is mildly elevated. Normal pulmonic outflow velocities. No aortic or 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)
<b>NORMAL PARAMETER</b>	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
<b>PATIENT</b>	4.7	NA	1.5	1.4	31	60	0.8
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)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
<b>PATIENT</b>	NM	2.0	0.9	24.5	3.4	3.4	2.3
*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)
*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)



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Adapted from June Boon, Veterinary Echocardiography, 1998	30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435	35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
Hansson et al, Vet Rad and Ultrasound 2002	40	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)
Bonagura et al. Echocardiography: principles of interpretation, Vet	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. The only cause of a murmur identified is increased flow velocity through the LVOT/aortic root. No obvious subaortic narrowing or valvular abnormalities are visualized, and in the absence of structural issues this is considered a benign flow murmur. If the murmur persists or progresses, it is reasonable to monitor periodically via recheck echocardiography in the future. Additionally screening for fluid status abnormalities (dehydration, anemia, etc.) is recommended through routine lab work as volume changes can make this finding more prevalent. Trivial MR is noted, which may reflect early valve disease or may simply be physiologic in origin. Follow up is advised. No significant valvular insufficiencies were noted and no structural issues identified. The ECG is unremarkable with a respiratory sinus arrhythmia.

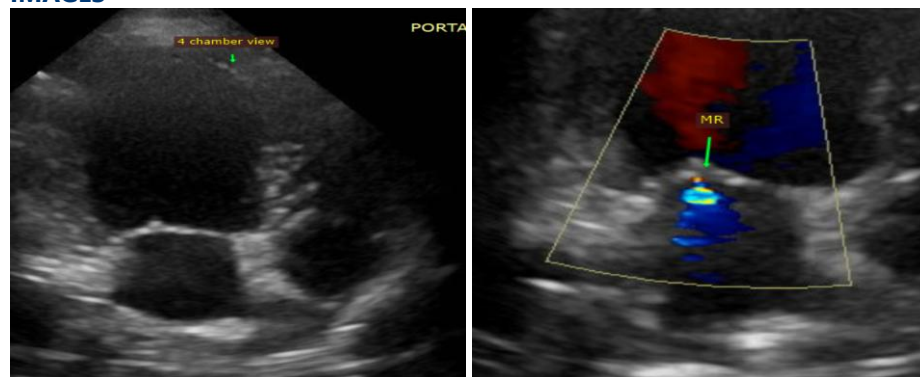
No cardiac medications are indicated. Prognosis is open.

No cardiac contraindication for general anesthesia.

Monitor for any development of cough, labored breathing or exercise intolerance.

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

**IMAGES**



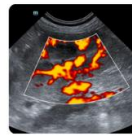
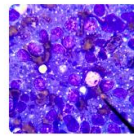
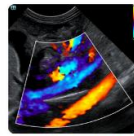
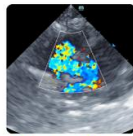
The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. This report was generated using transcription software, and minor

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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)**  
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