

**PATIENT**

Pearl Atwood

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Female Intact

**AGE**

1.5 years

**WEIGHT**

8.6lbs

**INTERPRETED BY**

Maggie Machen  
 Lamy, DVM, DACVIM  
 (Cardiology)

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

Aumsville Animal  
 Clinic

**REFERRING VET**

Dr. Rowland

**INVOICE**

22748

**DATE**

2/22/22

**PRESENTING CLINICAL SIGNS**

History: Grade 4/6 heart murmur. Azotemia history. Creat -2.3 BUN/Urea - 36 increased since August.

**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; 50mm/s, 20mm/mV. The average heart rate is 200bpm with a largely regular rhythm. The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P and QRS morphologies are positive. No ectopic beats, pauses or dysrhythmias observed.

ECG diagnosis: Normal sinus rhythm with respiratory variation.

**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 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 seen. Trace/mild TR. Normal velocity. Blood flow through the LVOT is normal in velocity. Blood flow through the RVOT is mildly elevated and dynamic in appearance, consistent with DRVOTO. No obvious congenital defects/shunts. No effusions.

**CARDIAC CHART**

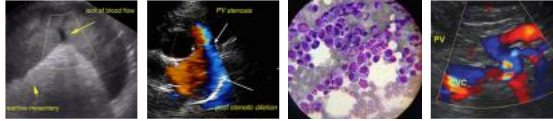
FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) (Moise, Pipers)	LVIDd (cm) (Moise, Pipers)	LVWd (cm) (Moise, Pipers)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	3.9	230	0.4	1.5	0.4	64	94
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO 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	1.3	1.2	1.1	0.97	1.3	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. Elevated flow velocity is noted through the RVOT and MPA, which is considered physiologic. This is common in cats due to tachycardia and volume changes (likely due to azotemia). No obvious congenital or age-related abnormalities are identified at this time. The ECG is unremarkable with a normal sinus tachycardia.

Given these findings, no medications are indicated. Presence of a physiologic murmur may mask development of pathology going forward and periodic reassessment is advised.



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Monitor at home for any respiratory signs or blood clot events (neurologic change, paralysis, etc.).

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No cardiac contraindication for general anesthesia.

Recommend recheck echocardiogram in 1 year, sooner if clinical signs arise.

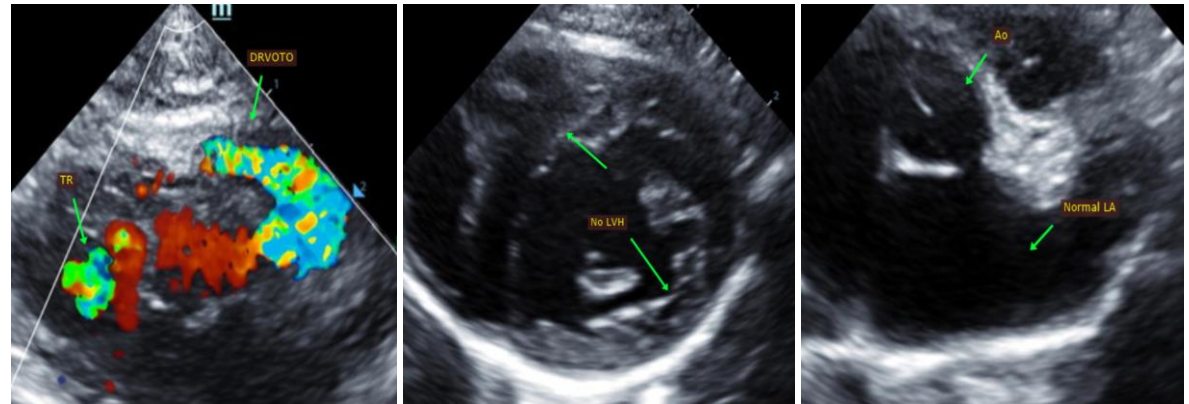
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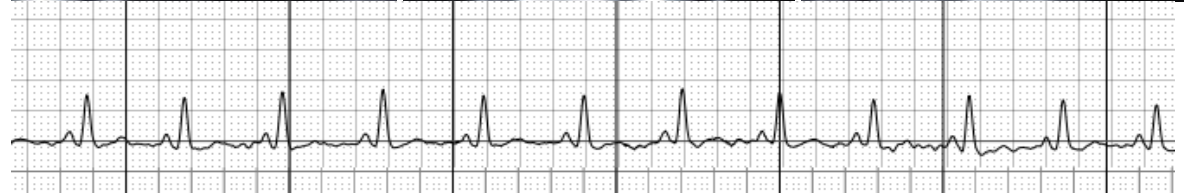


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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**IMAGING PERFORMED BY**

Sara Hansen

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**

Aumsville Animal Clinic

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

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