



PATIENT

George Perekhodoff

PRESENTING CLINICAL SIGNS

Grade 4/5 heart murmur Owner reports sleepy at home, RR low, no coughing or exercise intolerance

SPECIES

Canine

BREED

Rottweiler

SEX

Intact male

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The **mitral** valve was mildly thickened. Mitral insufficiency was noted on color flow assessment. The **left ventricle** presented mild to moderate concentric hypertrophy. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window.

AGE

6 months

WEIGHT

32.4 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Stephanie Cory and
Danielle Jasper

HOSPITAL NAME

Orchard VC

REFERRING VET

Dr. Cory

INVOICE

42547

DATE

11/15/22

| | CANINE | MR | TR | LA/AO | LA/AO | FS | EF | EPSS |
|-------------------|-------------------|-------------|-------------|---------------|-------------------|-----------------|-----------------|-------------|
| CARDIAC | PARAMETERS | VMAX | VMAX | (Boon method) | (Heart Base; Swe) | (%) | (%) | (cm) |
| PARAMETERS | | (m/s) | (m/s) | | | | | |
| NORMAL | | 4.5-5.5 | <2.7 | 1.3 | <1.6 | 28-40 | 40-100 | <0.6 |
| PARAMETER | | | | | | | | |
| PATIENT | | | | 1.0 | 1.1 | 45 | | NM |
| CANINE | HR | AV | PV | BODY | LA | LVIDd | LVIDs | |
| CARDIAC | (BPM) | VMAX | MAX | WEIGHT | 2D short axis | Avg; 2D and m- | Avg; 2D and m- | |
| PARAMETERS | | (m/s) | (m/s) | (kg) | Base view | mode short axis | mode short axis | |
| PARAMETERS | | | | | (cm) | (cm) | (cm) | |
| NORMAL | 50-100 | 0.7-1.7 | 0.7-1.6 | BELOW | BELOW | BELOW | BELOW | BELOW |
| PARAMETER | | | | | | | | |
| PATIENT | | | | | 32.4 | 4.5 | 4.0 | |

ULTRASONOGRAPHIC FINDINGS

Mitral and aortic insufficiency.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is a potential for subaortic stenosis. CW and PW Doppler from apical approach is recommended in this patient to assess the aortic valve/LVOT. This appears to be compensated at this time. However, further imaging is necessary. There is no evidence of volume overload present. However, the left ventricular concentric hypertrophy would suggest potential for subaortic stenosis.



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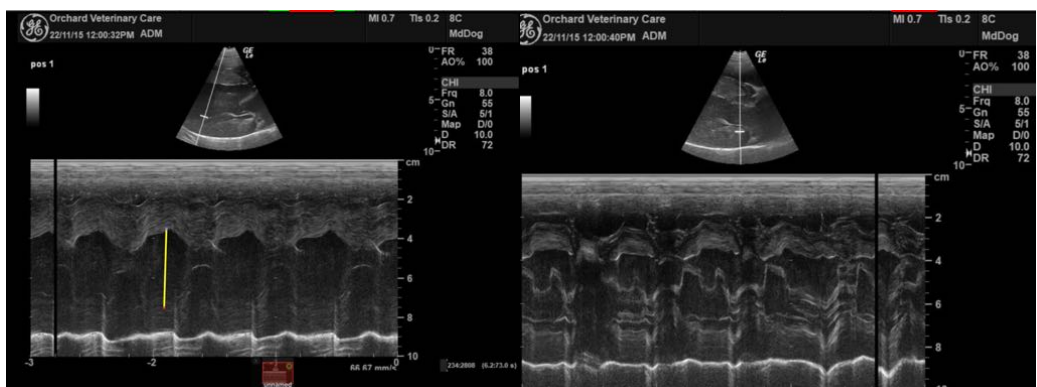
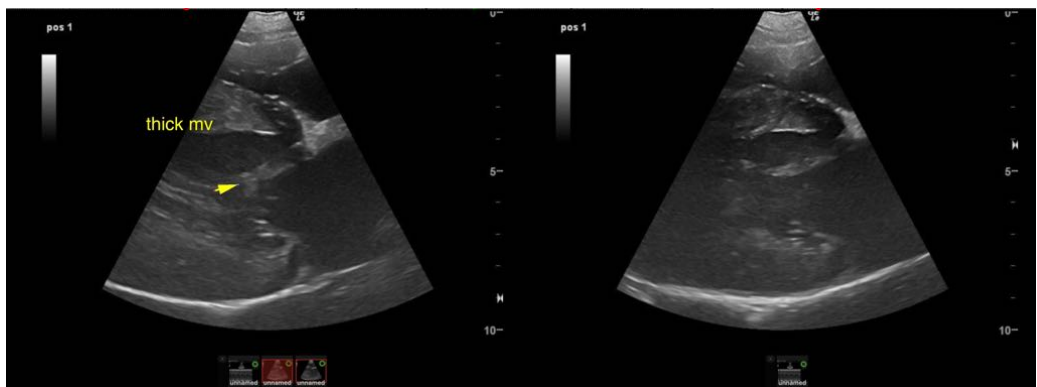
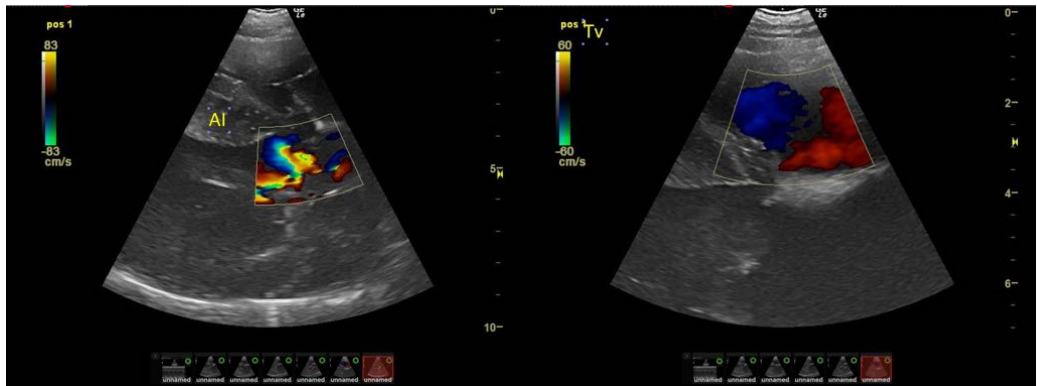
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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Canine

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

BREED

Rottweiler

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com

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