



**PATIENT**

Holly Missimer

**SPECIES**

Canine

**BREED**

Brittany Spaniel

**SEX**

Female

**AGE**

10 years

**WEIGHT**

29.5lbs

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Pamela Harrigan,  
RDCS

**HOSPITAL NAME**

Norfolk County  
Veterinary Service

**REFERRING VET**

Dr. Leoni

**INVOICE**

22646

**DATE**

2/17/22

**PRESENTING CLINICAL SIGNS**

History: Recheck echo. History chronic valvular disease - Stage B1. Currently, Holly is doing well clinically; no issues noted.

-Pertinent previous echo findings (7/8/21 (MML): LA 2.5 cm; LA:Ao 1.1; LV 3.7 cm; normal LA size; mild MR; trace TR (2.4 m/s).

**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 minimally dilated.

**Mitral valve:** The mitral valve is mildly 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. 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 normal with trace 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)	2.3
LA diam (cm)	2.8
LA:Ao (Swe)	1.3
IVS thickness (cm)	0.9
LVID diastole (cm)	3.8
PW thickness (cm)	0.9
LVID systole (cm)	2.4
FS (%)	38

**Doppler Measurements**

PV Vmax (m/s)	0.65
AoV Vmax (m/s)	1.1
MR Vmax (m/s)	5.5
TR Vmax (m/s)	2.0
TR PG (mmHg)	17

**INTERPRETATION OF THE FINDINGS**

Chronic degenerative valve disease persists without evidence of significant progression. Mild mitral and trace tricuspid regurgitation are unchanged, and the LA remains minimally dilated. No concurrent issues such as systolic dysfunction or pulmonary hypertension are noted in this study. Continued assessment of progression in the future will help predict long term prognosis, which is highly variable at this stage (B1).

**RECOMMENDATIONS**

- Given these findings, no cardiac medications are clearly indicated.
- Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit.
- No cardiac contraindication for general anesthesia prior to chamber enlargement.



**PATIENT**

Holly Missimer

- Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

**SPECIES**

Canine

**PLAN**

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

**BREED**

Brittany Spaniel

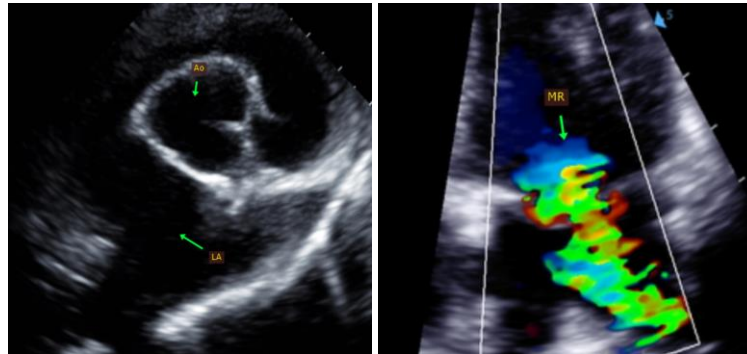
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**IMAGES**



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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.

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

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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