



**PATIENT**  
Ripley Wolf

**SPECIES**  
Canine

**BREED**  
Retriever Mix

**SEX**  
Female Spayed

**AGE**  
5 years

**WEIGHT**  
63lbs

**PRESENTING CLINICAL SIGNS**

History: Ripley is referred to evaluate a heart murmur. She is currently doing well with normal appetite and activity level. She was previously fed a grain free diet but has been off of it for ~ 2 years. 18th September 2022: ProBNP---> 1011. On exam: NSR, no murmurs noted, PSS, lung fields clear, mm, pink moist, CRT<2. BP: 150-160mmHg. \*Sedated with propofol for study.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and Doppler imaging is available.

**Left ventricle:** The LV diameter is normal with adequate myocardial function. LV wall thicknesses are normal.

**Left atrium:** The left atrium is normal.

**Mitral valve:** The mitral valve is mildly thickened with no prolapse into the left atrial lumen. Trivial mitral regurgitation.

**Aortic valve/Aorta:** The aortic valve is normal in morphology and mobility. Normal aortic outflow velocity; laminar flow. No aortic insufficiency.

**Right ventricle:** Normal right ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension.

**Right atrium:** Normal RA dimension.

**Tricuspid valve:** The tricuspid valve appears normal with no tricuspid regurgitation.

**Pulmonic valve/Pulmonary artery:** The pulmonic valve is normal in morphology and mobility. Trace pulmonic insufficiency. Normal RVOT velocity; laminar flow.

**Pericardium/other:** No pericardial or pleural effusion noted. No obvious cardiac masses.

**Heart rhythm:** ECG reveals a sinus rhythm with an average HR of 140bpm.

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**2-Dimensional Measurements**

Ao diam (cm)	2.2
LA diam (cm)	2.2
LA:Ao (Swe)	1.0
IVS thickness (cm)	1.0
LVID diastole (cm)	2.5
PW thickness (cm)	1.0
LVID systole (cm)	1.6
FS (%)	36

**Doppler Measurements**

PV Vmax (m/s)	0.77
AoV Vmax (m/s)	1.0
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

**IMAGING PERFORMED BY**

Pamela Harrigan,  
RDCS

**INTERPRETATION OF THE FINDINGS**

Overtly normal cardiac structure and function. No cause of the murmur is identified in this study. Trivial MR is noted; however, this is unlikely to be heard on physical exam. In the absence of significant volume changes (dehydration) or anemia, other possibilities include a physiologic flow murmur only present with elevated heart rates (**potentially masked by sedation**), or a small flow abnormality not seen here. Baseline lab work is recommended if not recently performed. It is reasonable to monitor periodically via recheck echocardiography in the future, particularly should the murmur persist/progress. No significant valvular insufficiencies were noted, and no structural issues identified. No evidence of diet-related cardiomyopathy.

**HOSPITAL NAME**

Mass Veterinary Services

**REFERRING VET**

Dr. Masloski

**INVOICE**

28643

**DATE**

1/31/23

No cause of BNP elevation is identified in this study, which may suggest a false positive result. Consider ancillary causes, such as SHT; however, the reported blood pressure is reasonable.



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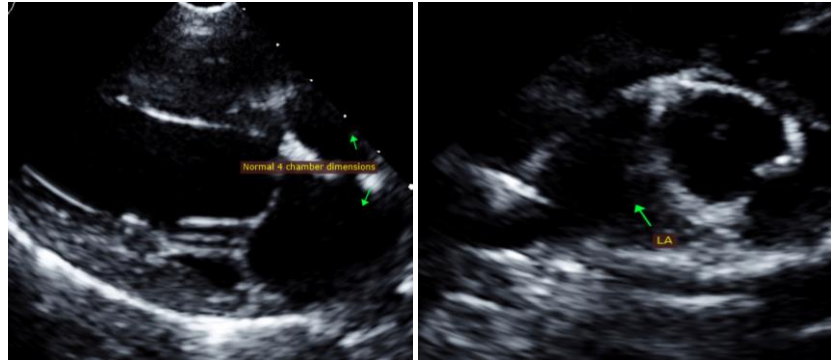
**RECOMMENDATIONS**

- No cardiac medications are indicated at this time. Monitor for any development of cough, labored breathing or exercise intolerance.
- No cardiac contraindication for general anesthesia.

**PLAN**

- Recommend recheck echocardiogram in 12-18 months to screen for progression or 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 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)  
info@sonopath.com

Echocardiogram performed by: Pamela Harrigan, RDCS  
Pet Animal Ultrasound Service (4paus.com)