



**PATIENT**

George Rhodes

**PRESENTING CLINICAL SIGNS**

History: Recheck echo. Grade 4/6 heart murmur. Assess prior to dental.  
-Pertinent previous echo findings (1/2022 MD): Static HOCM with mild LAE. IVSd: 0.7, LVWd: 0.68, LA: 1.4-1.5. \*Based upon the prior report, patient is taking Atenolol.

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Male Neutered

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is highly irregular, with regions of thinning contrasting regions of moderate hypertrophy. There is a diffusely hyperechoic endocardium consistent with fibrosis and ventricular remodeling. Papillary muscle hypertrophy. The right ventricle is subjectively normal in size and morphology. There is mild left atrial enlargement present. No right atrial enlargement present. Normal RVOT velocity. There is systolic anterior motion (SAM) of the mitral valve is present, although the measured LVOT velocity is normal. There is trace mitral regurgitation present secondary to SAM. Mild TR. Trace AI with a dilated ascending aorta. There is no pericardial effusion noted. No pleural effusion appreciated.

**CARDIAC CHART**

**AGE**

13 years

**WEIGHT**

6.5lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) (Moise, Pipers)	LVIDd (cm) (Moise, Pipers)	LVWd (cm) (Moise, Pipers)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	2.9	170	0.78	1.0	0.65	50	86
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Swe) (Abbott)	LA 2D short axis Base view (cm) (Abbott)	LVOT VEL (m/s)	RVOT VEL (m/s)	E max (m/s)	
NORMAL	<1.5	<1.3	<1.2	<1.6	<1.3	<0.9	
PATIENT	1.6	1.6	1.5	0.7	2.0	NM	

\*Note: All measurements based upon multi-modal images and methods. An average value is reported.

Adapted from June Boon, Veterinary Echocardiography, 1998

Abbott J & MacLean H JVIM 2006;20: 111-119, Moise et al. Am J Vet Res 47:1476, 1986. Pipers et al. Am J Vet Res 40:882, 1979.

**IMAGING PERFORMED BY**

Sarah Pender, CVT

**HOSPITAL NAME**

SVS Imaging QC

**REFERRING VET**

Dr. Trammell

**INVOICE**

28459

**DATE**

1/19/23

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Compared to the prior study, findings appear similar. HOCM is largely unchanged with significant irregular hypertrophy. The LA is mildly dilated suggesting relative stability. Finally, the aortic root and ascending segment appear dilated with a small insufficiency appreciated. **A blood pressure is strongly recommended in this case.** No additional issues are identified.

Given these findings, continue Atenolol as previously recommended.

Anesthetic risk is considered mild, however judicious IV fluid rates are advised to avoid fluid overload. Additionally, drugs that stimulate heart rate should be avoided unless clinically necessary (glycopyrrolate, atropine). Avoid vasodilators as this may worsen the obstruction. A reasonable protocol includes opioid/benzodiazepine premedication, propofol induction, isoflurane maintenance. Risk for complication with steroid use typically follows LA dilation, which

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in this case is mildly elevated. If needed, monitoring of RR/RE is advised particularly in the initiation phase.

**SPECIES**

Feline

Monitor at home for any respiratory signs or blood clot events (neurologic change, paralysis, etc.) in the future.

**BREED**

DSH

**PLAN**

Screening BP/T4. Continue Atenolol, ensuring the heart rate maintains between 140-160bpm.

Recommend recheck echocardiogram in 6 months to assess for progression, sooner if clinical issues arise.

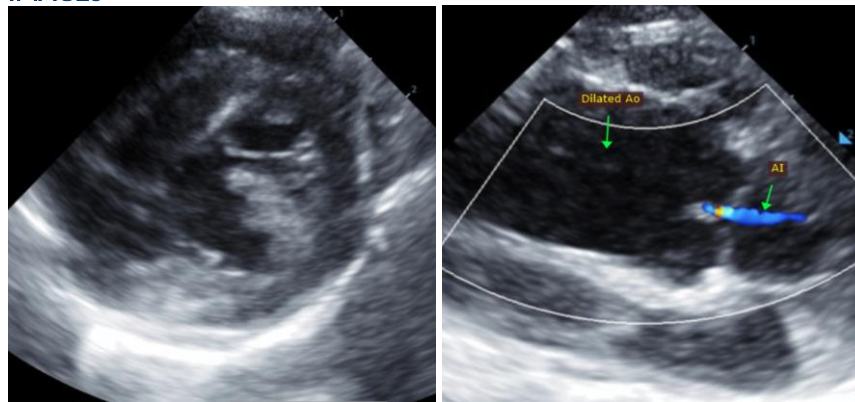
**SEX**

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**IMAGES**

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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.

**IMAGING PERFORMED BY**

Sarah Pender, CVT

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.

Maggie Machen Lamy, DVM  
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)  
info@sonopath.com

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