



PATIENT PRESENTING CLINICAL SIGNS

Dagmar Husarenko Coughing after activity, exercise intolerance. O reports doing better since starting meds. Current meds: Furosemide 12.5mg q12h, Enalapril 10mg q12h.
 Abnormal PE/Chem/CBC/UA Results: Retics 9.7

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

Pit Bull

SEX

Neutered Male

AGE

7 Years

WEIGHT

77 Pounds

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			NM	1.56	35.3	64.9	0.33
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	170	1.7	1.4		4.2	4.28	

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP (Canine and Feline)

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Animal Mansion

REFERRING VET

Dr. Bertoldo

INVOICE

25145

DATE

9/2/21

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. 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. 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/aortic ratio). No visible **pericardial** or free pleura fluid was noted. No overt cranial mediastinum, pericardial or extracardiac masses were obvious in the visible window.

ULTRASONOGRAPHIC FINDINGS

- Overtly normal cardiac structure and function

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The echocardiogram in this patient revealed overtly normal cardiac function and structure in light of breed. No overt evidence of arrhythmogenic disease, systolic dysfunction, stenotic valvular disease, valvular insufficiencies, or shunt. No overt evidence of pericardial or extracardiac neoplasia. Given the normal left atrial size and lack of significant left or right heart chamber enlargement, an obvious cardiogenic cause of the patient's clinical signs and exercise intolerance was not evident. Potential for



PATIENT

Dagmar Husarenko

intermittent or paroxysmal arrhythmogenic disease cannot be definitively excluded. Cardiogenic pulmonary edema is considered unlikely given the lack of left or right heart chamber enlargement. Consideration for possible causes of non-cardiogenic edema may be indicated. ECG or ideally holter monitor assessment to assess for intermittent arrhythmia is suggested. Given the lack of systolic dysfunction, no overt indication for Pimobendan or Enalapril. Given the reported positive response to Furosemide, continued low-dose Furosemide with potential for weaning and monitoring of clinical response may be considered.

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Recheck echocardiogram suggested in 4-6 weeks if current clinical signs including coughing and exercise intolerance continue in order to reassess the heart as well as potential for possible non-visualized pericardial or extracardiac pathology not visible in this study.

SEX

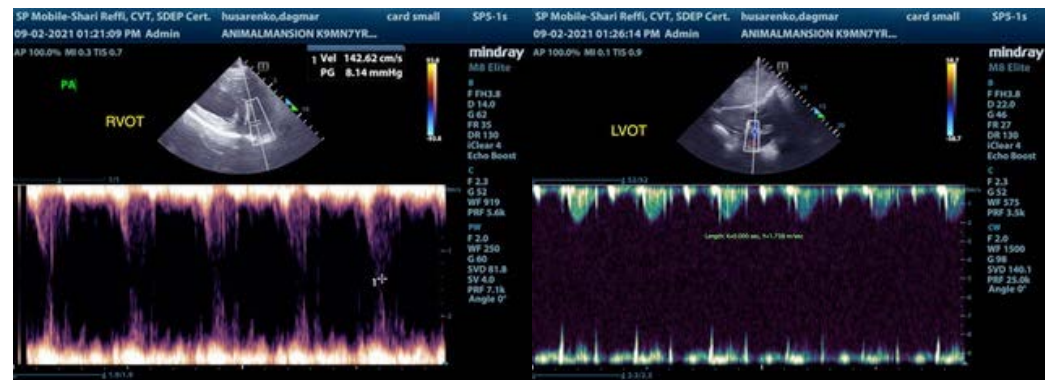
Neutered Male

AGE

7 Years

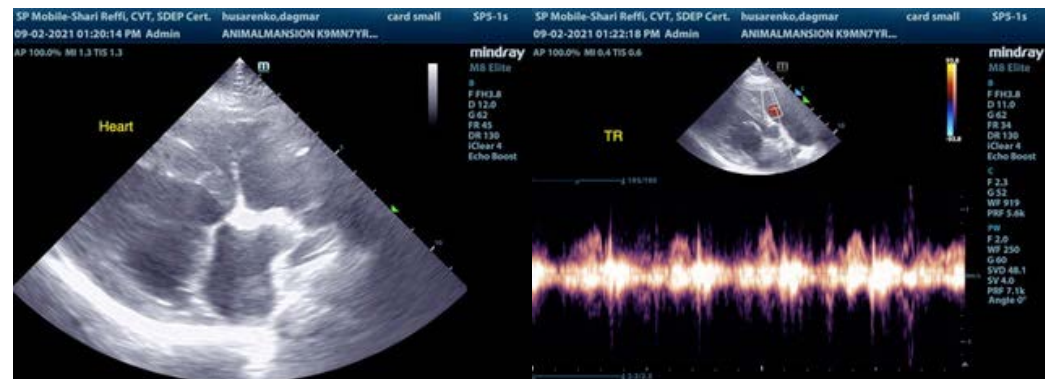
WEIGHT

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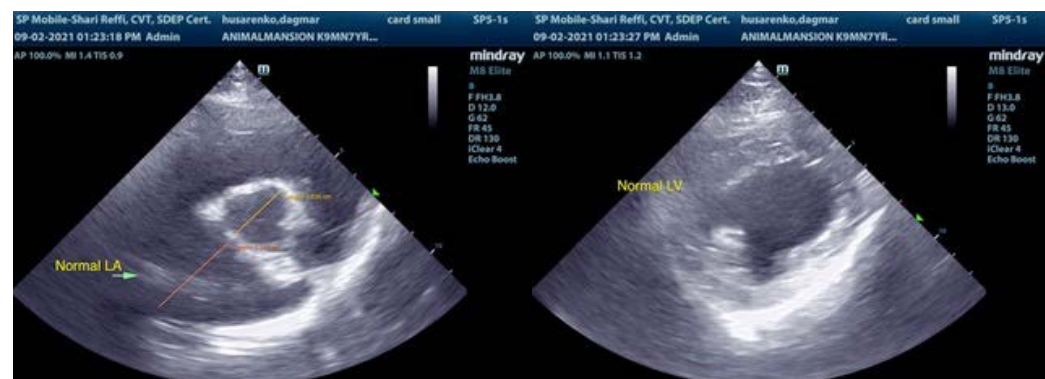


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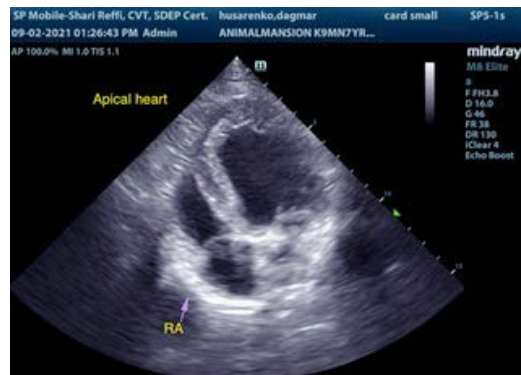
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SEX

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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.

AGE

7 Years

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.

WEIGHT

77 Pounds

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