



**PATIENT**

Ranger Appleton

**SPECIES**

Canine

**BREED**

Labrador Retriever

**SEX**

Neutered Male

**AGE**

6 Years

**WEIGHT**

107 Pounds

**INTERPRETED BY**

Sara Brethel, DVM,  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

Banfield PH- North  
Eugene

**REFERRING VET**

Dr. Fioretti

**INVOICE**

37325

**DATE**

6/4/26

**PRESENTING CLINICAL SIGNS**

Clinical Exam Findings: obese, murmur, wound/scar. ABNORMAL Labwork Values: CBC: NSF, IOF: ALKP 367 (H). HR/RR/BP: hr: 130, resp: 30, no blood pressure taken. Is there a Heart Murmur? If so, please grade: 3/6 murmur. Current Medications: Pet was sent home today with Clavamox 375mg 1.5 tab po bid, Rimadyl 75mg 1 tab po bid, Mometamox for ears and ear flush. Pet is also on Simparaca Trio monthly.

**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)
<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>	--	--	1.01	1.23	45.45	--	NM
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)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6				
<b>PATIENT</b>	--	1.48	1.4	48.63	4.15	4.4	2.4

**Cardiac Presentation**

The mitral valve leaflets are normal and there is no mitral regurgitation. There is no prolapse of the mitral valve leaflets. The left atrial size is normal. Left ventricular systolic and diastolic function is within normal limits. There is normal right atrial size without evidence of tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension on today's evaluation. 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**

- Structurally normal heart

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**



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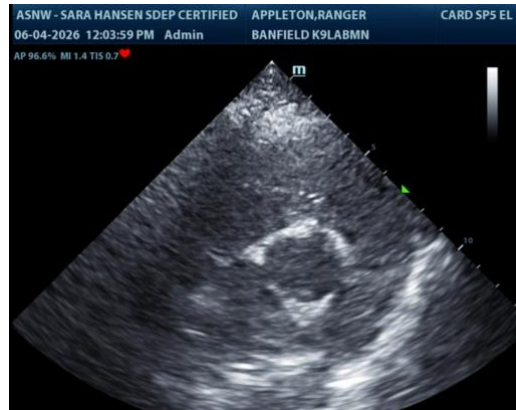
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The heart is structurally normal. The cause of the murmur is not identified based upon the images provided. Recommend ensuring the patient's blood pressure is within normal limits. Recommend obtaining a blood pressure on the patient to ensure it is <160mmHg. If the blood pressure is elevated recommend following ACVIM guidelines for systemic hypertension and treating if indicated. Given the presence of a murmur, can consider yearly proBNP or can consider another echo in one year.



**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)

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