


PATIENT

Muffin Coffil

PRESENTING CLINICAL SIGNS

noted cardiomegaly on rotten thoracic imaging - asymptomatic this patient did not receive sedation for the echocardiogram

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: thyroid, chemistry and abc with in normal limits

ULTRASONOGRAPHIC EXAMINATION OF THE HEART
BREED

Shih Tzu

SEX

FS

AGE

4yr

WEIGHT

6

| 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 | <1.3 | 28-40 | 40-100 | <0.6 |
| PATIENT | | | 1.0 | | 44 | 49 | |
| 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 | | | | |
| PATIENT | | | | | 1.9 | 2.62 | |

INTERPRETED BY

 Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Eamon

HOSPITAL NAME

 Advanced Veterinary
 Imaging

REFERRING VET

Eamon

Cardiac Presentation

The echocardiogram in this patient demonstrated normal left atrial size based on 3 separate methods of LA evaluation. The cranial and caudal mitral valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. No overt MR on Doppler. The left ventricle presented thicknesses with linear contour and was not dilated nor restricted. The myocardium presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. Contractility of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The left ventricular outflow tract demonstrated normal laminar flow and subjective structural integrity. Normal measured LVOT velocity. 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. No overt TR on Doppler. 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). Normal measured RVOT velocity. No visible pericardial or free pleural fluid was noted. The cranial mediastinum and pericardial and extra-cardiac regions were free of masses in the visible window.

ULTRASONOGRAPHIC FINDINGS

- Based on the images provided the heart appears to have normal volumes and contractility, no evidence of structural disease. Ideally color flow and spectral Doppler evaluation would be performed yet subjectively no evidence of significant disease

INVOICE

13130ag

DATE

03/06/2023



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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overlying fat or x-ray taken in diastole can create the appearance of cardiomegaly. Structurally and functionally the heart appears normal.

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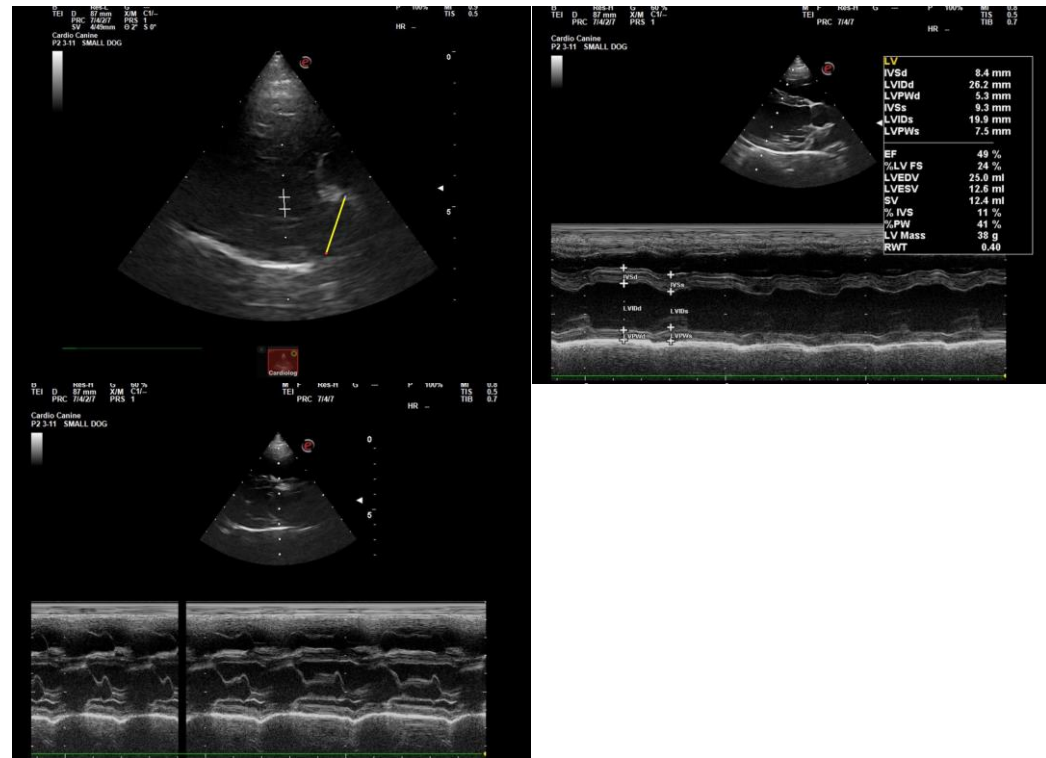
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

IMAGING PERFORMED BY

Eamon

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.

HOSPITAL NAME

Advanced Veterinary
Imaging

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Eric.Lindquist@SonoPath.com

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