



**PATIENT**

Mr. Stripes Larson

**SPECIES**

Feline

**BREED**

DSH

**SEX**

MN

**AGE**

13 years

**WEIGHT**

16.5 lbs.

**INTERPRETED BY**

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

**IMAGING PERFORMED BY**

Sarah Pender, CVT

**HOSPITAL NAME**

SVS Imaging QC

**REFERRING VET**

Dr. Douglas

**INVOICE**

13124

**DATE**

1/19/22

**PRESENTING CLINICAL SIGNS**

last week was walking around then screamed and fell over, within a minute was back to normal self. has happened one other time. now patient is screaming in the middle of the night and wandering aimlessly. patient is on dasuquin sid and 100mg gabapentin prn for chronic arthritis. owner states that gabapentin is usually only effective for 1-2 hours and won't stop patient from screaming all night  
Abnormal PE/Chem/CBC/UA Results: proBNP - abnormal PE, CBC/Chem17/T4/SDMA - no abnormalities

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT		206	0.68	1.59	0.68	45.2	80
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT		2.1	1.8	1.2	0.7	NM	
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

**Cardiac Presentation**

The left ventricular wall is mildly hypertrophied with regions of myocardial irregularity. The endocardium exhibited diffuse, mildly hyperechoic echogenicity suggestive of remodeling and potential fibrosis. Minor papillary muscle hypertrophy with regions of remodeling were present. The right ventricle was of normal size. Moderate left atrial dimension was present with anechoic content and without overt evidence of spontaneous contrast. The right atrium was of normal size and structure. Suspected systolic anterior motion (SAM) of the mitral valve was present with normal LVOT velocity, yet subjective mild turbulent LVOT blood flow. Mild eccentric mitral valve insufficiency likely secondary to SAM was present. No evidence of tricuspid valve insufficiency was noted. No pericardial or free pleural fluid was noted. No evidence of cardiac tumors was present.



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**ULTRASONOGRAPHIC FINDINGS**

**Primary Findings**

- Hypertrophic obstructive cardiomyopathy

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The cardiac presentation was consistent with HCM / HOCM which is a rule-out diagnosis once the patient is deemed normotensive and euthyroid. Assessment of T4 levels and blood pressure is recommended. Although not definitively visualized, SAM is present creating mild turbulent LVOT flow and likely secondary mitral regurgitation. Moderate LA dilation indicates that the risk of spontaneous CHF and / or thrombotic event is elevated. However, without evidence of smoke or spontaneous contrast, it is difficult to say whether the reported episodes in this patient are secondary to a thrombotic event.

Clopidogrel 75 mg (1/4 tab) PO SID is recommended given the moderate LA enlargement. Consideration for Atenolol 6.25 mg BID is also warranted. However, there is mild risk to using this medication in a patient with moderate left atrial dilation as its negative inotropic properties could potentially make it easier for a patient to experience decompensation. If elected, consideration of this possible risk is warranted. Recheck echocardiogram is suggested in 6 months, sooner if clinical signs compatible with cardiac dysfunction develop.

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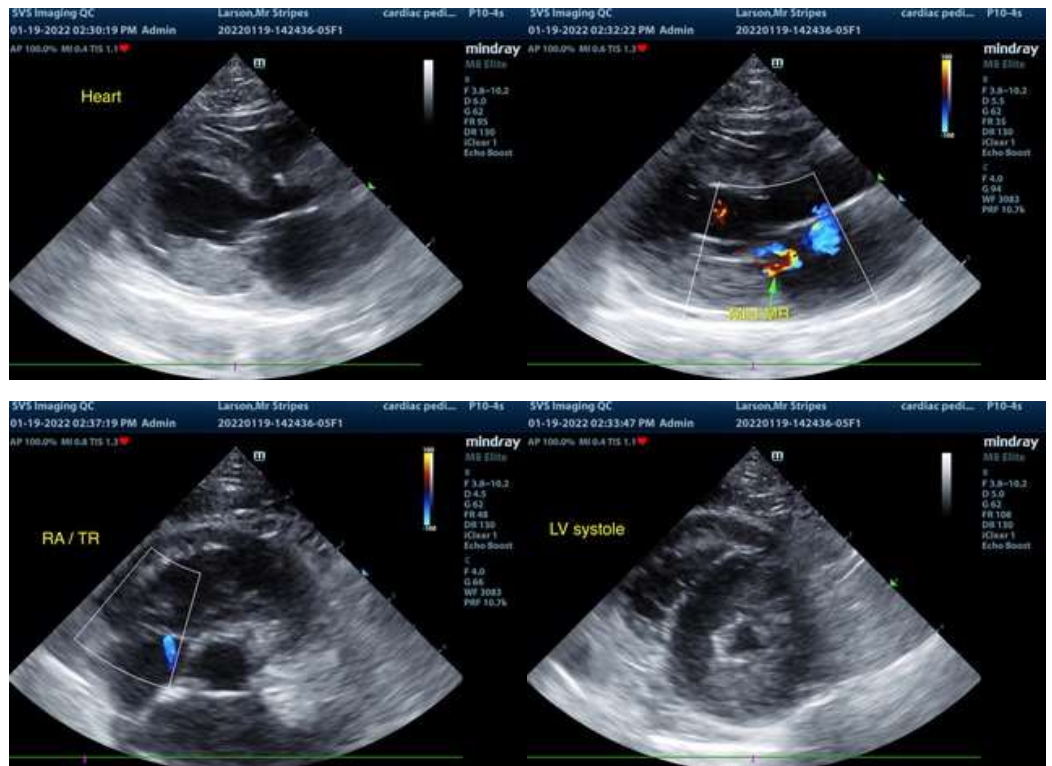
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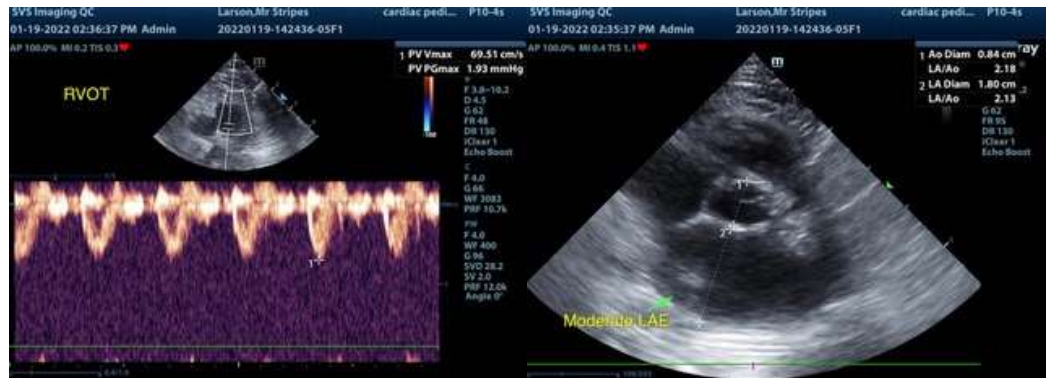
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

**R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)**  
info@SonoPath.com