

PATIENT PRESENTING CLINICAL SIGNS

Rusty Cintron History: Pre-Dental echo, grade IV/VI murmur. Current meds: Apoquel, Denamarin

SPECIES BREED ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

Breed

Cavalier King Charles Spaniel

Sex

Neutered male

Age

12 years

Weight

22.8 lbs

Interpreted by

Eric Lindquist, DMV DABVP, Cert. IVUSS

Imaging performed by

Shari Reffi, CVT

Hospital name

North Warren AH

Referring vet

Dr. Corrado

Invoice

92007

Date

9/27/21

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. Moderate **tricuspid** insufficiency was noted. 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.

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	5.02		NM	2.05	41	72	0.2
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (lbs)	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	123	1.3	0.87	22.8	4.73 max	4.31	

ULTRASONOGRAPHIC FINDINGS

Advanced stage B2 valvular disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I do not recommend anesthetic procedure in this patient. Cardiac treatment is recommended. Blood pressure measurements are warranted. Ace inhibitor at 0.5 mg/kg s.i.d. progressing to b.i.d.,



PATIENT

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Pimobendan at 0.3 mg/kg b.i.d. If basal respiratory rate is > 20/minute low-dose Lasix can be considered at 1-2 mg/kg b.i.d. A recheck echocardiogram is recommended in 2 weeks to reassess for sedation/dental procedure safety.

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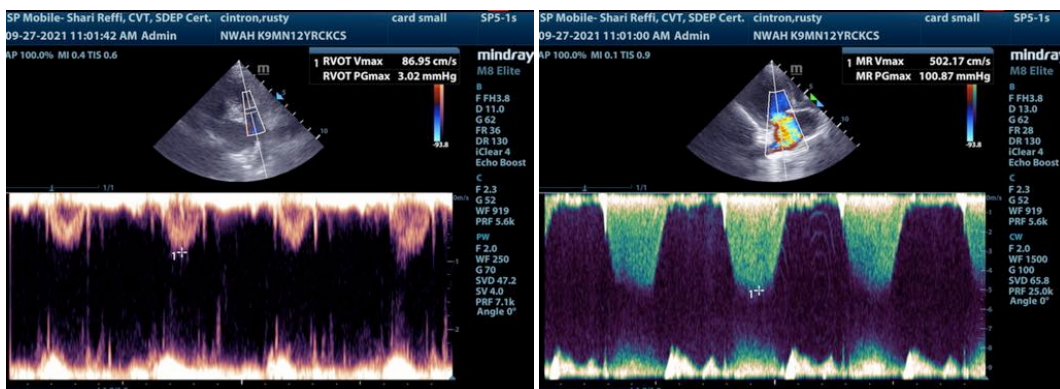
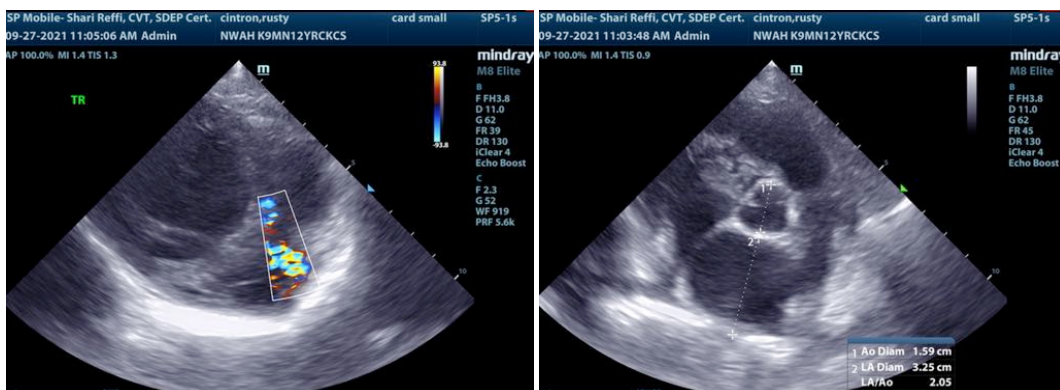
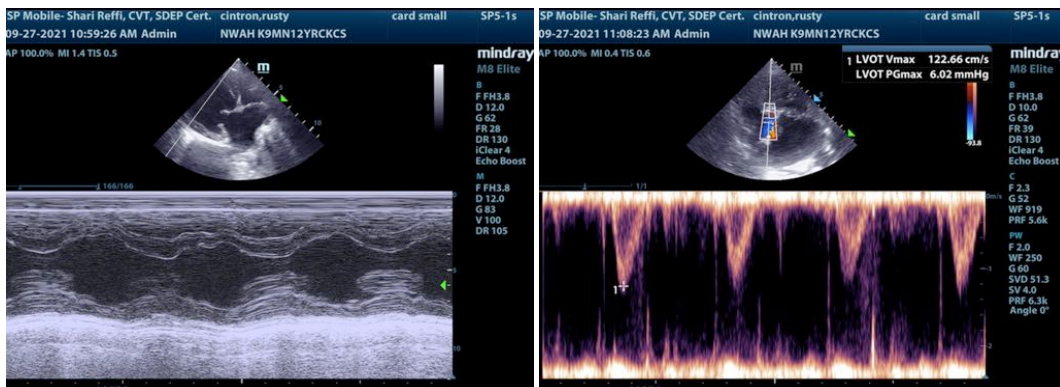
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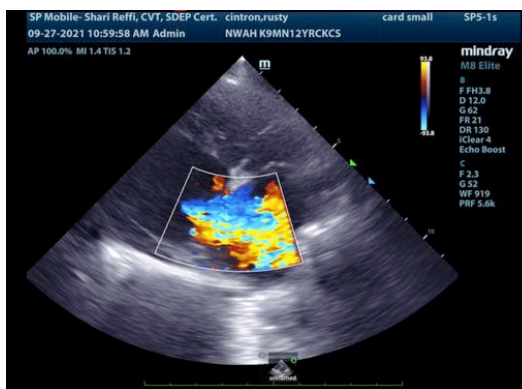
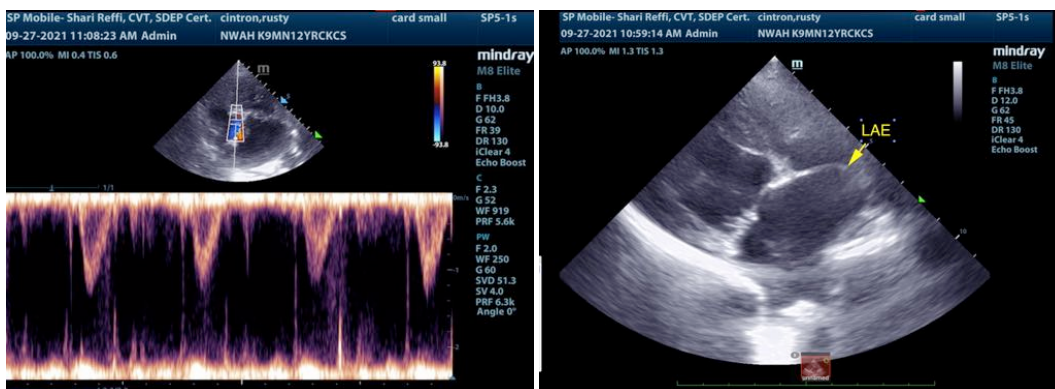
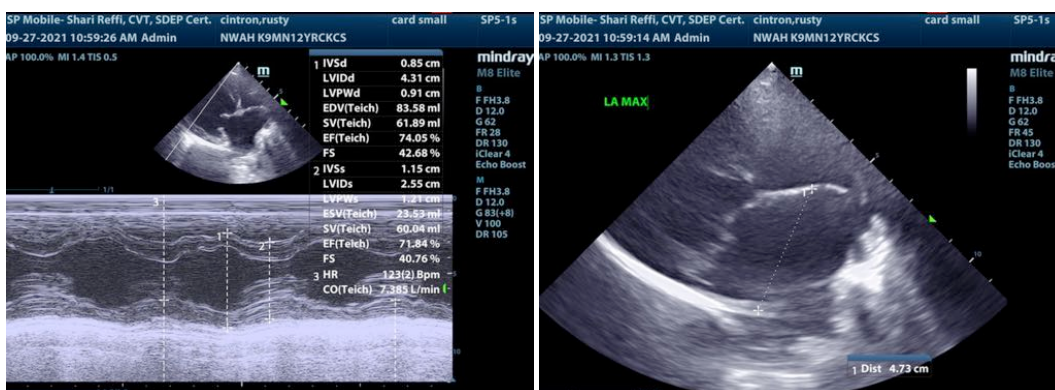
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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