



PATIENT PRESENTING CLINICAL SIGNS

Kingston Talijan History: Grade IV/VI HM

SPECIES BREED **ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Canine

BREED

Cavalier King Charles Spaniel

SEX

Neutered male

AGE

5 years

WEIGHT

26 lbs

The **left atrium** presented mild enlargement on LA position; however, LA:AO June Boon and heart base approaches were within normal limits. The cranial and caudal **mitral valve** leaflets presented vegetative thickening consistent with endocardiosis. Moderate filling of the left atrium was noted on color flow assessment of the mitral valve. 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** insufficiency was noted at 2.7 m/sec. 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.

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Warren AH

REFERRING VET

Dr. Amber

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	6.0		1.35	1.54	36	67	0.1
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	155 and variable	1.56	0.9	26 lbs	3.8 max	3.58	

INVOICE

32670

DATE

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ULTRASONOGRAPHIC FINDINGS

This is typical for the breed and consistent with Stage B2 valvular disease with mild left atrial enlargement.

Mitral and tricuspid insufficiency.



PATIENT

Kingston Talijan

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend initiating Pimobendan at 0.3 mg/kg b.i.d.

SPECIES

Canine

The heart has some volume overload and is working to compensate for the valvular insufficiency. Target respiratory rate is < 20 resp/minute after therapy. After initiating therapy, I recommend recheck on the clinical exam, BUN, Creatinine, USG, Chest radiographs & Blood pressure in 5-7 days. Recheck echo in 1 month. Earlier if clinical decompensation is occurring. I do not recommend anesthesia at this time until stabilization has occurred on the recommended medications. Repeat preanesthetic echo is ideal if anesthesia is eventually necessary.

BREED

Cavalier King Charles Spaniel

SEX

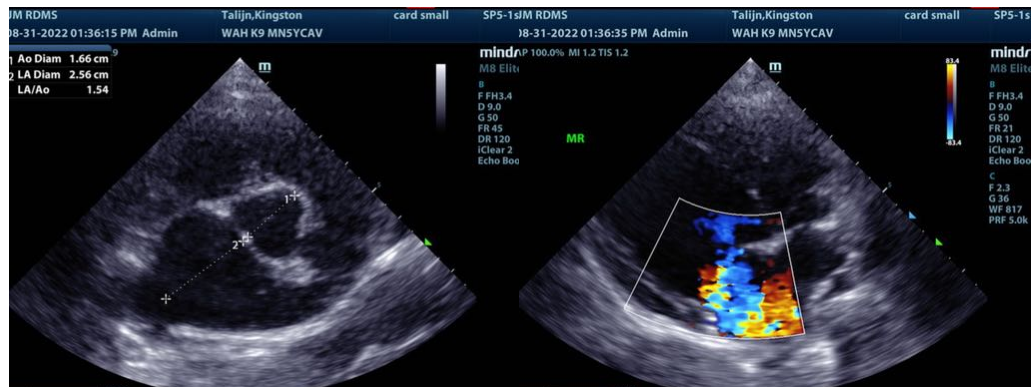
Neutered male

AGE

5 years

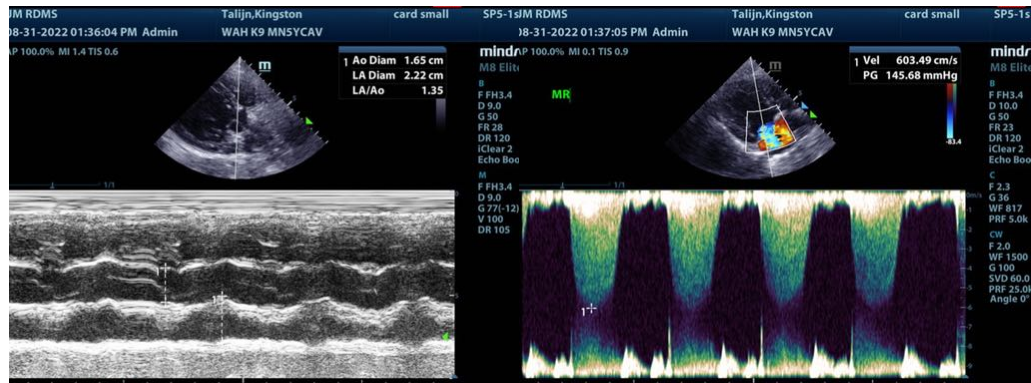
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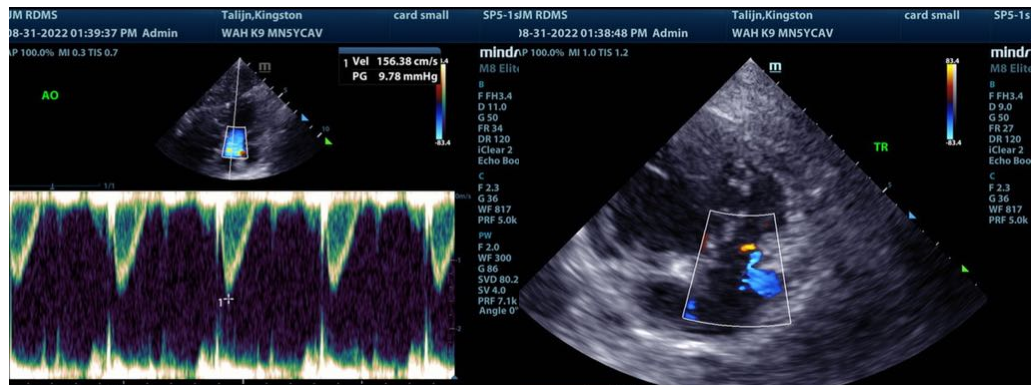
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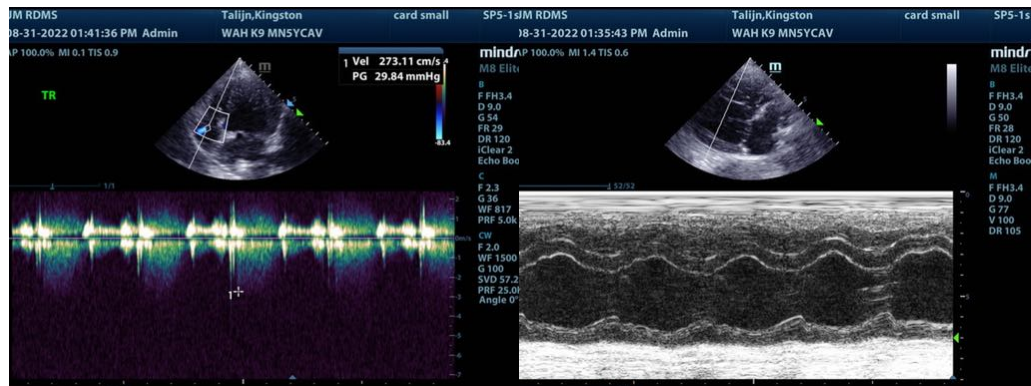
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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