

PATIENT

Bungee Brown

SPECIES

Canine

BREED

Australian Shepherd

SEX

Male Neutered

AGE

6 years

WEIGHT

47lbs

INTERPRETED BY

Maggie Machen Lamy, DVM DACVIM (Cardiology)

IMAGING PERFORMED BY

Eduardo Rodrigues III, RCS

HOSPITAL NAME

Mass Veterinary Services

REFERRING VET

Dr. Masloski

INVOICE

31333

DATE

6/14/23

PRESENTING CLINICAL SIGNS

History: Recheck echo. History LV systolic dysfunction with improvement to normal in previous echocardiograms. Bungee is doing well with good appetite and normal activity level. On exam: NSR, no murmurs noted, PSS, lung fields clear. BP: 220mmHg x 2 (extremely stressed, prior to sedation with propofol). Current medications: Pimobendan 5 mg BID, Taurine 1000mg BID, Cosequin SID. -Pertinent previous echo measurements (6/14/22 MML): LA 2.5 cm; LA:Ao 1.2; LV 3.3;OF 33%.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and Doppler imaging is available. **Left ventricle:** The LV diameter is normal with adequate systolic function. LV wall thicknesses are normal. **Left atrium:** The left atrium is normal. **Mitral valve:** The mitral valve is normal with no prolapse into the left atrial lumen. Trace central mitral regurgitation. **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 normal with trace tricuspid regurgitation. **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 140bpm.

2-Dimensional Measurements

| | |
|--------------------|-----|
| Ao diam (cm) | 2.2 |
| LA diam (cm) | 2.5 |
| LA:Ao (Swe) | 1.1 |
| IVS thickness (cm) | 1.0 |
| LVID diastole (cm) | 3.0 |
| PW thickness (cm) | 1.0 |
| LVID systole (cm) | 2.0 |
| FS (%) | 33 |

Doppler Measurements

| | |
|----------------|-----|
| PV Vmax (m/s) | 0.7 |
| AoV Vmax (m/s) | 1.0 |
| MR Vmax (m/s) | NM |
| TR Vmax (m/s) | NM |
| TR PG (mmHg) | NA |

INTERPRETATION OF THE FINDINGS

Compared to the prior study, findings are similar. Normal 4 chamber dimensions persist with adequate systolic function. No additional issues are noted.

Given these findings, continue Pimobendan as prescribed. Prognosis is guarded long-term. Patient will always be at risk for progression to CHF, development of arrhythmias and/or sudden death in the future.



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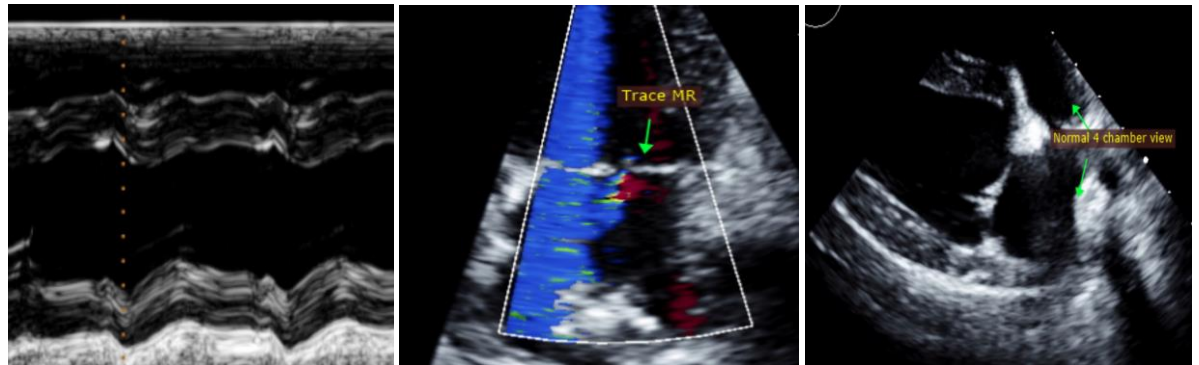
RECOMMENDATIONS

- Continue Pimobendan and Taurine as previously prescribed.
- 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

- A recheck echocardiogram is recommended annually, sooner if signs of clinical signs arise.

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.

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Echocardiogram performed by:

Eduardo Rodrigues III, RCS
Pet Animal Ultrasound Service (4paus.com)