

**PATIENT**

Toby Donkin

**PRESENTING CLINICAL SIGNS**

Grade 2 murmur detected during pre-dental exam. O reports no signs of heart dz

**SPECIES**

Feline

**BREED**

Singapura

**SEX**

Neutered Male

**AGE**

6 Years

**WEIGHT**

7.9 Pounds

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LWVd (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>	3.59	220	0.35	1.3	0.51	--	--
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>	NM	1.16	NM		~1.0	~1.0	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

**INTERPRETED BY**

Sara Brethel, DVM,  
DACVIM (Cardiology)

**Cardiac Presentation**

The mitral valve leaflets are normal and there is no mitral regurgitation. The left atrial size is normal. There is no evidence of systolic anterior motion of the mitral valve and no evidence of a left ventricular outflow tract obstruction. Left ventricular systolic and diastolic function is within normal limits. There is no evidence of left ventricular concentric hypertrophy, however, the posterior wall measures within a grey zone. 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.

**IMAGING PERFORMED BY**

Kerri Becker

**HOSPITAL NAME**

Animal General on Hudson

**REFERRING VET**

Dr. Lang

**ULTRASONOGRAPHIC FINDINGS**

- Posterior wall measures at the upper limits of normal, however, it does fall within a grey zone. Serial monitoring is recommended.

**INVOICE**

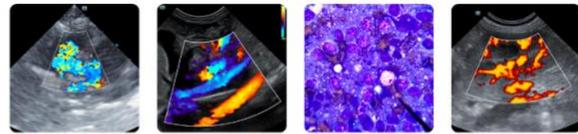
36455

**DATE**

3/30/26

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The patient's posterior wall, while normal, is > 5.0 mm, therefore falling in a grey zone. Serial monitoring is recommended. Recommend ensuring the patient is normotensive and euthyroid. Elective anesthetic procedures should be well tolerated; however, I would encourage avoiding alpha 2 agonists like dexmedetomidine and ketamine. Standard perioperative fluid rates should be tolerated. A recheck



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echo is recommended in 10-12 months.

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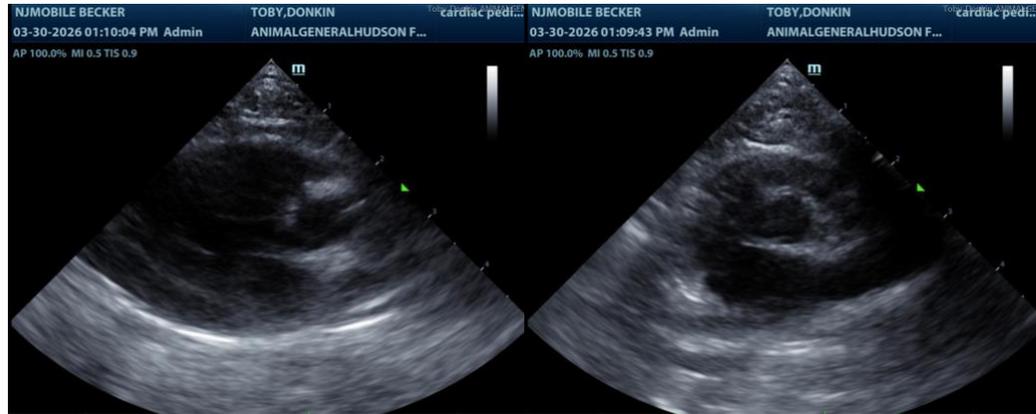
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Sara Brethel DVM, DACVIM (Cardiology)

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