



PATIENT

Zeke Kubik

SPECIES

Canine

BREED

Jack Russell Terrier

SEX

Male Neutered

AGE

11 years

WEIGHT

13.8lbs

PRESENTING CLINICAL SIGNS

History: Grade IV/VI systolic murmur. Occasional cough. Systemic hypertension, treated with Benazepril 5mg, 1/2-tab SID. BP today: 222, 220mmHg.

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 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 to moderate 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.

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING

PERFORMED BY

Eduardo Rodriguez
III, RCS

HOSPITAL NAME

Pine Banks Animal
Hospital

REFERRING VET

Dr. Emara

INVOICE

30636

DATE

5/5/23

2-Dimensional Measurements

Ao diam (cm)	1.5
LA diam (cm)	2.6
LA:Ao (Swe)	1.8
IVS thickness (cm)	0.7
LVID diastole (cm)	2.8
PW thickness (cm)	0.7
LVID systole (cm)	1.7
FS (%)	40

Doppler Measurements

PV Vmax (m/s)	0.8
AoV Vmax (m/s)	1.8
MR Vmax (m/s)	5.0
TR Vmax (m/s)	2.6
TR PG (mmHg)	27

INTERPRETATION OF THE FINDINGS

Chronic degenerative valve disease causing moderate mitral and 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 LA dilation, Pimobendan is recommended as below. Additional vasodilator therapy may also be warranted depending on chronic readings. Consider a dose increase in ACE-I +/- addition of Amlodipine. Further evaluation for underlying causes should also be considered. Consultation with an IM Specialist is recommended.

Assessment of progression in the future will help predict long term outcome, however prognosis is guarded at this stage (B2).



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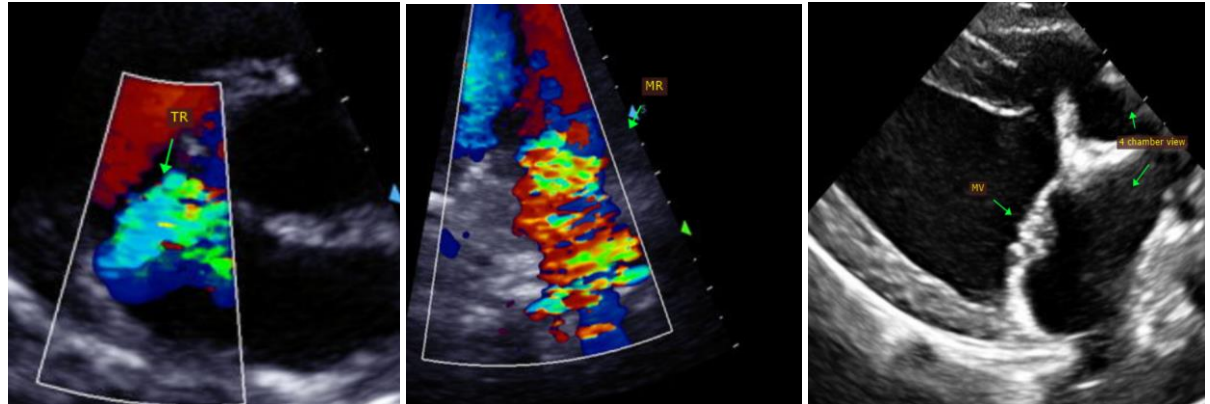
RECOMMENDATIONS

- Institute heart muscle support Pimobendan 0.3mg/kg PO q12h.
- Increase to Benazepril to BID dosing.
- Consider further vasodilator therapy depending on response. IM consultation if needed.
- 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.

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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 info@sonopath.com

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