



PATIENT

Emma Marsenison

PRESENTING CLINICAL SIGNS

Incidental finding of grade 2-3/6 LSHM.

SPECIES

Canine

BREED

Rottweiler

SEX

Intact female

AGE

6 months

WEIGHT

16 kgs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Sikorski

HOSPITAL NAME

Animal Internal
Medicine

REFERRING VET

Dr. Sikorski

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 slightly thickened. Concurrent mitral valve insufficiency was noted on color flow 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. Aortic velocity was excessive at 3.2 m/sec. The **left ventricular outflow** tract revealed elevated velocity and turbulence of color flow assessment. Excessive velocity measured approximately 4.0 m/sec. However, Doppler angle was slightly offline with some interference. The actual velocity may be further elevated. No secondary effects upon the left ventricle was noted. Therefore, it is currently compensated. 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 outflow** velocity is mildly excessive at 2.2 m/sec. 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.

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			1.15		45		NM
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		3.2		16	3.0 max	3.5	

ULTRASONOGRAPHIC FINDINGS

Suspect subaortic stenosis and mitral insufficiency without secondary compensatory changes.

INVOICE

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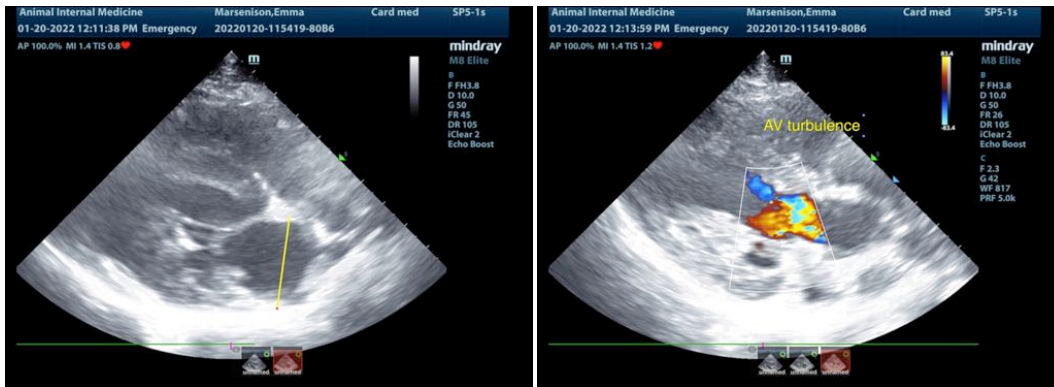
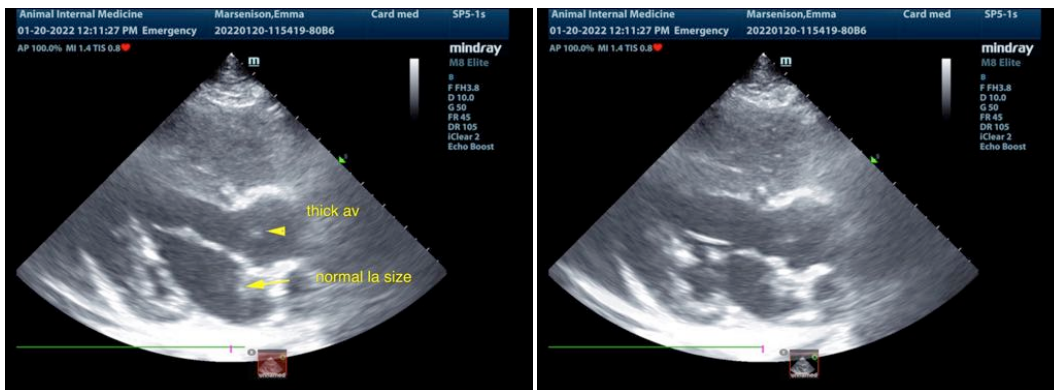
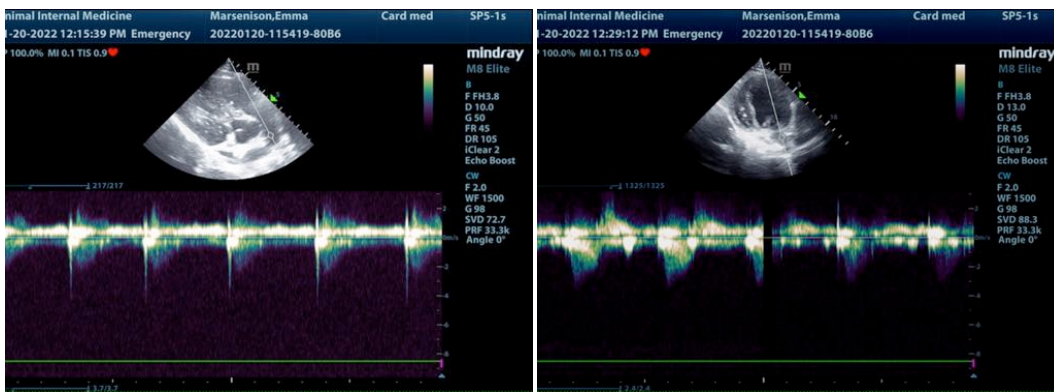
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is no overt contraindication to anesthetic procedure if necessary in this patient. Further Doppler assessment of the left ventricular outflow tract is warranted to assess degree. The patient presented an elevated respiratory rate likely owing to excitement. Sedation with Torbutrol is recommended for further imaging and definition. I do not recommend breeding this patient given the probability of subaortic stenosis.





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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.

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.

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