



PATIENT

Peanut Moshier

SPECIES

Feline

BREED

DSH

SEX

Female Spayed

AGE

9 years

WEIGHT

5.7lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Kim Liedberg

PRESENTING CLINICAL SIGNS

History: Recheck echo. Has history of kidney and heart issues. Peanut has taken a turn for the worse. Frequent urination and urination outside of litter box. Thin body condition. Fluids are given once daily instead of twice a week now. Owner notes she feels better, but wheeze after treatment.
-Abnormal PE/Chem/CBC/UA Results: SDMA, Creat, Bun dramatically elevated starting 2 weeks ago.
-Pertinent previous echo findings (3/2022 MML): NSR with occasional pauses. Echo: NSF with a mid-LV obstruction.

ECHOCARDIOGRAM FINDINGS

in dimension with regions of irregularity. There is a diffusely hyperechoic endocardium consistent with fibrosis. The papillary muscles are remodeled and hyperechoic. The endocardium also appears remodeled. Mildly decreased LV dimension. The left atrium is normal in size. The right atrium is prominent. The right ventricle appears normal. The mitral valve is normal in structure and mobility. No MR. The tricuspid valve appears normal with no TR. Blood flow through both the LVOT and RVOT is normal in velocity. Prominent aortic root. Mild aortic and no pulmonic insufficiency. No pleural or pericardial effusion seen. 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>	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	2.6	200	0.52	0.9	0.50	60	94
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 <small>(m/s)</small>	RVOT VEL <small>(m/s)</small>	E max <small>(m/s)</small>	
NORMAL	<1.5	<1.3	<1.2	<1.6	<1.3	<0.9	
PATIENT	1.1	1.0	1.0	1.8	1.6	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 dimensions and function. No LV hypertrophy is appreciated, and the LA remains normal. The left ventricular chamber is mildly decreased in size, likely due to reported kidney disease. Finally, the aortic root is prominent, and a baseline blood pressure is strongly recommended. No obvious pathology is appreciated.

Given these findings, no correlation to current clinical issues is suspected. The patient does appear to be tolerating the fluid therapy relative well, based upon a lack of left atrial enlargement. Serial monitoring may be necessary if signs of intolerance develop.

Given these findings, no medications are indicated.

Anesthetic risk is considered mild. With this degree of remodeling and diastolic stiffening, there is an elevated risk for fluid overload in this patient and judicious IV fluid use is recommended. Heart

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

Dr. Miller

INVOICE

26893

DATE

10/13/22

IMAGING PERFORMED BY

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rate stimulating drugs such as atropine, glycopyrrolate or ketamine should be avoided unless medically necessary.

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PLAN

Baseline BP recommended. Monitor for signs of fluid intolerance going forward.

Recommend recheck echocardiogram in 6-12 months to screen for progression.

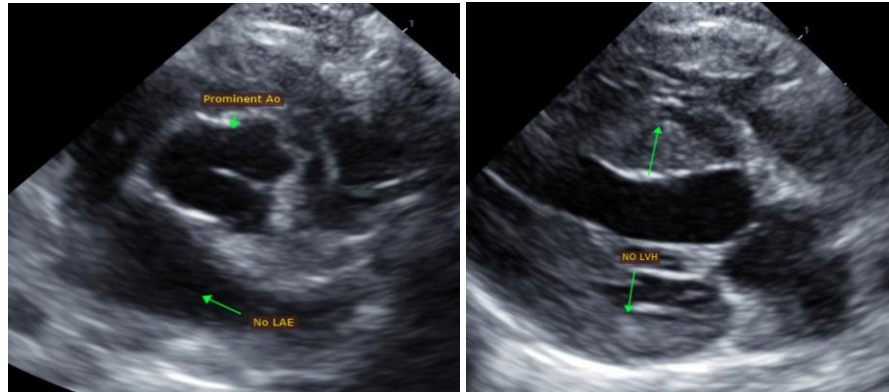
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

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.

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

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