



PATIENT
Gabby Gottlieb

PRESENTING CLINICAL SIGNS

History: Gabby is referred to evaluate a heart murmur noted 5 months ago. No cardiac clinical signs. Good appetite and is playful. On exam: NSR, grade II/VI parasternal murmur, PSS, lung fields clear, compressible thorax. BP: 120mmHg x 4. No medications. *No sedation for study.

SPECIES
Feline

ECHOCARDIOGRAM FINDINGS

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

BREED
DSH

Left ventricle: The LV diameter is normal with adequate myocardial function. The LV wall thicknesses are mildly increased, with regions of irregularity. There is a mildly hyperechoic endocardium consistent with fibrosis. The papillary muscles are mildly hypertrophied and hyperechoic. The endocardium appears mildly remodeled.

SEX
Female Spayed

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

Mitral valve: The MV leaflets appear normal. Systolic anterior motion is seen on 2D and color flow imaging. Trace eccentric MR.

AGE
3.3 years

Aortic valve/Aorta: The aortic valve is normal in morphology and mobility. Mildly elevated aortic outflow velocity with a dynamic 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 trace tricuspid regurgitation.

WEIGHT
9.13lbs

Pulmonary 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 230bpm.

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

2-Dimensional Measurements

Ao diam (cm)	0.9
LA diam (cm)	1.2
LA:Ao (Swe)	1.3
IVS thickness (cm)	0.67
LVID diastole (cm)	1.0
PW thickness (cm)	0.60
LVID systole (cm)	0.38
FS (%)	60

Doppler Measurements

PV Vmax (m/s)	1.0
AoV Vmax (m/s)	3.4
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

IMAGING PERFORMED BY

Pamela Harrigan,
RDMS

HOSPITAL NAME

Mass Veterinary Services

INTERPRETATION OF THE FINDINGS

The diagnosis and cause of the murmur is hypertrophic obstructive cardiomyopathy. This indicates some degree of LV thickening (mild in this case) with a dynamic LVOT obstruction (SAM). The degree of disease appears mild with mild LVH and no left atrial enlargement, indicating the risk for spontaneous CHF and/or a thrombotic event is currently low. No additional issues are identified.

REFERRING VET

Dr. Masloski

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. Given the mild nature of the findings and lack of a severe obstruction, this is not yet indicated. Prognosis is guarded given the highly variable nature of feline cardiomyopathy.

INVOICE
25062

DATE
6/29/22



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DSH

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Female Spayed

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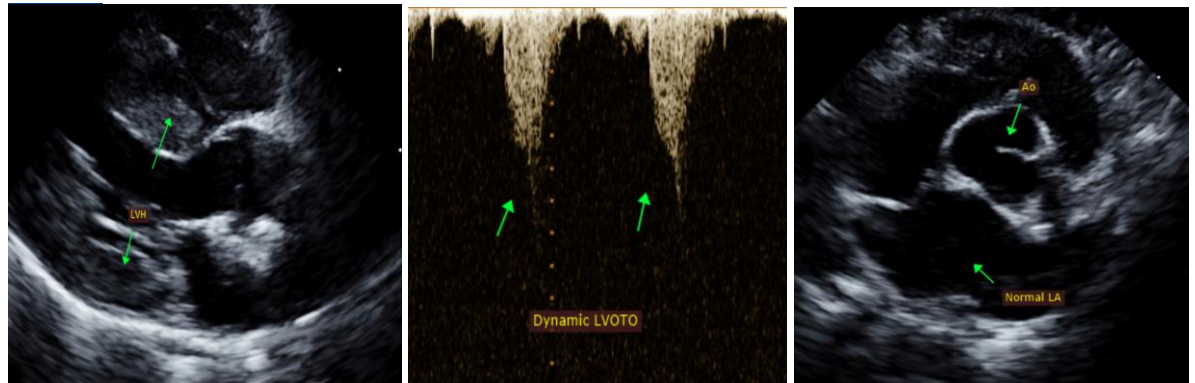
RECOMMENDATIONS

- If elected, institute 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.
- 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. Additionally, steroids should be used with caution on older cats, as even a 'normal' geriatric heart can develop evidence of intolerance and fluid retention.
- 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.

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)