

**PATIENT**

Tac Beals

**SPECIES**

Canine

**BREED**

Shih Tzu

**SEX**

Male Neutered

**AGE**

7 years

**WEIGHT**

13.56lbs

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Pamela Harrigan,  
RDMS

**HOSPITAL NAME**

Mass Veterinary Services

**REFERRING VET**

Dr. Masloski

**INVOICE**

30204

**DATE**

4/12/23

**PRESENTING CLINICAL SIGNS**

History: Recheck echo. History chronic valvular disease - Stage B2. Presently, Tac is doing well at home - no respiratory issues or exercise intolerance. Good appetite. On exam: grade IV/VI systolic murmur; normal lung fields. BP: 180mmHg x 5. Current medications: Pimobendan 7.5mg, 1/3-tab SID; Enalapril 2.5mg, 1.5 tabs BID; Apoquel 3.6mg, 1/2-tab SID. \*Sedated with propofol for study.

-Pertinent previous echo findings ( 6/8/22 MML): LA 2.8 cm; LA:Ao 1.6; LV 2.8 cm; moderate LAE, mild LVE, moderate MR, mild TR (2.0 m/s).

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and Doppler imaging is available.

**Left ventricle:** The LV diameter is normal with hyperdynamic function. LV wall thicknesses are normal.

**Left atrium:** The left atrium is mildly dilated.

**Mitral valve:** The mitral valve is diffusely thickened with no prolapse into the left atrial lumen. Moderate anterior-directed mitral regurgitation with a normal velocity.

**Aortic valve/Aorta:** The aortic valve is normal in morphology and mobility. Normal aortic outflow velocity; laminar flow. No aortic insufficiency.

**Right ventricle:** Normal right ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension.

**Right atrium:** Normal RA dimension.

**Tricuspid valve:** The tricuspid valve appears mildly thickened with mild tricuspid regurgitation. Normal velocity.

**Pulmonic valve/Pulmonary artery:** The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency. Normal RVOT velocity; laminar flow.

**Pericardium/other:** No pericardial or pleural effusion noted. No obvious cardiac masses.

**Heart rhythm:** ECG reveals a sinus rhythm with an average HR of 150bpm.

**2-Dimensional Measurements**

Ao diam (cm)	1.5
LA diam (cm)	2.2
LA:Ao (Swe)	1.46
IVS thickness (cm)	0.6
LVID diastole (cm)	2.7
PW thickness (cm)	0.6
LVID systole (cm)	1.5
FS (%)	44

**Doppler Measurements**

PV Vmax (m/s)	0.73
AoV Vmax (m/s)	0.71
MR Vmax (m/s)	4.9
TR Vmax (m/s)	2.1
TR PG (mmHg)	17

**INTERPRETATION OF THE FINDINGS**

Compared to the prior study, there is continued evidence of improvement. The left heart dimensions have decreased comparatively, which is unusual to see. No additional issues, such as pulmonary hypertension have developed.

Given these findings, reasonable to continue Pimobendan and Enalapril as prescribed.

Generally speaking, BID dosing is recommended for Pimobendan and should be considered. Assessment of progression in the future will help predict long term outcome; however, prognosis is guarded at this stage (B1/B2).



**PATIENT**

Tac Beals

**SPECIES**

Canine

**BREED**

Shih Tzu

**SEX**

Male Neutered

**AGE**

7 years

**WEIGHT**

13.56lbs

**INTERPRETED BY**

Maggie Machen Lamy, DVM  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Pamela Harrigan, RDCS

**HOSPITAL NAME**

Mass Veterinary Services

**REFERRING VET**

Dr. Masloski

**INVOICE**

30204

**DATE**

4/12/23

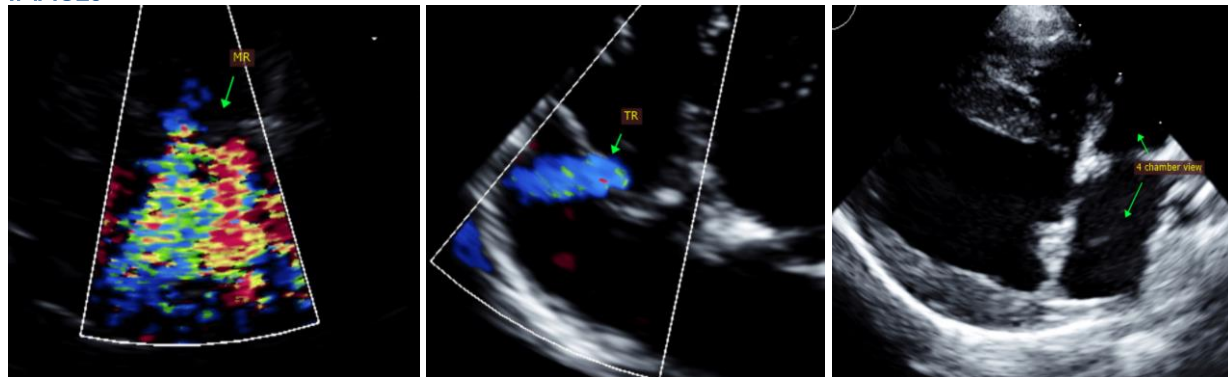
**RECOMMENDATIONS**

- Continue Pimobendan at BID dosing.
- Continue Enalapril as prescribed.
- Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit.
- Anesthetic risk is considered mild if needed. Cardiac protective drug choices (opioid/benzodiazepine premedication, propofol or alfaxalone induction, isoflurane gas) are recommended. Pre-oxygenate for 5-10 minutes prior to induction. Monitor for arrhythmias, hypotension, and hypoxia both intra and post-operatively and intervene as necessary. Mild IV fluid restriction is recommended to avoid fluid overload. Avoid heart rate stimulating drugs such as atropine unless clinically indicated.
- Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

**PLAN**

- Recommend conservative monitoring with a recheck echocardiogram in 6-12 months, sooner if any development of clinical signs.

**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

Echocardiogram performed by: Pamela Harrigan, RDCS  
Pet Animal Ultrasound Service (4paus.com)