

**PATIENT**

Heineken Rowland

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Neutered Male

**AGE**

3 Years 3 Months

**WEIGHT**

11 Pounds

**INTERPRETED BY**

Sara Brethel, DVM,  
 DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Kathleen Byrnes

**HOSPITAL NAME**

Pet Care Clinic of the  
 High Country

**REFERRING VET**

Dr. Russell

**INVOICE**

36501

**DATE**

4/8/26

**PRESENTING CLINICAL SIGNS**

History: P went to the ER for vomiting. Rad report mild/mod cardiomegaly  
 Heart murmur.

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
<b>NORMAL PARAMETER</b>	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
<b>PATIENT</b>	5.0	220	0.54	1.57	0.43	--	--
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
<b>NORMAL PARAMETER</b>	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
<b>PATIENT</b>	--	1.51	1.5		0.91	1.14	NM
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

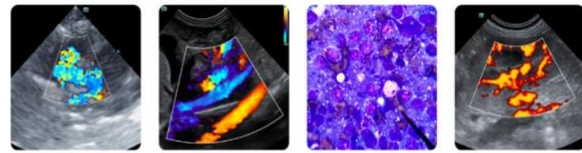
MR Vmax: 7.57, TR Vmax: 2.43

**Cardiac Presentation**

The mitral valve leaflets are normal and there is mild mitral regurgitation. There is no prolapse of the mitral valve leaflets. The left atrial size is at the upper limits of normal to mildly increased. Left ventricular systolic function appears preserved. Left ventricular diastolic dimensions are within normal limits. There is evidence of systolic anterior motion of the mitral valve and there is no step-up in velocities throughout the left ventricular outflow tract with the images provided. There is evidence of a kissing lesion at the level of SAM, and the left ventricular myocardium appears hyperechoic in some regions. Left ventricular walls measure equivocally hypertrophied. There is normal right atrial size without evidence of tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension on the images provided. The right ventricle appears normal in structure and function subjectively. The aortic and pulmonic valves have normal morphology and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

**ULTRASONOGRAPHIC FINDINGS**

- Mitral regurgitation
- Left atrial size upper limits of normal to mildly increased
- Equivocal left ventricular concentric hypertrophy



**PATIENT**

- Systolic anterior motion of the mitral valve

Heineken Rowland

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**SPECIES**

The patient's left atrium is at the upper limits of normal to mildly increased. No cardiac therapies are recommended at this time. There is mitral regurgitation. This likely represents an emerging phenotype of hypertrophic obstructive cardiomyopathy, however, the left ventricular walls do not measure hypertrophied on today's evaluation. No cardiac therapies are indicated at this time, but a recheck echo is recommended in 6 months. Recommend ensuring the patient is also euthyroid and normotensive. Additionally, given the patient's age, if there is an increased suspicion for an infectious component (i.e., if the patient goes outside, has outdoor access, is not up to date on preventatives) can consider performing feline infectious disease testing to ensure there isn't a component of transient myocardial thickening.

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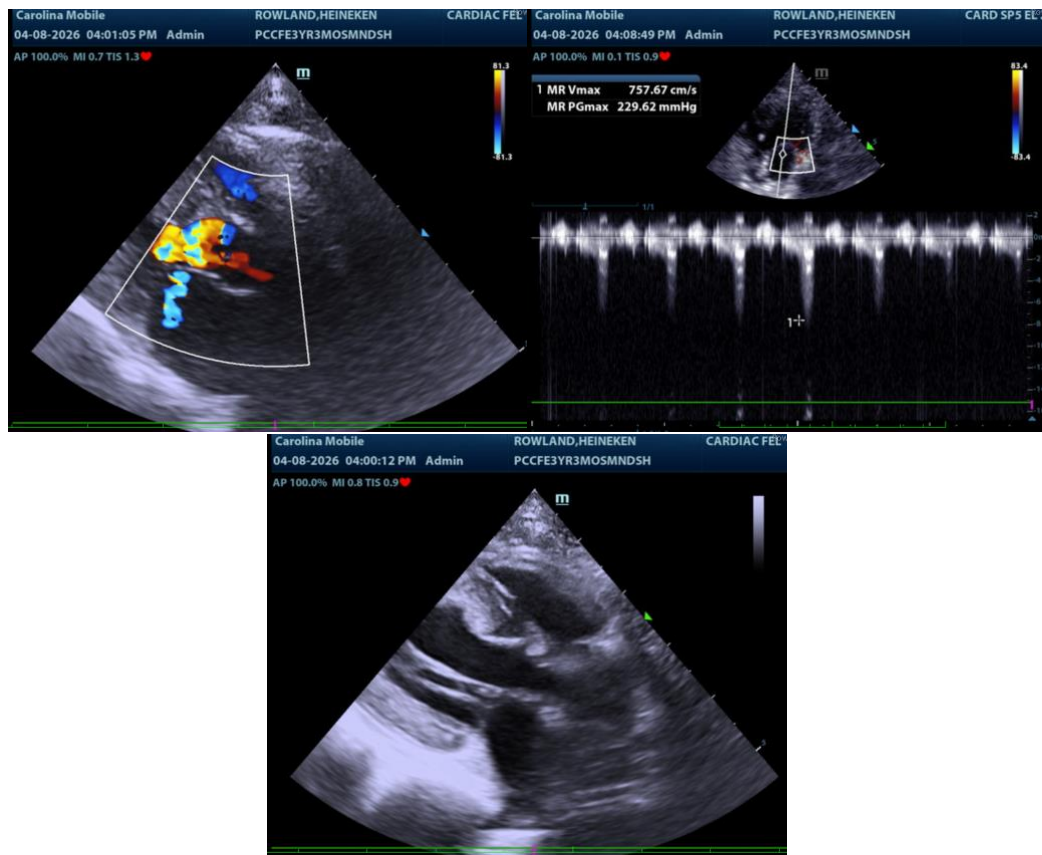
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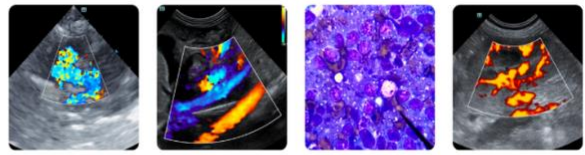
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**The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.



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[info@SonoPath.com](mailto:info@SonoPath.com)

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