



PATIENT

Schall Coughlin

SPECIES

Canine

BREED

Golden Retriever

SEX

Female Spayed

AGE

6 years

WEIGHT

53lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Sands Hill Mobile
Veterinary Ultrasound

HOSPITAL NAME

Sands Hill Mobile
Veterinary Ultrasound

REFERRING VET

Dr. Tarter

INVOICE

30057

DATE

4/5/23

PRESENTING CLINICAL SIGNS

History: Recheck echo. Still eating 4Health diet.

-Pertinent previous echo findings (10/2022 MML): Trace MR, no LAE, mild to moderate LVE, mild TR. FS: 20%, LV; 4.7/3.0, LA: 2.4. Nutritional DCM suspected previously.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The mitral valve is normal with no mild prolapse into the left atrial lumen. Mild eccentric MR with no left atrial dilation. Mild LV dilation in diastole with moderate dilation in systole (LVIDdN: 2.04 LVIDsN: 1.54). Moderate decline in myocardial function. Normal LV wall thickness. Increased LV sphericity. The tricuspid valve appears normal in form and function. Mild TR with normal velocity. Prominent right atrial and ventricular diameter. No overt evidence of pulmonary arterial hypertension or right heart decompensation. The aortic valve is normal in morphology and mobility. No subvalvular ridge present; normal LVOT velocity with laminar flow. Normal RVOT velocity with laminar flow. Trivial AI and no PI. No pericardial or pleural effusion noted. No obvious cardiac tumors.

CARDIAC CHART

| CANINE CARDIAC PARAMETERS | MR VMAX (m/s) | TR VMAX (m/s) | LA/AO (Boon method) | LA/AO (Heart Base; Swe) | FS (%) | EF (%) | EPSS (cm) |
|---|---------------|---------------|---------------------|-------------------------|---------------------------------|--|--|
| NORMAL PARAMETER | 4.5-5.5 | <2.7 | 1.3 | <1.6 | 28-40 | 40-100 | <0.6 |
| PATIENT | 4.5 | 2.7 | 1.3 | 1.3 | 19 | 35 | 1.1 |
| CANINE CARDIAC PARAMETERS | HR (BPM) | AV VMAX (m/s) | PV MAX (m/s) | BODY WEIGHT (kg) | LA 2D short axis Base view (cm) | LVIDd Avg; 2D and m-mode short axis (cm) | LVIDs Avg; 2D and m-mode short axis (cm) |
| NORMAL PARAMETER | 50-100 | 0.7-1.7 | 0.7-1.6 | BELOW | BELOW | BELOW | BELOW |
| PATIENT | 100 | 1.3 | 0.8 | 24.0 | 2.6 | 5.2 | 4.2 |
| *Normal chamber parameters expressed as a mean value (SD) | | | | 3 | 1.27 (5.3) | 2.46 (2.46) | 1.36 (5.5) |
| BODY WEIGHT DEPENDENT PARAMETERS | | | | 5 | 1.40 (4.5) | 2.74 (5.2) | 1.60 (4.7) |
| <i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i> | | | | 10 | 1.50 (3.8) | 3.27 (3.5) | 2.06 (3.1) |
| | | | | 15 | 1.83 (2.0) | 3.71 (2.4) | 2.43 (2.1) |
| | | | | 20 | 2.02 (1.9) | 4.14 (2.2) | 2.80 (2.0) |
| | | | | 25 | 2.18 (2.4) | 4.48 (2.9) | 3.10 (2.5) |
| | | | | 30 | 2.33 (3.3) | 4.83 (3.9) | 3.39 (3.4) |
| | | | | 35 | 2.48 (4.3) | 5.17 (5.0) | 3.69 (4.5) |
| | | | | 40 | 2.62 (5.2) | 5.48 (6.1) | 3.96 (5.4) |
| | | | | 50 | 2.88 (7.1) | 6.07 (8.3) | 4.46 (7.4) |

Adapted from June Boon, Veterinary Echocardiography, 1998
Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435
Hansson et al, Vet Rad and Ultrasound 2002
Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Largely stable disease is identified. The LV is slightly increased comparatively; however, the systolic function appears stable. The LA remains normal, indicating low risk for complication. MR and TR are also slightly progressed and should be monitored going forward.

Given these findings, continued medications are recommended as previously described. A diet change is also strongly recommended in this case. No additional medications are warranted at this time.



PATIENT

Schall Coughlin

Prognosis remains guarded long-term however it is encouraging that the patient remains asymptomatic. There may be risk for development of congestive heart failure, malignant arrhythmias (AF, VT), collapse and/or sudden death in the future.

SPECIES

Canine

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

BREED

Golden Retriever

PLAN
Continue Pimobendan 0.3mg/kg PO q12h. Continue ACE-I 0.5mg/kg PO q12h with periodic blood pressure monitoring. Continue Taurine supplement lifelong. A diet change should still be considered.

SEX

Female Spayed

A recheck echocardiogram is recommended in 6 months, sooner if a murmur develops or any signs of cardiac disease are noted.

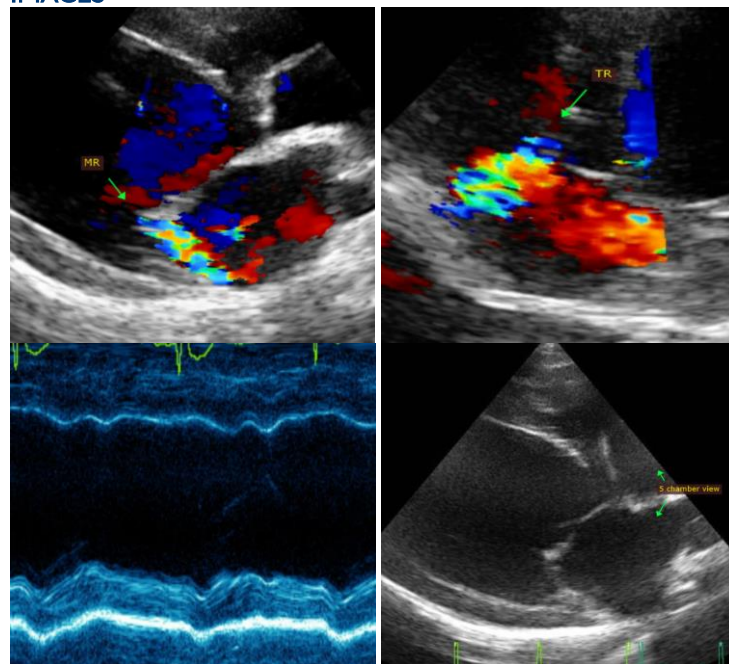
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

INVOICE

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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.

DATE

4/5/23

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