



PATIENT

Merlin Sandoval

SPECIES

Feline

BREED

DSH

SEX

Male Neutered

AGE

13 years

WEIGHT

11.9lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Cole England, DVM

HOSPITAL NAME

Blue Cross Animal
Clinic

REFERRING VET

Dr. Pauly

INVOICE

47673

DATE

4/26/26

PRESENTING CLINICAL SIGNS

History: Recheck echo. Progressive, now grade 5/6 heart murmur. Assess prior to anesthesia.
-Pertinent previous echo findings (1/2025 MML): Focal septal thickening (0.64cm); remainder NSF.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is mildly remodeled with a mild focal basilar septal thickening. The free wall and the remainder of the septum measure normal. There is a mildly hyperechoic endocardium. The papillary muscles appear normal. The endocardium also appears mildly 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. No tricuspid regurgitation. Blood flow through both the LVOT and RVOT is normal in velocity. 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	5.4	NM	0.68	1.0	0.49	47	85
FELINE CARDIAC PARAMETERS	LA/AO <small>(Boon)</small>	LA/AO HEART BASE <small>(Swe) (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	1.1	1.2	1.2		0.7	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

Findings are similar to the prior evaluation. Focal septal hypertrophy persists; however, no progression is seen and the remainder of the LV measures normal. The LA is normal and no additional issues have developed.

Given these findings, no medications are indicated.

Monitor for any development of clinical signs, including labored breathing or signs of a blood clot (paralysis, neurologic change).

Anesthetic risk is considered mild, however judicious IV fluid rates are advised to avoid fluid overload. A reasonable protocol includes opioid/benzodiazepine premedication, propofol



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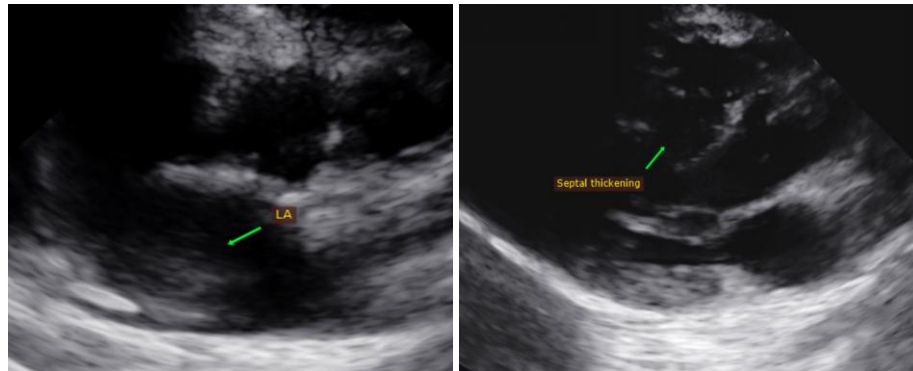
DATE

4/26/26

induction, and isoflurane maintenance. Additionally, steroids should be used with caution on older cats, as even a 'normal' geriatric heart can develop evidence of intolerance and fluid retention.

A recheck echocardiogram is recommended in 6-12 months to screen for any evidence of progression.

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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