



PATIENT

Shelby Menard

SPECIES

Canine

BREED

Maltese Mix

SEX

Female Spayed

AGE

12 years

WEIGHT

12lbs

PRESENTING CLINICAL SIGNS

History: Shelby came in for coughing x few months . Chest films revealed an enlarged heart. She is eating well---Hill's S/O due to history of bladder stones. Occasional reverse sneeze noted; no V/D/PU/PD. On exam: NSR, grade III/VI murmur with PMI left apical area, PSS, lung fields sl harsh on inspiration on right, mm pink, moist, CRT<2. BP: 150-160 mmHg. Current medications: Apoquel 5.4mg 1 tab daily *No sedation for study.

ECHOCARDIOGRAM FINDINGS

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

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

Left atrium: The left atrium is normal.

Mitral valve: The mitral valve is diffusely thickened with mild prolapse into the left atrial lumen. Mild 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. Mild aortic insufficiency.

Right ventricle: Normal right ventricular diameter and morphology.

Right atrium: Mild RA enlargement.

Tricuspid valve: The tricuspid valve appears mildly thickened with mild to moderate tricuspid regurgitation. Velocity consistent with early 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 120bpm.

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

2-Dimensional Measurements

Ao diam (cm)	1.4
LA diam (cm)	1.7
LA:Ao (Swe)	1.2
IVS thickness (cm)	0.7
LVID diastole (cm)	2.4
PW thickness (cm)	0.8
LVID systole (cm)	0.9
FS (%)	64

Doppler Measurements

PV Vmax (m/s)	0.7
AoV Vmax (m/s)	1.5
MR Vmax (m/s)	5.3
TR Vmax (m/s)	3.2
TR PG (mmHg)	40

IMAGING

PERFORMED BY

Pamela Harrigan,
RDCS

HOSPITAL NAME

Mass Veterinary Services

REFERRING VET

Dr. Masloski

INVOICE

31909

DATE

7/18/23

INTERPRETATION OF THE FINDINGS

Chronic degenerative valve disease causing mild mitral and mild to moderate tricuspid regurgitation. Lack of significant left a or right trial enlargement indicates the current risk for complication is low. Early pulmonary hypertension is noted, which is likely secondary to a reported cough. Finally, a small aortic valve insufficiency is noted; however, the reported BP is reasonable. No additional issues are identified.

Given these findings, the cough is unlikely to be cardiac in origin and primary respiratory causes should be considered. Consider further respiratory work up/treatment (hydrocodone, taper course of steroids, Enrofloxacin, TTW/BAL, etc.).

No medications are indicated based upon these findings. Assessment of progression in the future will help predict long term prognosis, which is highly variable at this stage (B1).



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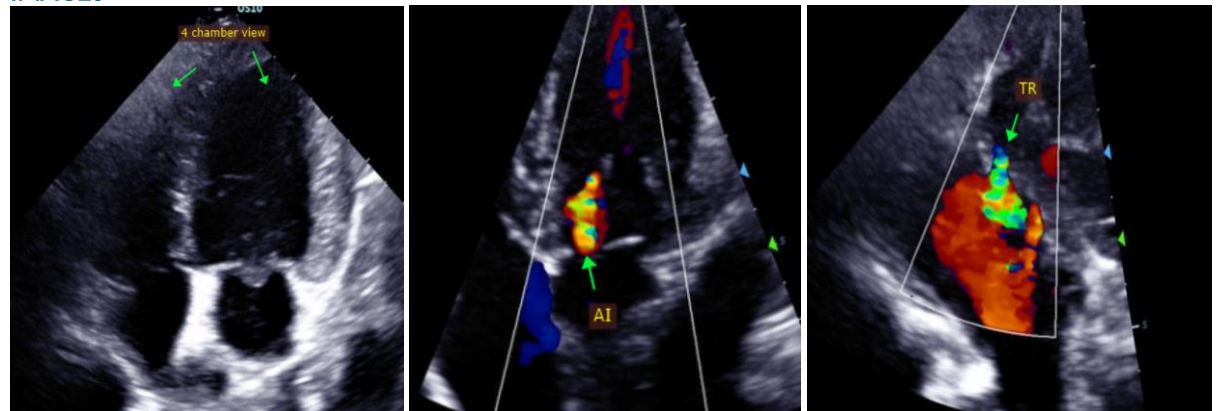
RECOMMENDATIONS

- No cardiac medications are indicated.
- Consider cough 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.

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)