



PATIENT PRESENTING CLINICAL SIGNS

Zeus Sherman

History: Patient was able to be auscultated and DVM who noticed a heart murmur grade 2-3/6 on right side; unable to appreciate on left side.

SPECIES

Abnormal PE/Chem/CBC/UA Results: Pre-Anesthesia results CBC/CHEM is normal.

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Great Dane

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. 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 **aortic outflow** velocity is likely underestimated at 0.8 m/sec. 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. **Pulmonic** insufficiency was noted at 0.5 m/sec. This is essentially physiological. 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.

SEX

Male

AGE

5 years

WEIGHT

145 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Gotfredson

HOSPITAL NAME

Red Hills VH

REFERRING VET

Dr. Button

INVOICE

91298

DATE

8/17/21

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			1.1	1.4			0.5
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	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		0.8	0.5	145 lbs	4.33		

ULTRASONOGRAPHIC FINDINGS

Normal echocardiogram.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The exact cause of the murmur is unclear. There is mild pulmonic insufficiency, yet no evidence of significant disease. There is no contraindication to anesthetic procedure. There is a possibility that tricuspid insufficiency is present or a very small ventricular septal defect, yet further Doppler



PATIENT

evaluation would be necessary, yet there is no volume overload or functional deficiency in this patient at this time.

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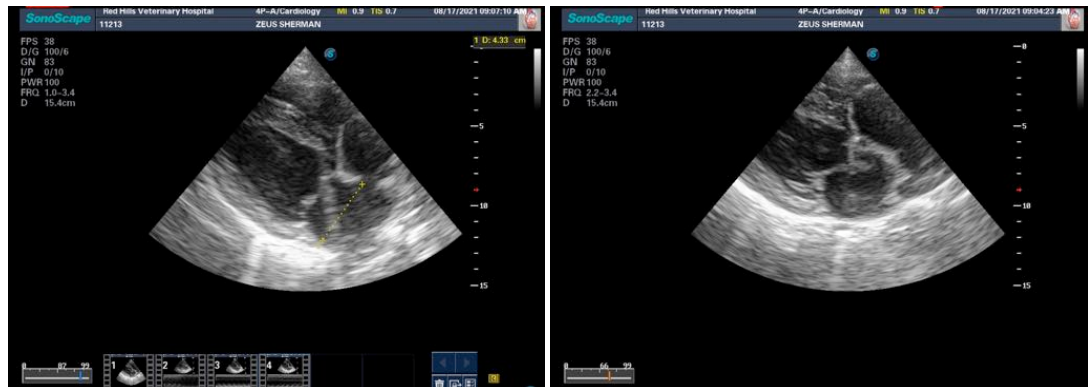
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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