



PATIENT

Shadow Santos

SPECIES

Canine

BREED

Weimaraner

SEX

Female Spayed

AGE

5 years

WEIGHT

43.5lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

**IMAGING
PERFORMED BY**

Pamela Harrigan,
RDCS

HOSPITAL NAME

Mass Veterinary
Specialty Services

REFERRING VET

Dr. Masloski

INVOICE

21588

DATE

10/19/21

PRESENTING CLINICAL SIGNS

History: Referred for evaluation of a heart murmur heard when she was seen for a mass on her lip. She is in need of surgery to have the mass removed. History of heartworm as a pup. No cough; normal respirations. Diet: gluten free and grain free diet canned food, CV/RESP: NSR, grade I-II/VI murmur with PMI left apical area, PSS, lung fields clear. BP: 140mmHg x 3. No cardiac medications. *Sedated with propofol for study.

ECHOCARDIOGRAM FINDINGS

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

Left ventricle: The LV diameter is normal with mild LV dysfunction. LV wall thicknesses are normal.

Left atrium: The left atrium is normal.

Mitral valve: The mitral valve is mildly thickened with no 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 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.

Heart rhythm: ECG reveals a sinus rhythm with an average HR of 100bpm.

2-Dimensional Measurements

Ao diam (cm)	2.4
LA diam (cm)	2.6
LA:Ao (Swe)	1.1
IVS thickness (cm)	0.95
LVID diastole (cm)	4.0
PW thickness (cm)	1.0
LVID systole (cm)	3.0
FS (%)	25

Doppler Measurements

PV Vmax (m/s)	0.6
AoV Vmax (m/s)	1.4
MR Vmax (m/s)	NM
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

INTERPRETATION OF THE FINDINGS

Chronic degenerative valve disease causing mild mitral regurgitation. Lack of significant left atrial enlargement indicates the current risk for complication is low. A fractional shortening of 25% is noted which may be due to sedation, may be a normal variant, or may be secondary to a non-traditional diet. **Highly recommend a diet change in this case unless absolutely necessary.** No concurrent issues such as pulmonary hypertension are noted in this study.

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.
- Consider diet change as discussed.



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

SPECIES
Canine

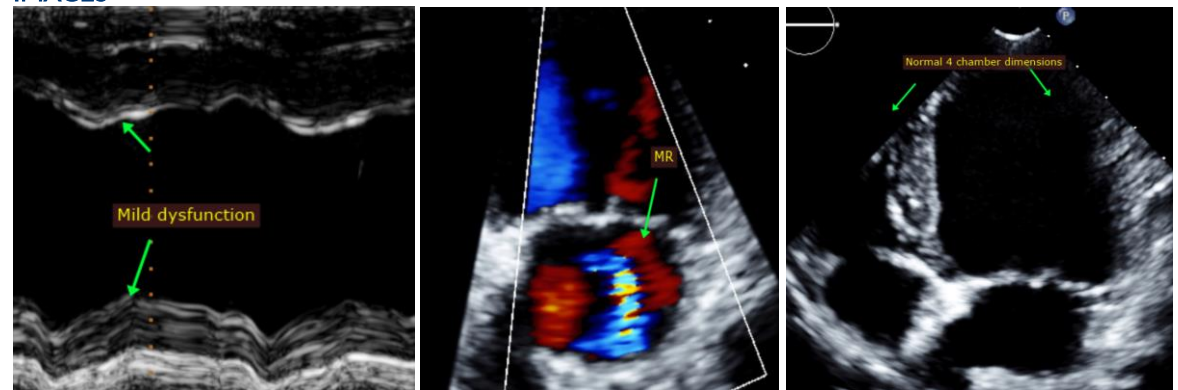
PLAN

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

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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.

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.

**IMAGING
PERFORMED BY**

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Pamela Harrigan,
RDCS

HOSPITAL NAME

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

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