



PATIENT PRESENTING CLINICAL SIGNS

Jeremy Cooper

History: Grade 5 systolic heart murmur, repeat echo Current meds: Vetmedin, furosemide, enalapril

SPECIES

Canine

BREED

King Charles Cavalier

SEX

Neutered male

AGE

10 years

WEIGHT

19.7 lbs

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

Tranquility VC

REFERRING VET

Dr. Blackman

INVOICE

43158

DATE

3/7/23

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient presented volume overload of the **left atrium**; however, this is fairly stable. **Mitral** valve insufficiency was noted. Complete filling of the left atrium was noted on color flow assessment of the mitral valve. There was prolapse of the anterior mitral valve leaflet. Minor vegetative changes were noted on the anterior leaflet. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. **Contractility** was maintained. Aortic insufficiency was noted. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** insufficiency was noted. 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/ao ratio). 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;)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	5.46	2.27	1.25	1.77	52	84	NM
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	BELOW	BELOW	BELOW	BELOW
PATIENT		1.2	0.7	19.7 lbs	4.1 max	2.74	

ULTRASONOGRAPHIC FINDINGS

Stable mitral valve disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend continuation of the current protocol. Consideration to lowering Lasix dose and adding Spironolactone at 1-2 mg/kg b.i.d. could be considered in order to conserve Lasix availability if the patient decompensated. Recheck sonogram is recommended in 6 months or earlier if clinical signs indicate (murmur grade increases or target respiratory rate is excessive > 25).



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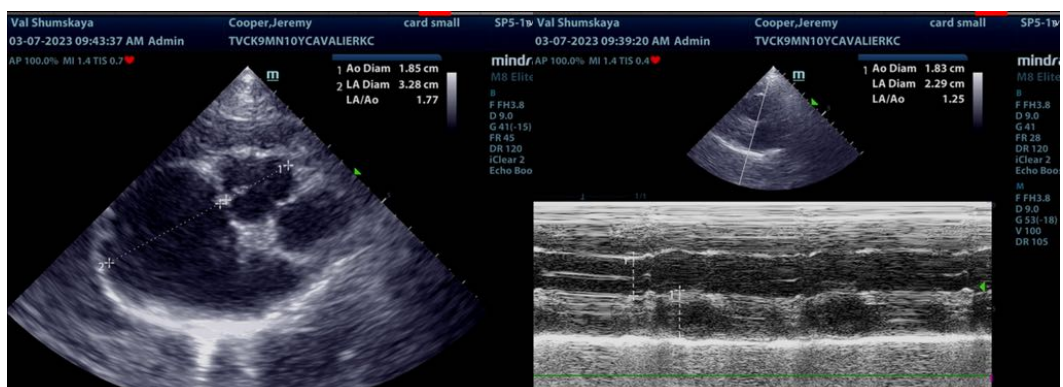
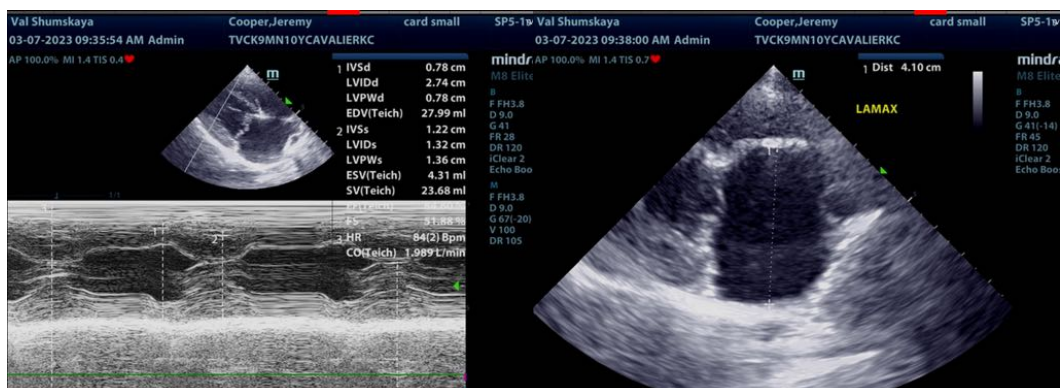
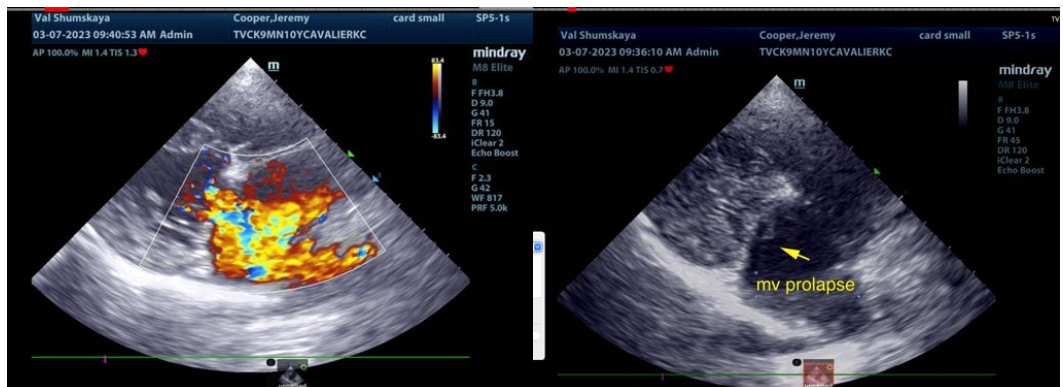
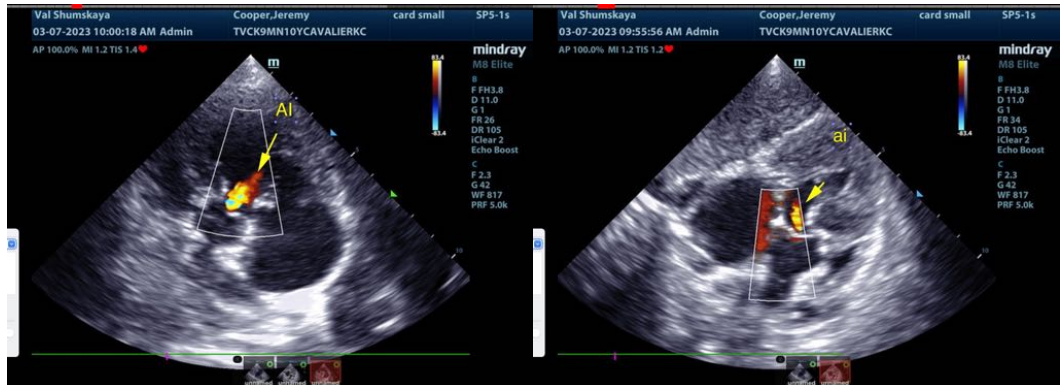
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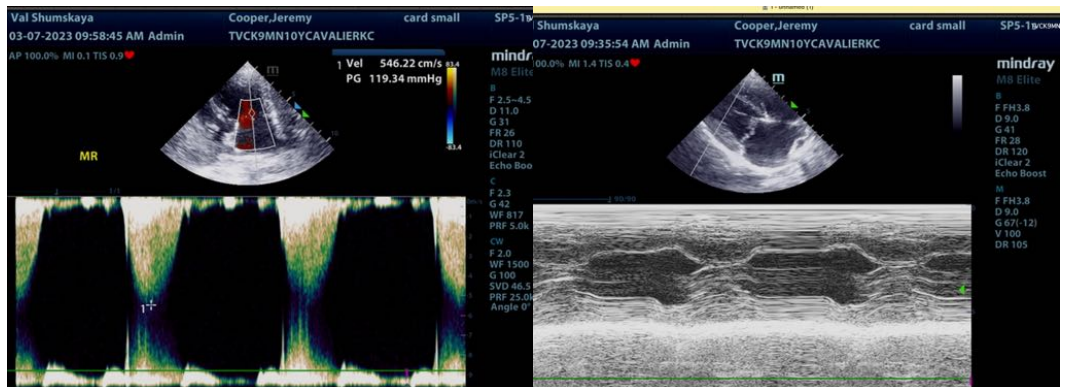
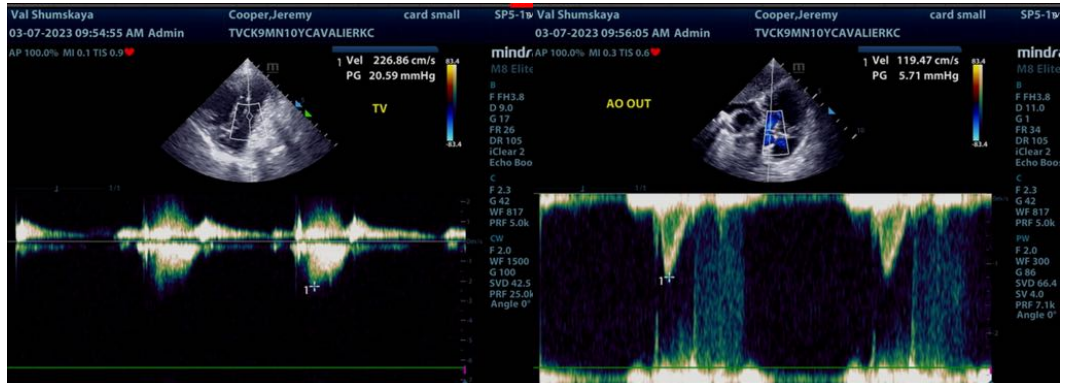
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
info@SonoPath.com