



PATIENT

Katie Roberts

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Female Spayed

AGE

11 years

WEIGHT

14lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING PERFORMED BY

Pamela Harrigan,
RDCS

HOSPITAL NAME

Mass Veterinary Services

REFERRING VET

Dr. Masloski

INVOICE

23480

DATE

4/6/22

PRESENTING CLINICAL SIGNS

History: Recheck echo. History chronic valvular disease - Stage B2. Current presentation: Katie coughs after drinking water. Eating well with normal activity. On exam: NSR, grade III/VI murmur with PMI left apical area, PSS, lung fields clear. BP: 120 mmHg x 5. Medications: 1) Pimobendan/vetmedin 3.75mg 1/2 tab twice a day 2) Enalapril 2.5mg 1 tab daily *No sedation for study.
-Pertinent previous echo findings (10/12/21 MML): LA 2.6 cm; LA:Ao 1.6; LV 3.1 cm; moderate LAE; moderate MR; trace TR (2.9 m/s; 34 mmHg); early PAH.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and Doppler imaging is available.
Left ventricle: The LV diameter is mildly increased with adequate function. LV wall thicknesses are normal.
Left atrium: The left atrium is borderline moderately dilated.
Mitral valve: The mitral valve is diffusely thickened with moderate prolapse into the left atrial lumen. Moderate eccentric 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 normal with trace tricuspid regurgitation. Velocity consistent with borderline pulmonary hypertension.
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 80bpm.

2-Dimensional Measurements

Ao diam (cm)	1.6
LA diam (cm)	2.6
LA:Ao (Swe)	1.6
IVS thickness (cm)	0.6
LVID diastole (cm)	2.8
PW thickness (cm)	0.6
LVID systole (cm)	1.7
FS (%)	39

Doppler Measurements

PV Vmax (m/s)	0.74
AoV Vmax (m/s)	1.4
MR Vmax (m/s)	5.8
TR Vmax (m/s)	2.7
TR PG (mmHg)	30

INTERPRETATION OF THE FINDINGS

Chronic degenerative valve disease persists with evidence of stability. Moderate mitral and trace tricuspid regurgitation are unchanged. The left heart dimensions are similar to previous without obvious progression. Finally, pulmonary pressures are borderline and stable. No additional issues are identified.

Given these findings, continue medications as previously recommended. Continued assessment of progression in the future will help predict long term outcome, however prognosis is guarded at this stage (B2).



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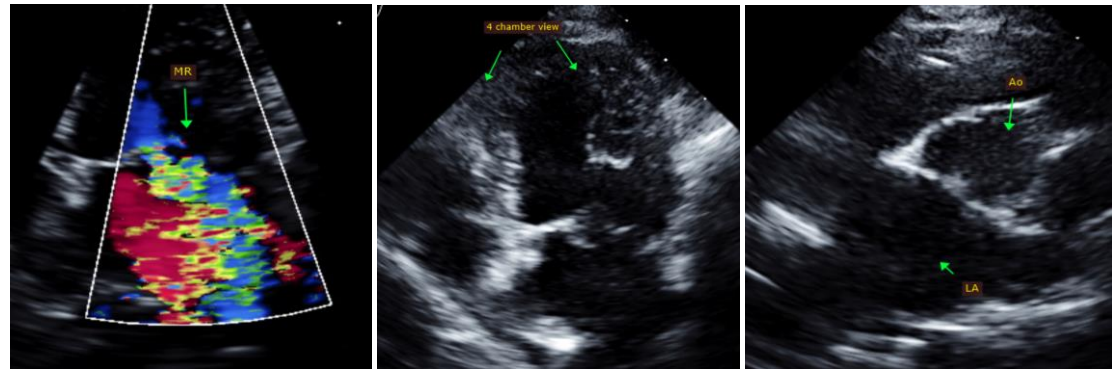
RECOMMENDATIONS

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