



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT:** Lily Tropician  
**HISTORY:** EKG indicated 2nd degree AV block and Ventricular escape beats. Heart murmur 3-4/6 with dropped beats.  
**RESULTS:** Abnormal PE/Chem/CBC/UA Results: WNL

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

**BREED**

West Highland White Terrier

**SEX**

Spayed Female

**AGE**

14 years

**WEIGHT**

24 lbs

The echocardiogram in this patient demonstrated normal **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 **right ventricle** were mildly enlarged. Trivial **tricuspid** insufficiency was noted at 3.5 m/sec. This is consistent with pulmonary hypertension. **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. Periodic arrhythmia was noted in this patient.

**INTERPRETED BY**

Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Rodriguez

**HOSPITAL NAME**

Foxfield VS

**REFERRING VET**

Dr. Rodriguez

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	<1.3	28-40	40-100	<0.6
PATIENT	6.0	3.5	1.0	1.3			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				
PATIENT		1.5		24 lbs	2.82 max	2.3	

**ULTRASONOGRAPHIC FINDINGS**

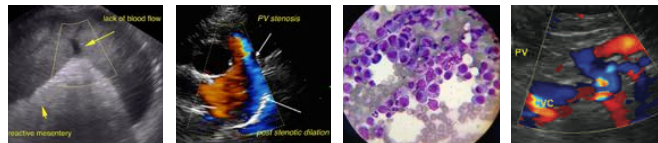
Stage B1 valvular disease.  
 Tricuspid insufficiency with right atrial enlargement.  
 No hepatic vein dilation was noted or indication of right-sided heart failure.

**INVOICE**

31096

**DATE**

6/20/22



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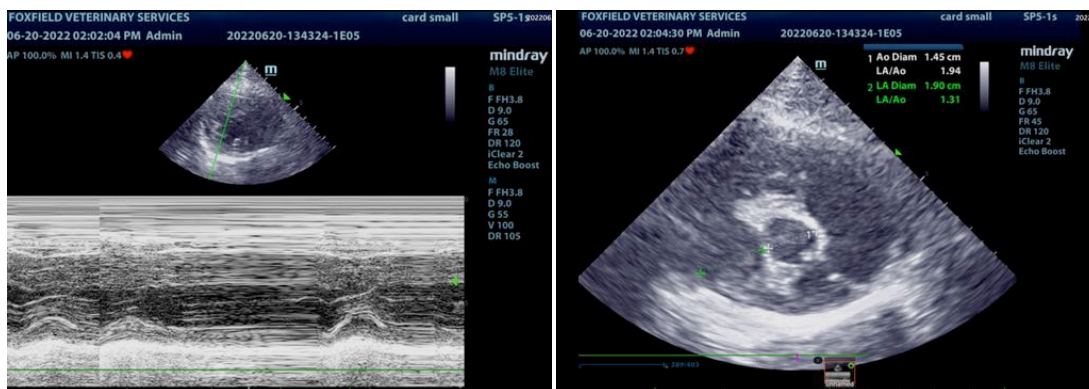
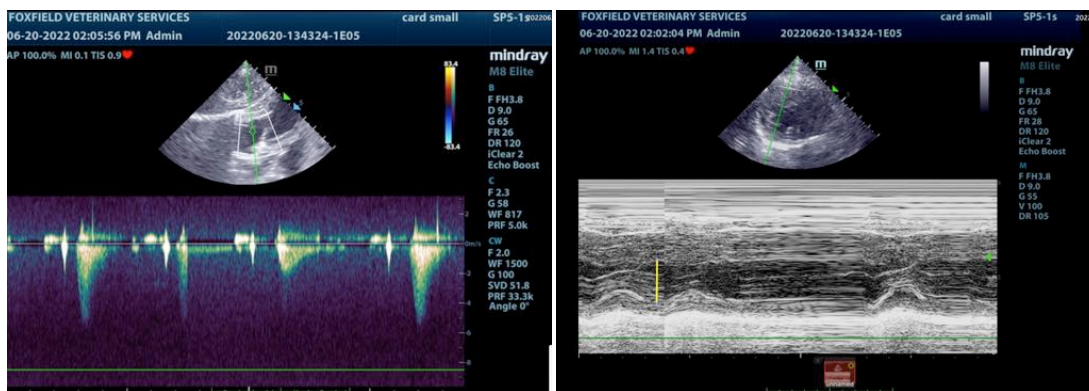
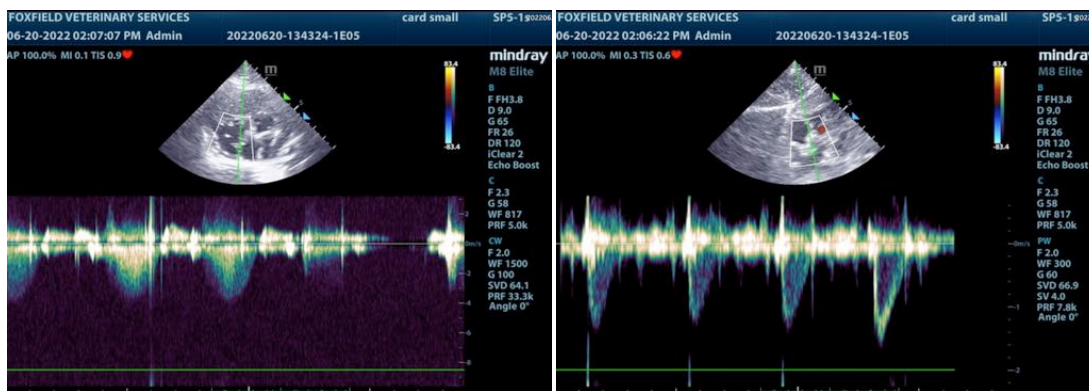
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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I recommend treating the AV block first and then reassessing the echocardiogram to assess if treatment for pulmonary hypertension would be necessary in this patient.





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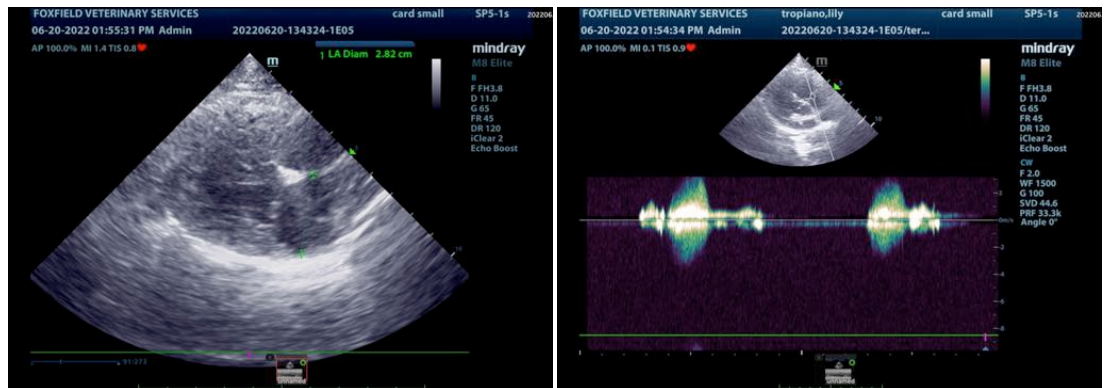
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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