



PATIENT

Lucy Ruickbie

SPECIES

Feline

BREED

DMH

SEX

Female Spayed

AGE

7 years

WEIGHT

10.8lbs

INTERPRETED BY

Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Crystal Hill, RVT

HOSPITAL NAME

Village Cat Clinic
 Ancaster

REFERRING VET

Dr. Throwe

INVOICE

45811

DATE

11/18/25

PRESENTING CLINICAL SIGNS

History: Grade III/VI systolic murmur. Irregular arrhythmia. HR 200-240bpm. No crackles or wheezes. History of heart murmur since kittenhood per owner. BP: 176mmHg.

ELECTROCARDIOGRAPHIC FINDINGS

A six lead ECG is available at 25mm/s; 10mm/mV. The average heart rate is 200bpm. The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P wave morphology is positive with a normal dimension. Normal PR. The QRS morphology is positive with normal dimension. MEA is normal. Rare VPCs; singles only. No VPCs, pauses or other dysrhythmias observed. ECG diagnosis: Normal sinus rhythm with rare, isolated VPCs.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is normal in dimension. There is a mildly hyperechoic endocardium consistent with age-related fibrosis. Mild remodeling. The papillary muscles are hyperechoic yet normal in size. 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 or SAM identified. The tricuspid valve appears normal in structure and mobility. No TR. Blood flow through both the LVOT and RVOT are normal in velocity. No AI/PI seen. 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	4.9	220	0.42	1.0	0.42	60	92
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	1.1	1.0		1.0	0.9	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

Overtly normal cardiac structure and function. The LV wall thickness is normal and there is no evidence of elevated left atrial pressure. There is mild remodeling and fibrosis of the left ventricular wall, which is likely a normal variant. Serial echocardiography will be necessary to determine progression. Additionally, no cause for the murmur is identified in this study, making it likely physiologic in origin (i.e., secondary to tachycardia, volume changes, etc.).

The ECG does show rare VPCs. VPCs can develop secondary to significant cardiac disease or fibrosis, or be extra-cardiac in origin (i.e., due to stress, pain, inflammation, systemic issues, etc.). Given what is seen here, structural issues are ruled out, and systemic evaluation may be



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warranted. Regardless, no therapy is typically warranted for arrhythmic cats with the exception of sustained tachyarrhythmias and simple follow up is recommended. Monitor for any signs of progressive arrhythmia, including significant lethargy or collapse/syncope.

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Anesthetic risk is considered moderate with ventricular arrhythmias, and drugs that stimulate heart rate should be avoided unless clinically necessary (glycopyrrolate, atropine). Avoid ketamine, telazol, alpha 2 agonists. A reasonable protocol includes opioid/benzodiazepine premedication, propofol induction, isoflurane maintenance. Monitor ECG intra and post-operatively, with careful intervention if ventricular arrhythmias are sustained (i.e., sustained VT) and lead to hemodynamic compromise.

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Recommend recheck echocardiogram in 1 year to assess for progression.

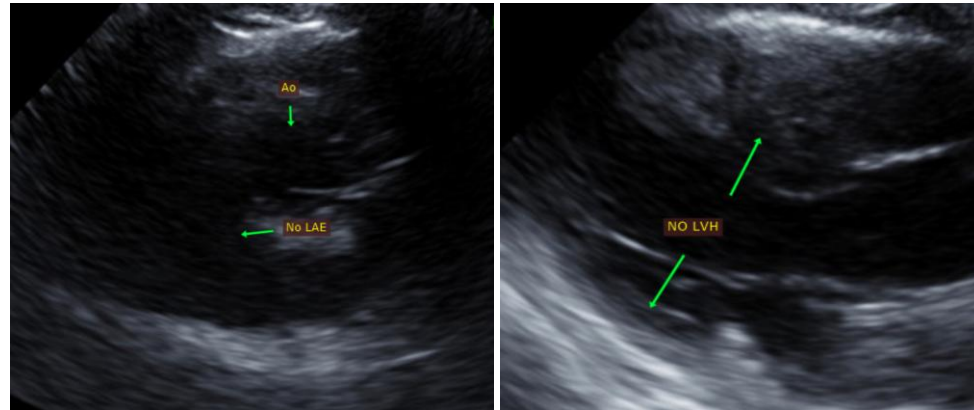
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

REFERRING VET

Dr. Throwe

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.

INVOICE

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 info@sonopath.com

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