



## PATIENT

Marbles Thompson

## SPECIES

Feline

## BREED

DSH

## SEX

Male Neutered

## AGE

13 years

## WEIGHT

18.7lbs

## INTERPRETED BY

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

## IMAGING PERFORMED BY

Jacque Pankatz,  
DVM

## HOSPITAL NAME

Mountain Vista  
Veterinary Hospital

## REFERRING VET

Dr. Pankatz

## INVOICE

30052

## DATE

4/4/23

## PRESENTING CLINICAL SIGNS

History: Cardiac arrhythmia was noted on routine physical exam. No heart murmur. History of possible arthritis and conjunctivitis. Gabapentin was given to facilitate the exam.

Abnormal PE/Chem/CBC/UA Results: CBC, biochem and T4 normal. ProBNP: 442. BP: WNL.

## ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is largely normal in dimension with a focal septal bulge. There is a diffusely hyperechoic endocardium consistent with fibrosis. The papillary muscles are mildly remodeled and hyperechoic. The endocardium also appears remodeled. The left atrium is normal in size. The right atrium is normal in size. The right ventricle appears normal. The mitral valve is normal in structure and mobility. Blood flow through both the LVOT and RVOT is normal in velocity. No pleural or pericardial effusion seen. No obvious cardiac tumors. Premature beats noted throughout the study.

## CARDIAC CHART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) <small>(Moise, Pipers)</small>	LVIDd (cm) <small>(Moise, Pipers)</small>	LVWd (cm) <small>(Moise, Pipers)</small>	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	8.7		0.74	1.57	0.51	52	90
FELINE CARDIAC PARAMETERS	LA/AO <small>(Boon)</small>	LA/AO HEART BASE (Swe) <small>(Abbott)</small>	LA 2D short axis Base view (cm) <small>(Abbott)</small>		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	1.2	1.3	1.3		1.9	0.7	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.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The only abnormality appreciated is a focal septal bulge with significant LV remodeling and fibrosis. These findings may be indicative of early hypertrophic pathology or may simply represent a normal variant. Regardless, the left atrial dimension is normal, and there is minimal risk for complication at this time. No additional issues are identified. A baseline BP is recommended. Premature beats are noted throughout the study and a baseline ECG is recommended.

These findings do not explain development of an arrhythmia without significant structural disease present. Consider primary issues versus secondary to systemic illness. Further evaluation/treatment should be dictated by the ECG report.

Given these findings, no medications are indicated.

From a structural standpoint, there is no cardiac contraindication for general anesthesia. Mild IV fluid restriction is advised. Risk for complication with steroid use typically follows LA dilation,



**PATIENT**

Marbles Thompson

which in this case is low. That being said, any cat can experience unexpected signs of intolerance and monitoring of RR/RE is advised particularly in the initiation phase.

**SPECIES**

Feline

Recommend recheck echocardiogram in 1 year to screen for any progressive changes.

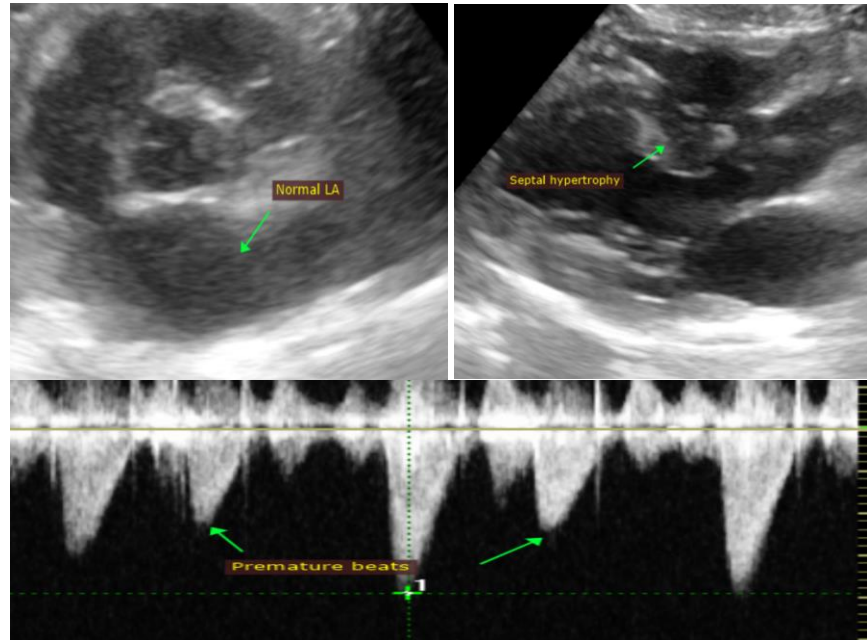
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**IMAGES**

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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**

Jacque Pankatz,  
DVM

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.

**HOSPITAL NAME**

Mountain Vista  
Veterinary Hospital

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