



**PATIENT**

Bear Speel

**PRESENTING CLINICAL SIGNS**

History: Bear was noted to have an arrhythmia in June. He is eating well at home with a normal activity level. On exam, transient, brief arrhythmia, no murmurs noted, PSS, lung fields clear. BP: 160mmHg x 3. \*No sedation for study.

**SPECIES**

Canine

**ELECTROCARDIOGRAPHIC FINDINGS** \*Note: Single lead ECGs are evaluated as a rhythm strip. Morphology/MEA cannot be definitively commented on.

A single lead ECG is available; 25mm/s, 20mm/mV. The average heart rate is 120bpm (range 105-136bpm). The rhythm is sinus in origin, with a p for every QRS complex and vice versa. P and QRS morphologies are positive. No ectopic beats, pauses or dysrhythmias observed.

**BREED**

Labrador Retriever

ECG diagnosis: Normal sinus rhythm with respiratory variation.

**SEX**

Male Neutered

**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.

**AGE**

6 years

**Left atrium:** The left atrium is normal.

**Mitral valve:** The mitral valve is mildly thickened with no prolapse into the left atrial lumen. No MR.

**WEIGHT**

109lbs

**Aortic valve/Aorta:** The aortic valve is normal in morphology and mobility. Normal aortic outflow velocity depending on heart rate; 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.

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**Tricuspid valve:** The tricuspid valve appears normal with no tricuspid regurgitation.

**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.

**IMAGING PERFORMED BY**

Pamela Harrigan,  
RDCS

**2-Dimensional Measurements**

Ao diam (cm)	2.2
LA diam (cm)	2.9
LA:Ao (Swe)	1.3
IVS thickness (cm)	1.1
LVID diastole (cm)	4.6
PW thickness (cm)	1.1
LVID systole (cm)	3.3
FS (%)	28

**Doppler Measurements**

PV Vmax (m/s)	1.1
AoV Vmax (m/s)	1.5
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

**HOSPITAL NAME**

Mass Veterinary Services

**REFERRING VET**

Dr. Masloski

**INTERPRETATION OF THE FINDINGS**

Overtly normal cardiac structure and function. The overall dimensions are normal with no evidence of significant structural disease. Follow up is advised should a murmur be ausculted in the future. No additional issues are identified.

**INVOICE**

26720

Additionally, the ECG is unremarkable with a normal sinus rhythm. If intermittent arrhythmias persist on auscultation, a holter monitor may be necessary to fully diagnose the issue. If present, no structural cause for an arrhythmia is seen here and other possibilities should be ruled out (primary versus secondary to systemic illness).

**DATE**

10/5/22



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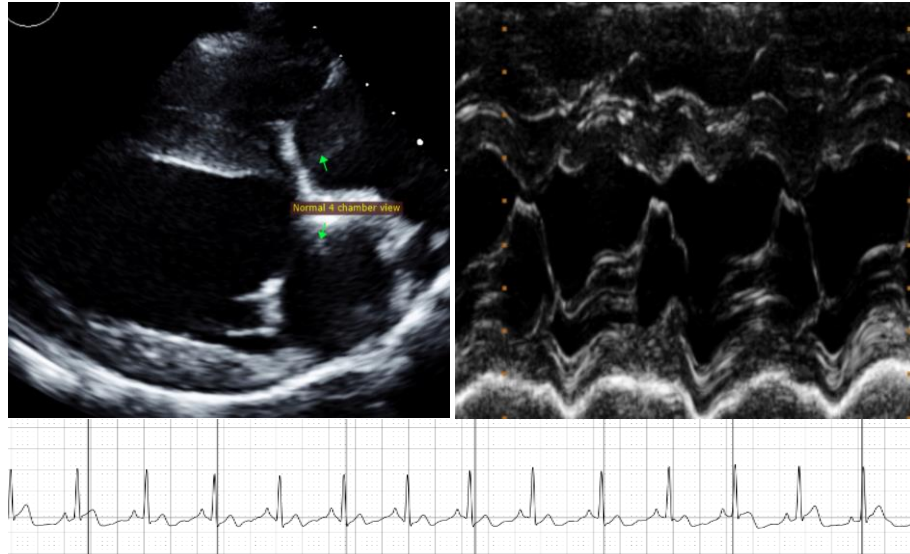
**RECOMMENDATIONS**

- No cardiac medications are clearly indicated.
- Consider repeat ECG and/or holter monitor if arrhythmia is persistent.
- No cardiac contraindication for general anesthesia; however, recommend further evaluation of the arrhythmia prior to proceeding.
- Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

**PLAN**

- Recommend conservative monitoring with a recheck echocardiogram should a murmur or signs of cardiac compromise be noted in the future.

**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)