

**PATIENT**

Zero Cruz

**SPECIES**

Canine

**BREED**

Greyhound X

**SEX**

Neutered Male

**AGE**

11 Years

**WEIGHT**

15.2 Pounds

**INTERPRETED BY**

Sara Brethel, DVM,  
 DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

Countryside AC

**REFERRING VET**

Dr. Heider

**INVOICE**

36468

**DATE**

3/31/26

**PRESENTING CLINICAL SIGNS**

Clinical Exam Findings: Discussed heart murmur - recommended echocardiogram for full evaluation, recommended thoracic radiographs for initial evaluation. Discussed clinical signs to watch for indicating recheck and/or CHF - RR >30 breaths/min at rest, coughing, exercise intolerance

HR/RR/BP: 140 BPM - Resp 40

Is there a Heart Murmur? If so, please grade: Grade 4

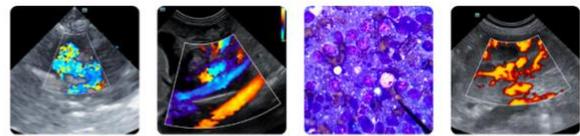
Current Medications: Vetmedin 1.25 mg 1.5 tabs BID - Furosemide 20 mg 1 tab BID

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

<b>CANINE CARDIAC PARAMETERS</b>	<b>MR VMAX</b> (m/s)	<b>TR VMAX</b> (m/s)	<b>LA/AO</b> (M-Mode)	<b>LA/AO</b> (Heart Base; Swe)	<b>FS</b> (%)	<b>EF</b> (%)	<b>EPSS</b> (cm)
<b>NORMAL PARAMETER</b>	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
<b>PATIENT</b>	6.2	-	--	1.68	51.04	--	--
<b>CANINE CARDIAC PARAMETERS</b>	<b>HR</b> (BPM)	<b>AV VMAX</b> (m/s)	<b>PV MAX</b> (m/s)	<b>BODY WEIGHT</b> (kg)	<b>LAD</b> LA MAX 4 Chamber	<b>LVIDd</b> Avg; 2D and m-mode short axis (cm)	<b>LVIDs</b> Avg; 2D and m-mode short axis (cm)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6				
<b>PATIENT</b>	NM	2.09	1.2	6.9	3.6	3.37	1.65

**Cardiac Presentation**

The mitral valve leaflets are moderately thickened with moderate mitral regurgitation posteriorly directed. There is moderate prolapse of the mitral valve leaflets. The left atrial size is mildly to moderately increased. Left ventricular internal dimensions during diastole are increased 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 insufficiency. There is mild 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.



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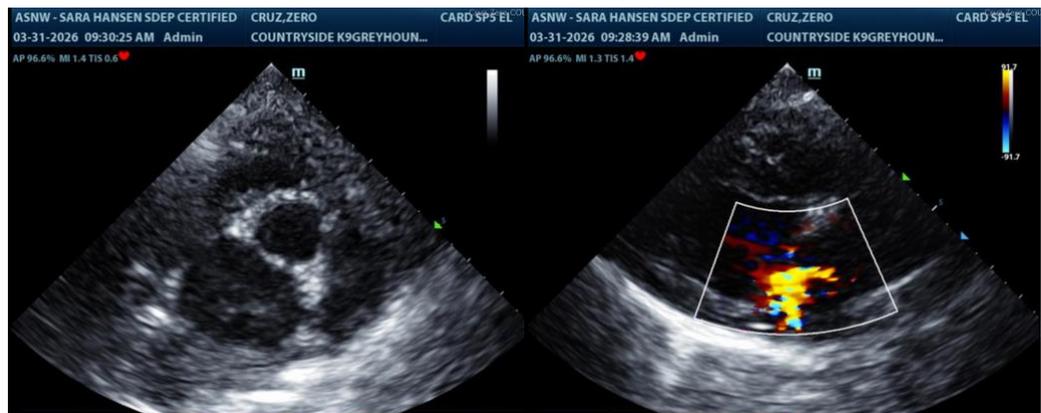
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**ULTRASONOGRAPHIC FINDINGS**

- Degenerative valve disease, ACVIM stage B-1
- Mild to moderate left atrial enlargement
- Aortic insufficiency

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There are no reported signs of congestive heart failure. As long as there is no evidence of cardiogenic pulmonary edema on chest radiographs, diuretic therapy is not recommended at this time, and I would discontinue the furosemide. I would continue the Vetmedin, as there is left atrial enlargement. Recommend ensuring the patient's blood pressure is normal, especially in the face of the aortic insufficiency. Continued monitoring is recommended. The client should start monitoring respiratory rate and effort at home if not already doing so. The resting respiratory rate should be < 35-40 breathes/minute when the patient is resting or sleeping. If the breathing rates are increasing, then chest radiographs are recommended. Recheck echo is recommended in 6 months, sooner if cardiovascular clinical signs are developing.



**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.**

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)

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