

**PATIENT**  
Timmy Mowatt

**PRESENTING CLINICAL SIGNS**

History: Presents for evaluation of a grade III/VI systolic murmur. Doing well clinically, good appetite and energy, no cough or labored breathing. Needs dental procedure.

**SPECIES**  
Feline

**ECHOCARDIOGRAM FINDINGS**

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

**BREED**  
DSH

**Left ventricle:** The LV diameter is mildly increased with adequate myocardial function. The LV wall thicknesses are slightly decreased with diffuse remodeling. There is a diffusely hyperechoic endocardium consistent with mild fibrosis. The papillary muscles are mildly remodeled and hyperechoic.

**SEX**  
Male Neutered

**Left atrium:** The left atrium is mildly enlarged. No obvious spontaneous contrast or thrombi seen.

**AGE**  
4 years

**Mitral valve:** The mitral valve is normal in structure and mobility with no mitral regurgitation. No obvious systolic anterior motion is seen.

**WEIGHT**  
13.38lbs

**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:** The right atrium is normal in dimension.

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**Tricuspid valve:** The tricuspid valve appears normal 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 167bpm.

**IMAGING PERFORMED BY**

Pamela Harrigan,  
RDMS

**2-Dimensional Measurements**

Ao diam (cm)	1.1
LA diam (cm)	1.5
LA:Ao (Swe)	1.4
IVS thickness (cm)	0.43
LVID diastole (cm)	2.0
PW thickness (cm)	0.44
LVID systole (cm)	0.91
FS (%)	55

**Doppler Measurements**

PV Vmax (m/s)	0.7
AoV Vmax (m/s)	1.1
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

**HOSPITAL NAME**

Mass Veterinary  
Specialty Services

**REFERRING VET**

Dr. Masloski

**INVOICE**

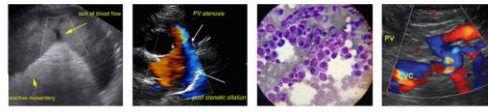
20812

**DATE**

8/31/21

**INTERPRETATION OF THE FINDINGS**

The primary abnormality identified is mild LA and LV dilation with normal to slightly decreased LV wall morphology. This is more than is expected in a normal 4-year-old cat and there is great concern this may reflect early restrictive disease (RCM). The LA is mildly enlarged indicating low risk for complication at this time. Serial echocardiography will be necessary to determine progression. No cause for the murmur is identified in this study, making it likely physiologic in origin (i.e., secondary to tachycardia, volume changes, etc.).



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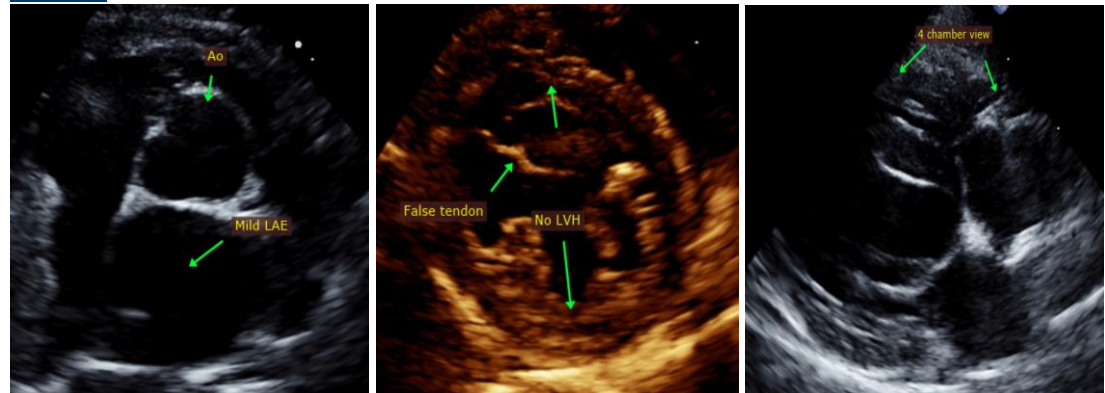
**RECOMMENDATIONS**

- Given these findings, no medications are indicated.
- The risk for general anesthesia is low, however heart rate stimulating drugs such as atropine, glycopyrrolate, etc. should be avoided unless medically necessary. With this degree of LV remodeling there may be an elevated risk for fluid overload in this patient and judicious IV fluid use is recommended.
- Monitor for any clinical evidence of cardiac compromise, including respiratory changes and/or signs of a blood clot event (paralysis, neurologic changes, etc.

**PLAN**

- Recommend recheck echocardiogram in 6-12 months to reassess murmur origin and screen for progressive LA dilation.

**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)