


PATIENT

 Stroopwaffle
 Hindman

PRESENTING CLINICAL SIGNS

History: Grade 3 heart murmur with PMI in L hemithorax. Clear lungs. Moist pink mm. CRT < 2. BAR HR 140. RR 20. Assess prior to neutering.

SPECIES

Feline

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is highly irregular with a focal septal thickening. There is a diffusely hyperechoic endocardium. Papillary muscles appear normal. The right ventricle is normal. There is mild left atrial enlargement present. No right atrial enlargement present. Borderline RVOT velocity. The anterior leaflet of the mitral valve is difficult to visualize; however, elongation is suspected. Elevated LVOT velocity with a dynamic profile. There is mild eccentric mitral regurgitation present. No TR. No other obvious valvular regurgitation is present. No obvious intra or extracardiac shunts seen. There is no pericardial effusion noted. No pleural effusion appreciated.

BREED

Persian

SEX

Male Intact

AGE

2 years

CARDIAC CHART
WEIGHT

8.6lbs

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	3.9	140	0.55	1.46	0.46	50	92
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	1.4	1.4	1.4	2.7	1.8	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.

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Kelly Reschny, RVT

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The diagnosis and cause of the murmur is mitral valve dysplasia leading to mild MR and an obstructive LVOT flow pattern. A primary HOCM component cannot be ruled out as a concurrent issue particularly given only mild MV abnormality. There is mild left atrial dilation indicating the risk of spontaneous CHF and/or a thrombotic event is currently low.

HOSPITAL NAME

 Governors Road
 Animal Hospital

REFERRING VET

Dr. Dogar

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. In cases of solely primary MV dysplasia this can lead to improvement in the degree of obstruction and hypertrophy. Given the young age of the cat and today's findings it is reasonable to initiate at this time as below.

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Monitor at home for any respiratory signs or evidence of blood clot events (neurologic change, paralysis, etc.).



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Long term prognosis is guarded given the age of the patient and highly variable nature of asymptomatic feline heart disease. Many cats will remain asymptomatic until mid-life or beyond, while others develop CHF within the first years. Close monitoring for progression to LA dilation in the future will help determine long term prognosis.

SPECIES

Feline

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.

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PLAN

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 blood pressure is recommended if possible.

AGE

2 years

Recommend recheck echocardiogram in 6-12 months to assess for progression and response to therapy, sooner if clinical issues arise.

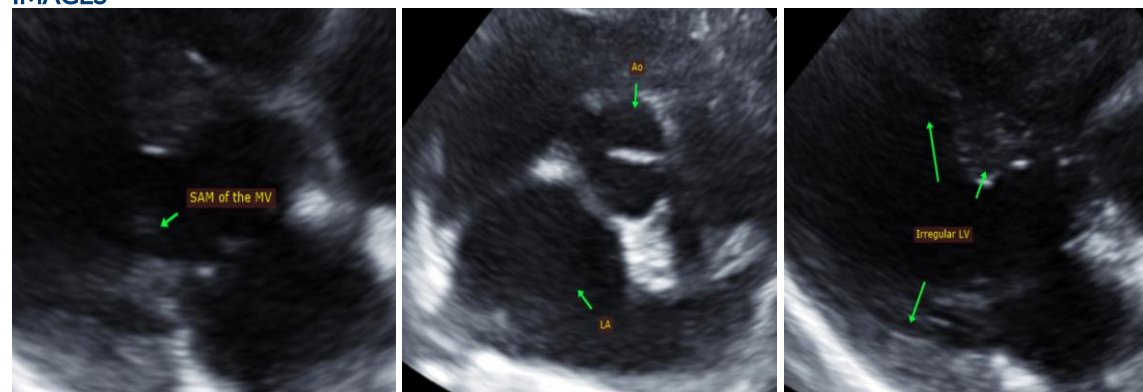
WEIGHT

8.6lbs

IMAGES

INTERPRETED BY

Maggie Machen Lamy,
DVM DACVIM
(Cardiology)



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Kelly Reschny, RVT

HOSPITAL NAME

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Animal Hospital

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.

REFERRING VET

Dr. Dogar

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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