



PATIENT

Ali Orszulak

SPECIES

Canine

BREED

Jack Russell Terrier

SEX

Female Spayed

AGE

13 years

WEIGHT

12lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING PERFORMED BY

Pamela Harrigan,
RDCS

HOSPITAL NAME

VCA Palmer

REFERRING VET

Dr. Haroules

INVOICE

29699

DATE

3/20/23

PRESENTING CLINICAL SIGNS

History: Recheck echo. History chronic valvular disease- Stage B1. Mild cough x 1 year. Two weeks ago, had collapse episode after barking. Fell over, no urination, recovered quickly. Grade V/VI heart murmur, lungs clear. BP: average 197mmHg.
-Pertinent previous echo findings (8/21/20 Tai Casagrande, DVM, DACVIM-C: LA 2.22 cm, LA:Ao 1.49, LV 2.47 cm. LA upper normal limit, moderate MR, no TR.

ECHOCARDIOGRAM FINDINGS

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

Left ventricle: The LV diameter is borderline increased with hyperdynamic 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 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) | 1.4 |
| LA diam (cm) | 2.6 |
| LA:Ao (Swe) | 1.8 |
| IVS thickness (cm) | 0.8 |
| LVID diastole (cm) | 2.9 |
| PW thickness (cm) | 0.8 |
| LVID systole (cm) | 1.0 |
| FS (%) | 71 |

Doppler Measurements

| | |
|----------------|------|
| PV Vmax (m/s) | 0.86 |
| AoV Vmax (m/s) | 1.4 |
| MR Vmax (m/s) | 5.7 |
| TR Vmax (m/s) | 2.5 |
| TR PG (mmHg) | 25 |

INTERPRETATION OF THE FINDINGS

Chronic degenerative valve disease causing moderate 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. Compared to the prior study, there is evidence of progression from mild to moderate disease.

Given LA dilation, Pimobendan is recommended as below. Assessment of progression in the future will help predict long term outcome, however prognosis is guarded at this stage (B2).



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Syncope associated with barking is likely vaso-vagal in origin. Further evaluation may be warranted if the episodes recur in the future.

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The reported blood pressure is elevated, and should be reassessed for accuracy particularly given no reported clinical signs of severe hypertension (retinal changes, etc.) or evidence of LVH on echo. Ideally obtain serial measurements in a controlled, low stress environment and continue until 3 consecutive readings plateau within 5mmHg of variability. If persistently >180mmHg despite a relatively calm demeanor, recommend institution of amlodipine to effect. Additionally if deemed accurate, screening for predisposing underlying causes of SHT is recommended (Crushing's, PLN, adrenal tumor, etc.), as primary disease is relatively uncommon and a rule out diagnosis.

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RECOMMENDATIONS

- Institute heart muscle support Pimobendan 0.3mg/kg PO q12h.
- Reassess BP as discussed and treat if indicated.
- If collapse episodes recur in the future (particularly independent of a bark or cough), further evaluation is recommended such as a holter monitor, BP assessment, CXR, etc.
- Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit.
- Once on Pimobendan for 3-5 days, 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.

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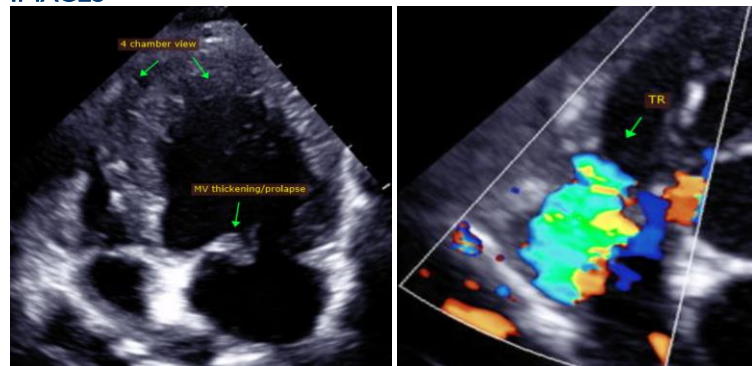
PLAN

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

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IMAGES



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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.

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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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Jack Russell Terrier

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

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Female Spayed

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

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