



PATIENT

Lucy Lobo

PRESENTING CLINICAL SIGNS

History: Tachypnea. History of Cushings disease and elongated soft pallet. Potbellied appearance. Tachypnea noted during the ultrasound.

SPECIES

Canine

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Mild mitral valve thickening with no obvious prolapse into the left atrial lumen. No mitral regurgitation; normal left atrial dimension. Normal LV diameter with adequate myocardial function. The tricuspid valve appears mildly thickened with trace TR. Mild right heart prominence. Mild RV hypertrophy. No significant MPA or branch dilation. The pulmonic and aortic valves are normal in morphology and mobility. Normal LVOT/RVOT velocity. No aortic and mild pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac tumors seen.

BREED

NP

SEX

Female Spayed

CARDIAC CHART

AGE

11.5 years

WEIGHT

7.2lbs

INTERPRETED BY

Maggie Machen Lamy, DVM, DACVIM (Cardiology)

IMAGING PERFORMED BY

Sang K Han, DVM

HOSPITAL NAME

Oso Pet Care Center

| 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 | NA | NA | 1.3 | 1.1 | 58 | 90 | 0.3 |
| 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 | NM | NM | 1.0 | 3.3 | 1.3 | 1.7 | 0.7 |
| *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) |

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Early pulmonary hypertension is suspected with a small tricuspid leak and mild right heart prominence. This is likely developing secondary to described respiratory issues and monitoring is advised. It is important to note that PAH develops secondary to primary respiratory signs if poorly controlled, rather than being a primary cause. Regardless, a lack of significant right heart changes indicate little concern at this time and primary respiratory disease should continue to be addressed. The left heart is essentially normal without significant pathology.

REFERRING VET

Dr. Han

INVOICE

25183

DATE

7/6/22

These findings would certainly suggest that the respiratory issues are noncardiac in origin. Further evaluation/treatment of respiratory disease is recommended, depending on response to current regimen. Options include, Theophylline, Hydrocodone, a course of Baytril or similar, anti-



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inflammatory prednisone, etc. If refractory, TTW/BAL may be necessary. If indicated by clinical signs (ie if exertional dyspnea or collapse are noted), a Sildenafil trial can be administered to assess for any clinical improvement. Otherwise, this is not clearly warranted.

SPECIES

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The best approach to early PAH is adequate cough control, as continuing inflammation within the airways leads to its development.

BREED

NP

Monitor for signs of PAH at home, including exertional syncope and/or dyspnea.

SEX

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A recheck echocardiogram is recommended in 1 year, or if clinical signs of PAH develop (exertional syncope, etc.).

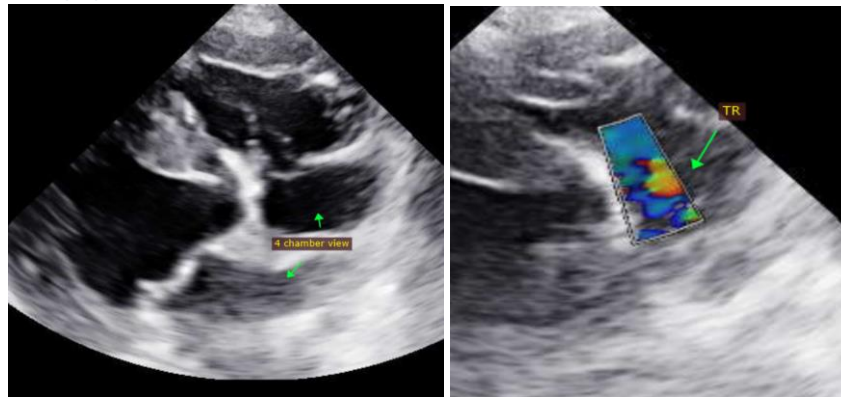
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IMAGES

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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.

IMAGING PERFORMED BY

Sang K Han, DVM

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.

HOSPITAL NAME

Oso Pet Care Center

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