



PATIENT

Lucy Pavao

SPECIES

Canine

BREED

Beagle

SEX

Female Spayed

AGE

7 years

WEIGHT

27.8lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING PERFORMED BY

Pamela Harrigan,
RDCS

HOSPITAL NAME

Anchor Animal
Hospital

REFERRING VET

Dr. Pietsch

INVOICE

22626

DATE

2/17/22

PRESENTING CLINICAL SIGNS

History: Grade III/VI systolic murmur. Has been treated with Pimobendan 2.5mg q12h; and Enalapril 5mg q12h (previous echo, no measurements available). Currently doing well with no clinical concerns. Good appetite and energy; no respiratory issues. ProBNP 1192 (Jan 2021) 575 (Aug 2021). 180-200mmHg. BP: 160-170mmHg

ECHOCARDIOGRAM FINDINGS

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

Left ventricle: The LV diameter is borderline increased with adequate function. LV wall thicknesses are normal.

Left atrium: The left atrium is moderately dilated.

Mitral valve: The mitral valve is diffusely thickened with mild prolapse into the left atrial lumen. Moderate to severe 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 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 140bpm.

2-Dimensional Measurements

Ao diam (cm)	1.6
LA diam (cm)	3.2
LA:Ao (Swe)	1.75
IVS thickness (cm)	0.9
LVID diastole (cm)	3.2
PW thickness (cm)	0.9
LVID systole (cm)	1.6
FS (%)	50

Doppler Measurements

PV Vmax (m/s)	1.2
AoV Vmax (m/s)	1.6
MR Vmax (m/s)	6.0
TR Vmax (m/s)	2.3
TR PG (mmHg)	22

INTERPRETATION OF THE FINDINGS

Chronic degenerative valve disease causing moderate to severe mitral and mild tricuspid regurgitation. Moderate left atrial enlargement indicates there is relatively low risk for imminent complication, however risk for progression to spontaneous congestive heart failure in the future is elevated. No additional issues are identified.

Given these findings, continue Pimobendan as prescribed. Additionally, given reported blood pressure, Enalapril is reasonable as well. Assessment of progression in the future will help predict long term outcome, however prognosis is guarded at this stage (B2).



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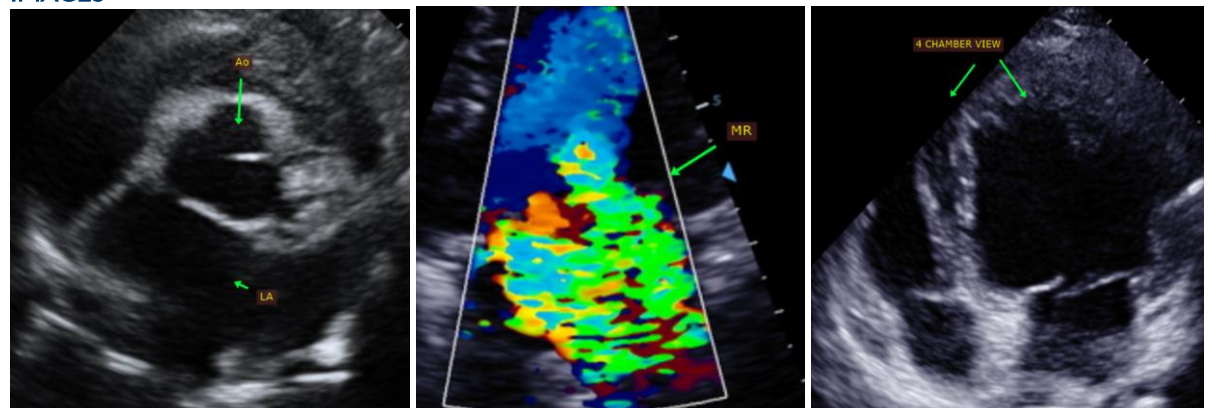
RECOMMENDATIONS

- 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.

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