



PATIENT

Flicka Bower

SPECIES

Canine

BREED

Papillon

SEX

Female Spayed

AGE

12 years

WEIGHT

13lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING PERFORMED BY

Pamela Harrigan,
RDMS

HOSPITAL NAME

Chase Veterinary
Clinic

REFERRING VET

Dr. Caffarella

INVOICE

25605

DATE

8/8/22

PRESENTING CLINICAL SIGNS

History: Presented for progressive coughing. Grade IV/VI systolic murmur noted on exam. ProBNP 994. Started Pimobendan 1.25mg BID and Hydrocodone 5mg, 1/2-tab BID as needed. Seen subsequently for increased wheezing. Lasix started - 12.5mg BID. Radiographs: cardiomegaly; narrow cervical trachea. BP: 130mmHg x 4.

ECHOCARDIOGRAM FINDINGS

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

Left ventricle: The LV diameter is mildly 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 significant 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 septal prolapse and 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 170bpm.

2-Dimensional Measurements

Ao diam (cm)	1.3
LA diam (cm)	2.4
LA:Ao (Swe)	1.8
IVS thickness (cm)	0.7
LVID diastole (cm)	2.7
PW thickness (cm)	0.7
LVID systole (cm)	0.8
FS (%)	70

Doppler Measurements

PV Vmax (m/s)	0.87
AoV Vmax (m/s)	1.1
MR Vmax (m/s)	4.7
TR Vmax (m/s)	2.7
TR PG (mmHg)	30

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.

Given these findings, continue Pimobendan is recommended in this patient. Assessment of progression in the future will help predict long term outcome, however prognosis is guarded at this stage (B2).

The cough is suspected to be due to a combination of mainstem bronchi compression and potentially airway disease in this predisposed breed. Screening CXR do not mention



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congestion and Lasix can be safely discontinued. Consider further respiratory evaluation for wheezing as indicated.

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RECOMMENDATIONS

- Continue Pimobendan as prescribed.
- Discontinue Lasix as discussed.
- Consider further respiratory evaluation/treatment as discussed.
- 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.

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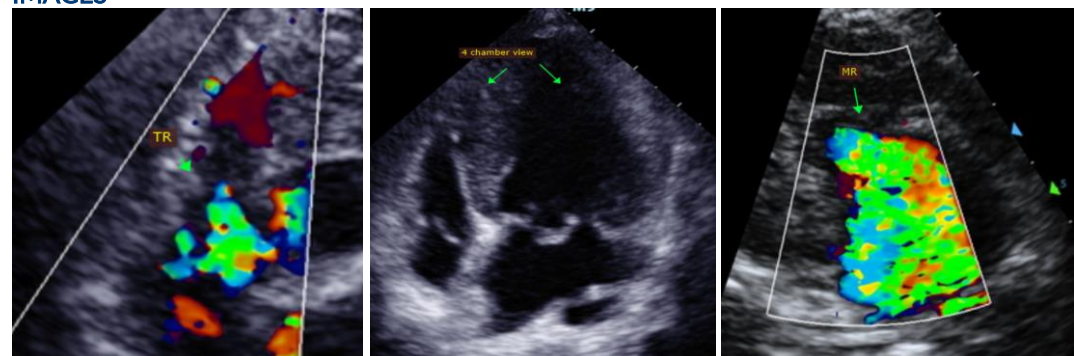
PLAN

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

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Maggie Machen Lamy, DVM
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IMAGES



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Pamela Harrigan, RDCS

HOSPITAL NAME

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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.

REFERRING VET

Dr. Caffarella

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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