

**PATIENT**

Mia Terry

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

Spayed Female

**AGE**

4 Years

**WEIGHT**

8 pounds

**INTERPRETED BY**

Sara Brethel DVM,  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

Banfield Salem

**REFERRING VET**

Dr. Marcberg

**INVOICE**

13560

**DATE**

02/03/26

**PRESENTING CLINICAL SIGNS**

- Clinical Exam Findings: Exam performed 1/26/26, 2/6 left systolic heart murmur
- ABNORMAL Labwork Values: 12/02/25 BUN above normal: 28mg/dL
- HR/RR/BP: 130 bpm/25brpm

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	--	--	NM	1.45	41.74	NM	0.19
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LAD LA MAX 4 Chamber	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				
PATIENT	NM	1.15	1.17	3.63	1.9	2.6	1.2

**Cardiac Presentation**

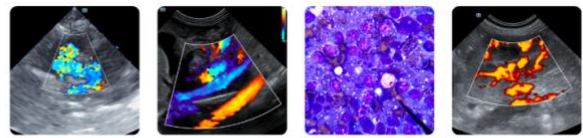
The mitral valve leaflets are mildly thickened with no mitral regurgitation posteriorly directed. There is no prolapse of the mitral valve leaflets. The left atrial size is normal. Left ventricular internal dimensions during diastole are within normal limits and systolic function is preserved in the face of mitral regurgitation. There is normal right atrial size without tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension based upon tricuspid regurgitant velocities. The right ventricle subjectively appears normal in structure and function. The aortic and pulmonic valves have normal morphology and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

**ULTRASONOGRAPHIC FINDINGS**

- Mild degeneration without significant mitral regurgitation of the mitral valve.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There are mild degenerative changes to the valve itself. Mitral regurgitation is not identified on the images provided, however, it is possible that there is some underlying mitral regurgitation. Regardless, the left atrium measure is normal along with left ventricular dimensions and no cardiac therapies are



**PATIENT**

recommended at this time.

Mia Terry

A recheck echo would be recommended in 10 to 12 months, sooner if cardiovascular clinical signs are developing.

**SPECIES**

Canine

Recommend obtaining a blood pressure on the patient to ensure it is <160mmHg. If the blood pressure is elevated recommend following ACVIM guidelines for systemic hypertension and treating if indicated.

**BREED**

Chihuahua

Standard perioperative fluid rates should be well-tolerated. Medications like dexmedetomidine and other alpha 2 agonists are best avoided. Ketamine is also best avoided. Anticholinergics can be used in the case of a clinically significant bradyarrhythmia (i.e., bradycardia with concurrent hypotension). If the patient is on an ACEi, recommend not giving this therapy the day of anesthesia.

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

**HOSPITAL NAME**

Banfield Salem

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

Sara Brethel DVM, DACVIM (Cardiology)

**REFERRING VET**

Dr. Marcberg

[info@SonoPath.com](mailto:info@SonoPath.com)

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