

IMAGING PERFORMED BY

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**PATIENT**

Shadow Centeno

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Male Neutered

**AGE**

8.9.02

**WEIGHT**

11.2lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

Stephanie Pearce,  
RDCS, RVT

**HOSPITAL NAME**

Mt. Airy Animal  
Hospital

**REFERRING VET**

Dr. Riley

**INVOICE**

22617

**DATE**

2.16.22

**PRESENTING CLINICAL SIGNS**

History: Hacking and wheezing.

-Current medications: Convenia 0.5 ml sq given 02/08/22, depomedrol 0.5 ml sq given 02/08/2022, 1/2-tab Pepcid sid, 2 droppers of infant gas-x bid.

-Sedation used: Not required to complete full diagnostic ultrasound.

-Pertinent previous ultrasound results: No previous IntraPet scans.

-STAT: Not requested

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is irregular although no obvious hypertrophy is identified. There is a diffusely hyperechoic endocardium. Mild remodeling. The papillary muscles are 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. No MR. The tricuspid valve appears normal in structure and mobility. Trace TR. Blood flow through both the LVOT and RVOT are normal in velocity. No effusions. No obvious cardiac tumors.

**CARDIAC CHART**

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) (Moise, Pipers)	LVIDd (cm) (Moise, Pipers)	LWVd (cm) (Moise, Pipers)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	3.5-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	5.1	220	0.4	1.45	0.41	68	96
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	1.3	1.28		1.2	1.4	NM

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

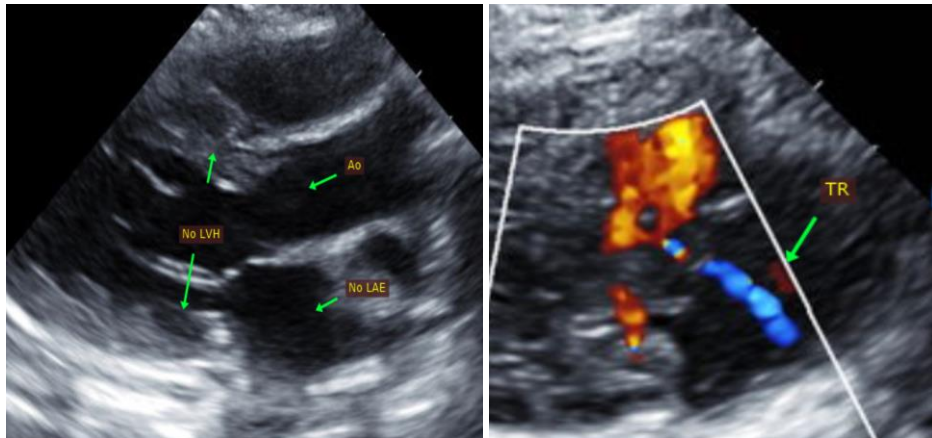
Overtly normal cardiac structure and function with no evidence of significant LVH or atrial dilation. There is remodeling and fibrosis of the left ventricular wall, which is likely a normal variant. Monitoring is advised, particularly if symptoms or PE is suggestive of heart disease in the future (murmur, gallop, etc.).

Given today's findings, the reported cough/wheeze is non-cardiac in origin. Consider a full respiratory workup to further investigate primary respiratory causes (asthma, infectious, inflammatory, etc.). A course of azithromycin is often beneficial. No contra-indication to steroid or fluid therapy from a cardiac standpoint should it be indicated; however, use of both in cats should be limited and closely monitored.

No cardiac medications are indicated.

A recheck echocardiogram is recommended should a murmur, gallop, BNP elevation or clinical signs of cardiac disease develop in the future.

### 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**  
**Diplomate of the American College of Veterinary Internal Medicine (Cardiology)**  
**info@sonopath.com**