



PATIENT

Toto Lajoie

PRESENTING CLINICAL SIGNS

History: Grade III/VI heart murmur; no clinical signs. BP: 147, 148, 149mmHg.

SPECIES

Feline

BREED

DLH

SEX

Male Neutered

AGE

4 years

WEIGHT

15.5lbs

ECHOCARDIOGRAM FINDINGS

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

Left ventricle: The LV chamber is decreased; adequate myocardial function. The LV wall thicknesses are markedly increased. There is a diffusely hyperechoic endocardium consistent with fibrosis. The papillary muscles are severely hypertrophied and hyperechoic. False tendon. The endocardium appears mildly remodeled.

Left atrium: The left atrium is normal. No smoke or thrombi seen.

Mitral valve: The anterior leaflet of the mitral valve appears mildly thickened. Systolic anterior motion is seen on 2D imaging. Moderate eccentric MR.

Aortic valve/Aorta: The aortic valve is normal in morphology and mobility. Increased aortic outflow velocity with a fixed profile. 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.

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

Pulmonary valve/Pulmonary artery: The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency. Mildly elevated RVOT velocity.

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

Heart rhythm: ECG reveals a sinus rhythm with an average HR of 250bpm.

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

2-Dimensional Measurements

Ao diam (cm)	0.9
LA diam (cm)	1.1
LA:Ao (Swe)	1.2
IVS thickness (cm)	0.81
LVID diastole (cm)	0.91
PW thickness (cm)	0.98
LVID systole (cm)	0.50
FS (%)	45

Doppler Measurements

PV Vmax (m/s)	1.8
AoV Vmax (m/s)	3.5
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

IMAGING

PERFORMED BY

Pamela Harrigan,
RDCS

INTERPRETATION OF THE FINDINGS

The diagnosis and cause of the murmur is hypertrophic obstructive cardiomyopathy (HOCM). This indicates some degree of LV thickening (marked in this case) with a dynamic LVOT obstruction (SAM). The MV is mildly thickened, which may suggest a valvular component. Regardless, there is no left atrial dilation, indicating the risk for progression to spontaneous CHF and/or a thrombotic event is currently low. That being said, marked LV hypertrophy in a young patient is highly concerning going forward. No additional issues are identified.

HOSPITAL NAME

Wignall Animal
Hospital

REFERRING VET

Dr. Detelich

INVOICE

27749

DATE

12/1/22

While no medications have been shown to definitively alter long term outcome at this stage of disease, atenolol is often initiated to decrease the outflow obstruction. This is certainly recommended in this case given the degree of hypertrophy and marked LVOT obstruction. Prognosis is guarded given the severity of disease in this relatively young cat. Patient will always be risk for progression to CHF, development of blood clots and/or sudden death in the future.



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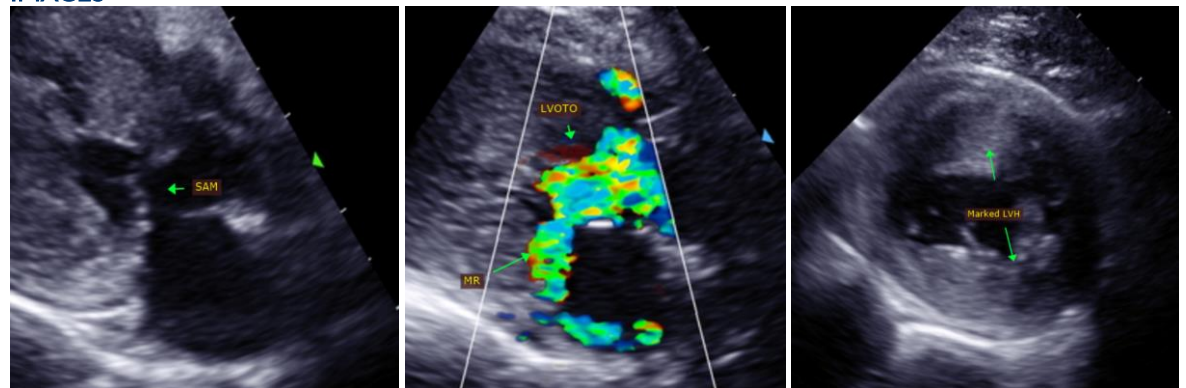
RECOMMENDATIONS

- Administer titrating dose of atenolol: 25mg tablets; Give ¼ tab once daily. Recheck heart rate in 1-2 weeks with target stressed rate of 140-160bpm 12-24 hours post-administration. Increase as needed until target reached.
- Screening BP/T4 if not recently performed.
- Anesthetic risk is considered elevated, with high risk for fluid overload, spontaneous CHF, hypotension, etc. Judicious IV fluid rates are advised to avoid fluid overload. Drugs that stimulate heart rate should be avoided unless clinically necessary (glycopyrrolate, atropine). Avoid ketamine, telazol, acepromazine and Dexdomitor.
- 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 months to assess rate of progression, sooner if any issues arise in the interim.

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.

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