


**PATIENT**

Benito Arevalo

**PRESENTING CLINICAL SIGNS**

History: Grade 3/6 pansystolic bilateral heart murmur with PMI on left mid-heart identified on pre-surgical exam for neuter surgery. Surgery postponed until ultrasound results obtained. No meds currently.

**SPECIES**

Feline

**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. The papillary muscles are mildly remodeled and hyperechoic. 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 obvious congenital defects. No pleural or pericardial effusion seen. No obvious cardiac tumors.

**BREED**

Ragdoll

**SEX**

Male Intact

**CARDIAC CHART**
**AGE**

11 months

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 (%)
<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>	4.2	186	0.37	1.3	0.43	58	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)
<b>NORMAL</b>	<1.5	<1.3	<1.2		<1.6	<1.3	<0.9
<b>PATIENT</b>	NM	1.0	0.9		0.8	0.7	NM

**WEIGHT**

9.3lbs

**INTERPRETED BY**

 Maggie Machen Lamy,  
 DVM DACVIM  
 (Cardiology)

*\*Note: All measurements based upon multi-modal images and methods. An average value is reported.*

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.

**IMAGING PERFORMED BY**

Crystal Hill, RVT

**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. 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.) potentially masked by sedation. That being said, it is important to note that small abnormalities are easily missed, particularly in juvenile patient. If the murmur persists or progresses as the kitten ages, referral to a local Cardiologist for advanced imaging would be reasonable.

Given these findings, no medications are indicated.

**HOSPITAL NAME**

 Tillsonbrug Vet  
 Services

No cardiac contraindication for general anesthesia.

**REFERRING VET**

Dr. Reed

**INVOICE**

22787

**DATE**

2/23/22

Assuming the murmur persists, consider referral as discussed. If declined, recheck echocardiogram in 6-12 months to reassess murmur origin.



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Tillsonbrug Vet  
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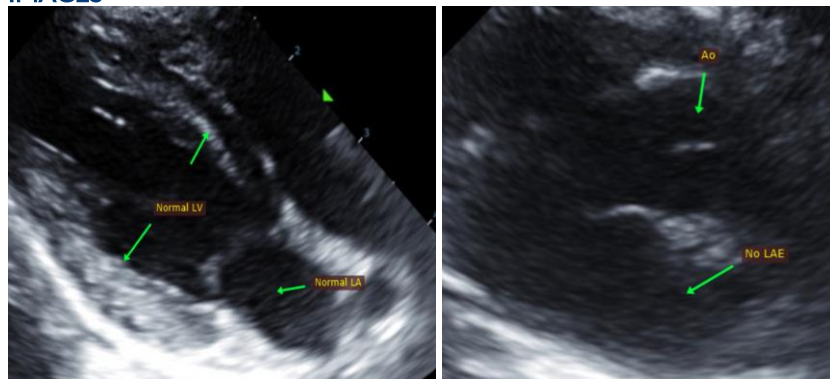
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**IMAGES**



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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