

## PATIENT

Gingersnap Bemis

## SPECIES

Feline

## BREED

DMH

## SEX

Male Neutered

## AGE

2 years

## WEIGHT

NP

## INTERPRETED BY

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

## IMAGING PERFORMED BY

Dana Alterman,  
RDCS, LVT

## HOSPITAL NAME

Eubank Animal Clinic

## REFERRING VET

Dr. Nolan

## INVOICE

20377

## DATE

8/2/21

## PRESENTING CLINICAL SIGNS

History: Concern for asthma, cardiomegaly on CXR.

## ELECTROCARDIOGRAPHIC FINDINGS \*Note: Single lead ECGs are evaluated as a rhythm strip.

Morphology/MEA cannot be definitively commented on.

A single lead ECG is available; 25mm/s, 20mm/mV. The average heart rate is 120bpm with a regular rhythm. Low voltage complexes. P waves are difficult to identify due to small wave forms; however, a sinus origin is suspected. No ectopic beats, pauses or other dysrhythmias observed. ECG diagnosis: Suspect normal sinus rhythm.

## 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 fibrosis. The papillary muscles are normal. The endocardium also appears 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. Blood flow through both the LVOT and RVOT is normal in velocity. No pleural or pericardial effusion seen. No obvious cardiac tumors.

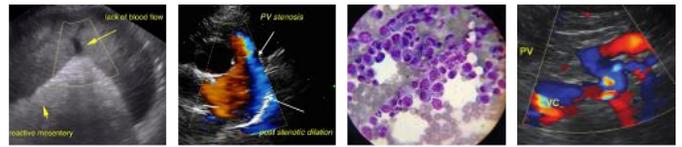
## CARDIAC CHART

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 (%)
<b>NORMAL PARAMETER</b>	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
<b>PATIENT</b>	NP	135	0.42	1.4	0.48	49	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>
<b>NORMAL</b>	<1.5	<1.3	<1.2		<1.6	<1.3	<0.9
<b>PATIENT</b>	1.4	1.2	1.27		0.8	0.77	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 &amp; 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

Overtly normal cardiac structure and function. The LV wall thickness is normal and there is no evidence of elevated left atrial pressure. There is remodeling and fibrosis of the left ventricular wall, which is likely a normal variant. Serial echocardiography will be necessary to determine progression.

These findings make cardiomegaly a normal variant. These films should be used as a baseline for future comparison. The ECG shows a suspect sinus rhythm with a relatively low heart rate. The rate on



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the echocardiogram is slightly increased which would suggest a sinus origin. If there is any question on persistent bradycardia, consider an exercise/stress challenge and/or six-lead tracing.

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Feline

Given these findings, no medications are indicated.

**BREED**

DMH

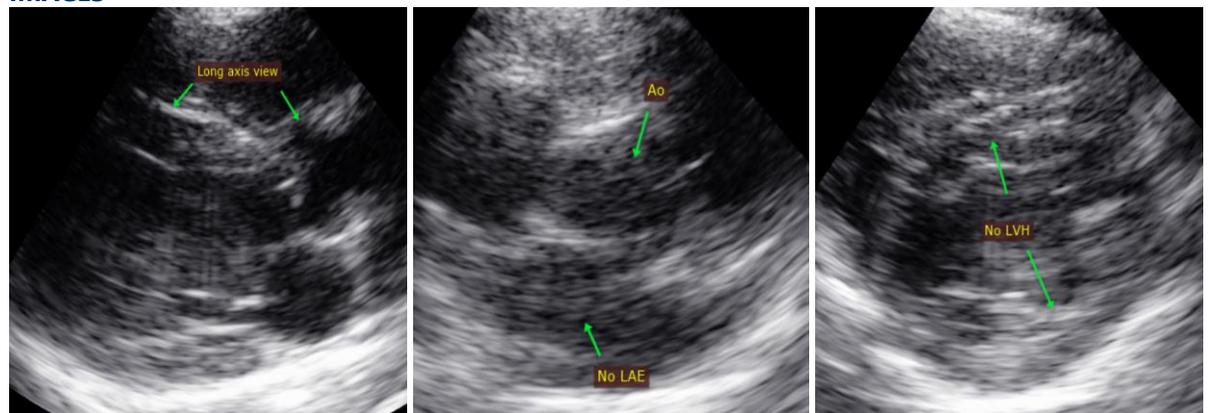
No cardiac contraindication for general anesthesia. Mild IV fluid restriction is advised.

Recommend recheck echocardiogram in 1 year to ensure no progressive issues are seen.

**SEX**

Male Neutered

**IMAGES**

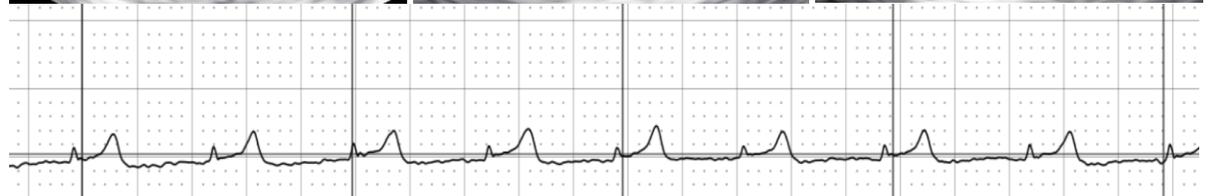


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2 years

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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.**

**IMAGING PERFORMED BY**

Dana Alterman,  
RDCS, LVT

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.

**HOSPITAL NAME**

Eubank Animal Clinic

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

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