



PATIENT PRESENTING CLINICAL SIGNS

Ryo Ragman Grade 6/6 heart murmur. Low resting heart rate. Severe dental disease. No reported symptoms of heart disease at home. No meds.

SPECIES

Canine

BREED

Chihuahua

SEX

Neutered male

AGE

8 years

WEIGHT

3.98 kg

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

The echocardiogram in this patient demonstrated enlarged **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated measurable insufficiency. 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 or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** 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. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum** and **pericardial** regions were free of masses in the visible window. Significant bradyarrhythmia was noted in this patient.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Crystal Hill

HOSPITAL NAME

Beatties PH Stoney
Creek

REFERRING VET

Dr. Mellish

INVOICE

95402

DATE

1/19/22

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC PARAMETERS	VMAX (m/s)	VMAX (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	6.0		NM		41	73	0.48
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC PARAMETERS	(BPM)	VMAX (m/s)	MAX (m/s)	(kg)	2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT		2.5	1.2	3.98	3.3 max	3.36	



PATIENT ULTRASONOGRAPHIC FINDINGS

Ryo Ragman Bradyarrhythmia, suspect severe, possible heart block.

Mild mitral insufficiency.

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Canine

Mild to moderate volume overload; however, the bradyarrhythmia is likely contributing to volume overload.

BREED

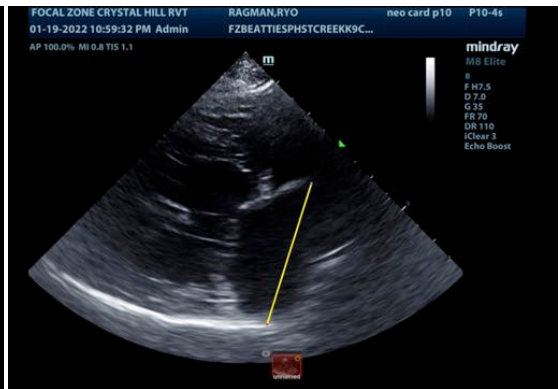
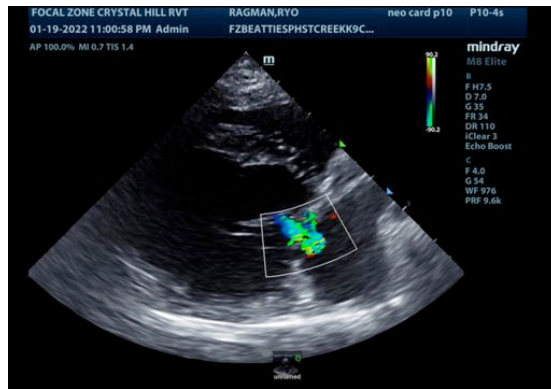
Chihuahua

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Immediate EKG is indicated. I do not recommend anesthesia of any type in this patient without further definition of the EKG. Pimobendan can be initiated at 0.3 mg/kg b.i.d. However, should be based on EKG results.

AGE

8 years



WEIGHT

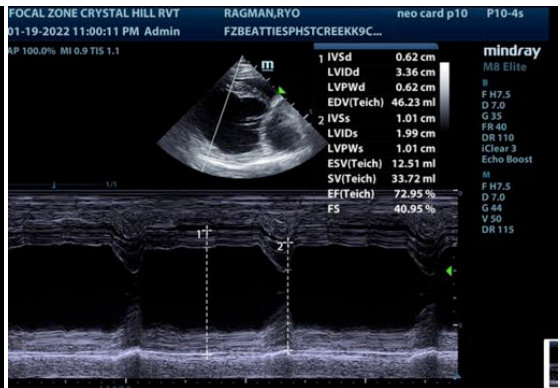
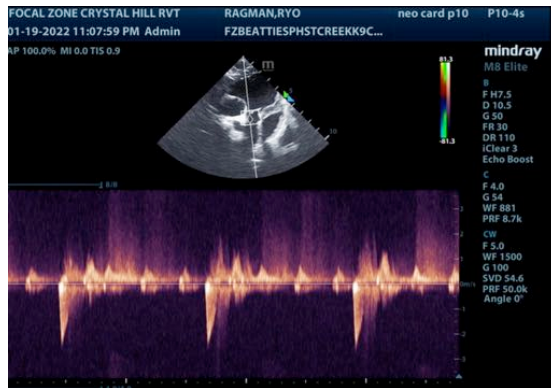
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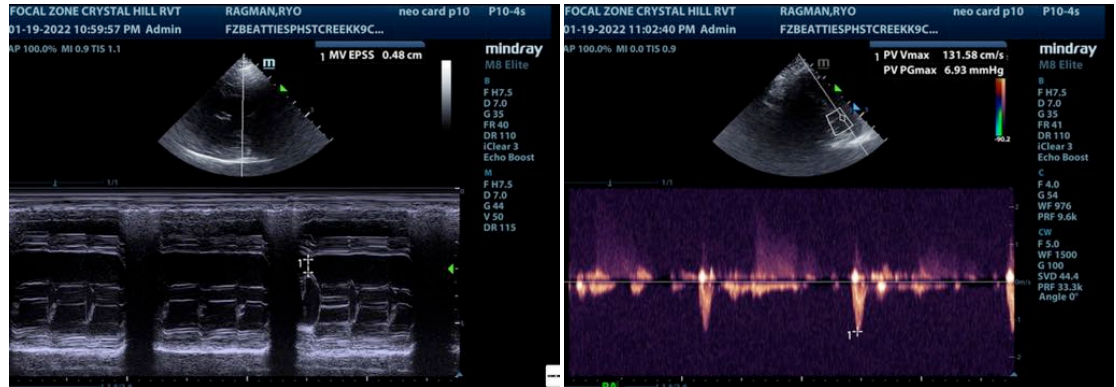
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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