



## PATIENT

Harper Harms

## SPECIES

Feline

## BREED

DSH

## SEX

Female Spayed

## AGE

9 years

## WEIGHT

6.6lbs

## INTERPRETED BY

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

## IMAGING PERFORMED BY

Kelly Romero

## HOSPITAL NAME

Midtown Veterinary  
Medical Center

## REFERRING VET

Dr. Hunter

## INVOICE

30641

## DATE

5/7/23

## PRESENTING CLINICAL SIGNS

History: Recheck echo. History of bradycardia with an RAD. Intermittent murmur, grade 3/6. No current medications. Increased BNP: was 24, now 119. BP: 140mmHg.  
-Pertinent previous echo findings (5/2022 MML): NSF with remodeling.

## ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is normal in dimension. There is a diffusely hyperechoic endocardium consistent with age-related fibrosis. Mild remodeling. The papillary muscles are hyperechoic. 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. No MR. The tricuspid valve appears normal in structure and mobility. No TR. Blood flow through both the LVOT and RVOT are normal in velocity. No effusions. No obvious cardiac tumors.

## CARDIAC CHART

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	3.0	NM	0.42	1.0	0.40	57	90
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	NM	1.3	1.1		1.2	1.1	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

Persistently normal cardiac structure and function with no LV hypertrophy appreciated. Remodeling and fibrosis is similar to previous and cause for the murmur is apparent. The LA is normal, suggesting low risk for complication. No additional issues have developed.

Given these findings, no medications remain indicated.

No cause for progressive BNP elevation is seen in this study. Consider ancillary issues, such as systemic hypertension or renal disease.

No cardiac contraindication for general anesthesia. Should fluid or steroid therapy be indicated in the future, any cat should be monitored for intolerance (changes in RR/RE).

Monitor at home for signs of cardiac compromise, including respiratory changes and/or signs of a blood clot event (paralysis, neurologic changes).



**PATIENT**

Harper Harms

Recommend recheck echocardiogram in 1 year to assess for any progressive issues or development of disease the pre-existing murmur may mask.

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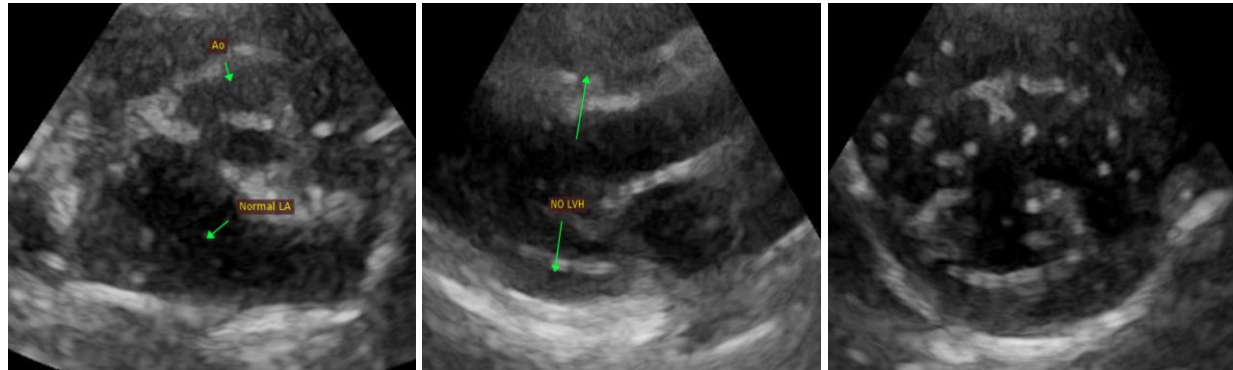
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**IMAGES**



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**

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