



**PATIENT**

Loki Gunther

**SPECIES**

Canine

**BREED**

American Bulldog

**SEX**

Male Intact

**AGE**

7 months

**WEIGHT**

59lbs

**PRESENTING CLINICAL SIGNS**

History: Loki was noted to have a heart murmur on his initial puppy exam. He is clinically doing well with no problems. He is eating well and continues to be active and playful. On exam, NSR, grade III/VI murmur with PMI left apical area, PSS, lung fields clear. BP not obtained. \*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 decreased 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 mildly thickened with no tricuspid regurgitation.

**Pulmonic valve/Pulmonary artery:** The pulmonic valve is normal in morphology and mobility. No 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 150bpm.

**INTERPRETED BY**

Maggie Machen Lamy, DVM DACVIM (Cardiology)

**2-Dimensional Measurements**

Ao diam (cm)	1.8
LA diam (cm)	1.2
LA:Ao (Swe)	1.2
IVS thickness (cm)	1.1
LVID diastole (cm)	2.96
PW thickness (cm)	1.0
LVID systole (cm)	1.9
FS (%)	34

**Doppler Measurements**

PV Vmax (m/s)	1.0
AoV Vmax (m/s)	1.4
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. 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. 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.

**HOSPITAL NAME**

Mass Veterinary Services

**REFERRING VET**

Dr. Masloski

**INVOICE**

23634

**DATE**

4/13/22

**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.



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**PLAN**

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

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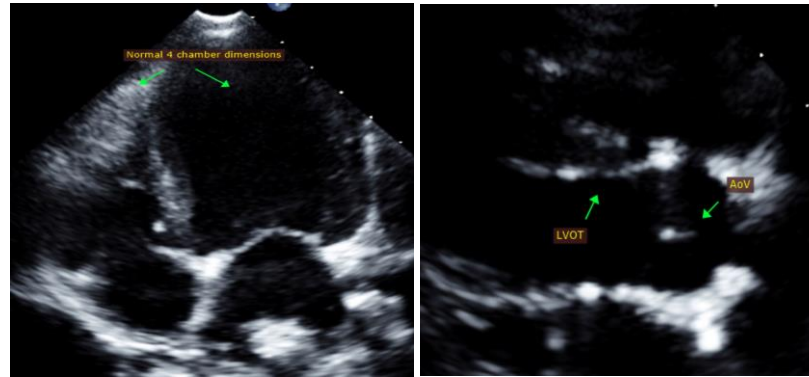
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**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**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)

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Echocardiogram performed by:

Pamela Harrigan, RDMS

Pet Animal Ultrasound Service (4paus.com)

**IMAGING PERFORMED BY**

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RDMS

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