



PATIENT

Little O Guzman

SPECIES

Feline

BREED

DSH

SEX

Male Neutered

AGE

13 years

WEIGHT

16.2lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Animal General on
Hudson

REFERRING VET

Dr. Tierney

INVOICE

20624

DATE

8/18/21

PRESENTING CLINICAL SIGNS

History: Recheck echo. Progressive murmur, grade 5/6. Intermittent arrhythmia. ECG pending.

-Current medications: Convenia.

-Pertinent previous echo findings (2/2020 MML): Borderline LVH, unknown murmur.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is borderline normal in dimension. There is a diffusely hyperechoic endocardium consistent with fibrosis and remodeling. The endocardium also appears mildly remodeled. The MV appears normal. An obstruction is not captured on 2D or color flow, however doppler is $>2.0\text{m/s}$ with a dynamic profile depending on HR. The left atrium is normal in size. The right atrium is normal in size. The right ventricle appears normal. Blood flow through the RVOT is normal in velocity. There is no pleural or pericardial effusion seen. There are no obvious cardiac tumors.

CARDIAC CHART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) <small>(Moise, Pipers)</small>	LVIDd (cm) <small>(Moise, Pipers)</small>	LWVd (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	7.3	160	0.58	1.5	0.59	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	1.3	1.1	1.0	2.2	1.05	NM	
<p><i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i></p> <p>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.</p>							

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Essentially normal cardiac structure and function persists. The murmur is presumed to be due to a dynamic LVOT obstruction, secondary to abnormal valve movement and elevated heart rates. This is presumptive as Doppler flows were suggestive. There is also borderline LV wall dimensions, in addition to mild remodeling and fibrosis of the left ventricular wall, both of which were noted on the prior study. This likely suggests this is a normal variant. Serial echocardiography remains necessary to determine progression. A screening BP and T4 are recommended.

In patients with persistent LVOT obstruction and an elevated pressure gradient, a beta blocker is often prescribed to lower heart rate and decrease the gradient. In this patient with a mild obstruction and borderline normal LA/LV dimensions, no medications are clearly indicated.



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Anesthetic risk is currently low. Avoid heart rate stimulating drugs (atropine, glycopyrrolate) unless clinically necessary. Avoid vasodilators such as acepromazine as this can worsen obstruction. Judicious IV fluid rates are recommended to avoid fluid overload in this patient with diastolic dysfunction.

SPECIES

Feline

A recheck echocardiogram is recommended in 6-12 months, sooner if any clinical signs arise.

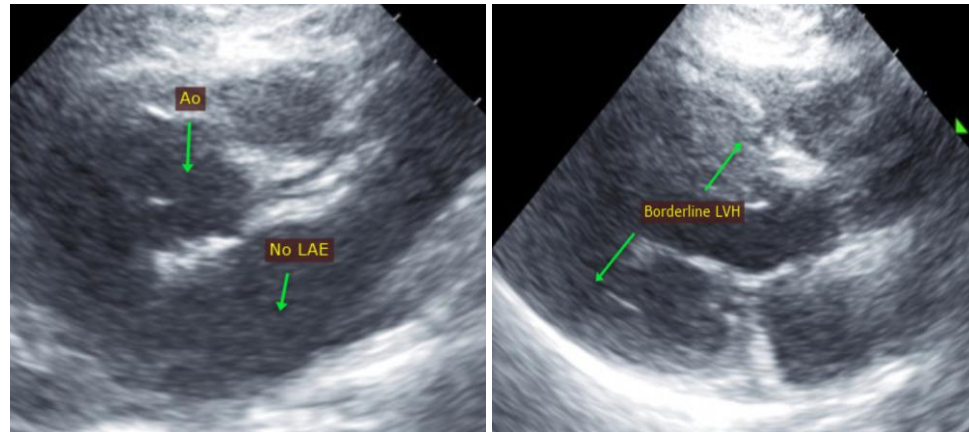
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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(Cardiology)

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.

IMAGING PERFORMED BY

Kelly Vazquez, CVT

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

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