



**PATIENT**

Harley Real Matias

**SPECIES**

Canine

**BREED**

Maltese Mix

**SEX**

Neutered male

**AGE**

12 years

**WEIGHT**

14.4 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Kelly Vazquez, CVT

**HOSPITAL NAME**

Westwood Regional  
VH

**REFERRING VET**

Dr. Hartwick

**INVOICE**

95398

**DATE**

1/19/22

**PRESENTING CLINICAL SIGNS**

Follow up echo, 1 month later. Current meds: Lasix 12.5 mgs 1 tab in a.m. and 1 1/2 tab at night, hydrocodone-homatropine 5-1.5 1/4 tab 3 times a day, Denamarin smal-med dogs 1/4 tab once daily, spironolactone 2.5 mgs 1/2 tab BID, benazepril 10mgs 1/4 tab SID, Vetmedin 2.5 mgs 3/4 tab TID, theophylline 100 mgs 1 tab SID. BP today: 212/145, 188/155, 196/117.

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The echocardiogram in this patient revealed persistent mitral valve prolapse, arrhythmogenic activity and persistent chronic left atrial enlargement. Complete filling of the left atrium was noted with color flow assessment of the mitral valve noted. Left ventricular dilation was also present with non-compensatory hypocontractility for this type of pathology. This is indicative of early myocardial insufficiency. No pericardial or pleural effusion was noted. Aortic insufficiency and tricuspid insufficiency was noted. Pulmonary hypertension did not appear present. The right ventricle was unremarkable.

	<b>CANINE</b>	<b>MR</b>	<b>TR</b>	<b>LA/AO</b>	<b>LA/AO</b>	<b>FS</b>	<b>EF</b>	<b>EPSS</b>
<b>CARDIAC PARAMETERS</b>		<b>VMAX</b> (m/s)	<b>VMAX</b> (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
<b>NORMAL PARAMETER</b>		4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
<b>PATIENT</b>		5.5		2.1	2.15	33	63	NM
	<b>CANINE</b>	<b>HR</b>	<b>AV</b>	<b>PV</b>	<b>BODY WEIGHT</b>	<b>LA</b>	<b>LVIDd</b>	<b>LVIDs</b>
<b>CARDIAC PARAMETERS</b>		(BPM)	<b>VMAX</b> (m/s)	<b>MAX</b> (m/s)		2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
<b>NORMAL PARAMETER</b>		50-100	0.7-1.7	0.7-1.6				
<b>PATIENT</b>		81	1.73	1.3	14.4 lbs	5.04	3.83	

**ULTRASONOGRAPHIC FINDINGS**

Persistent mitral valve prolapse.

Arrhythmogenic activity.

Chronic left atrial enlargement.

Left ventricular dilation.

Aortic and tricuspid insufficiency.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**



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The cardiac presentation is fairly stable on the current protocol; however, arrhythmogenic activity is present. EKG is indicated. If basal respiratory rate is > 20/minute then increase the Lasix dose. This is a precarious presentation, but is as stable as we can expect with this type of pathology and current medication protocol. Recheck echocardiogram as needed or in 3 months. Unfortunately this patient is at risk for sudden death.

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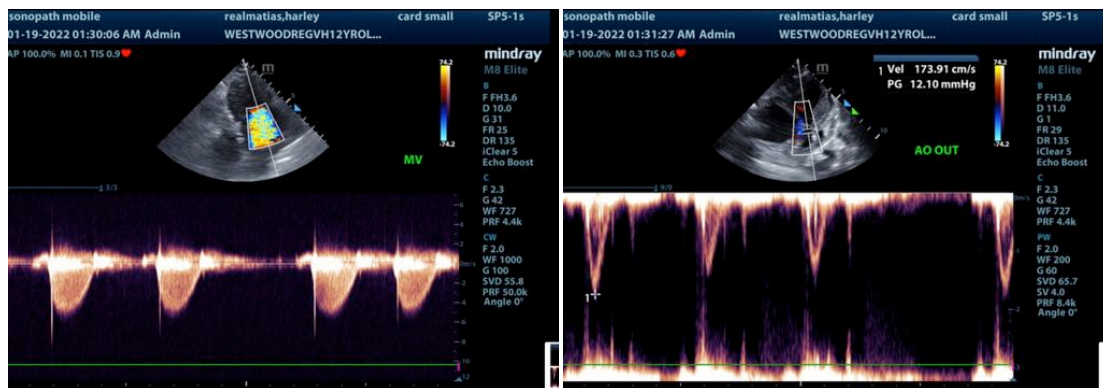
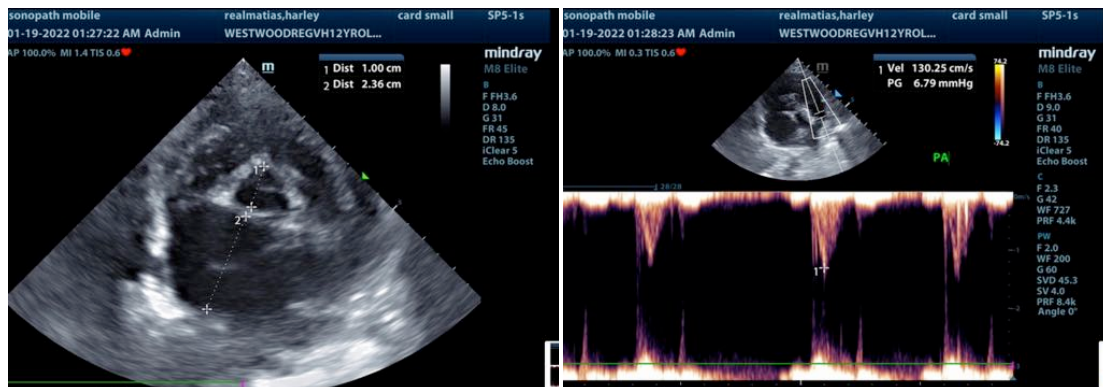
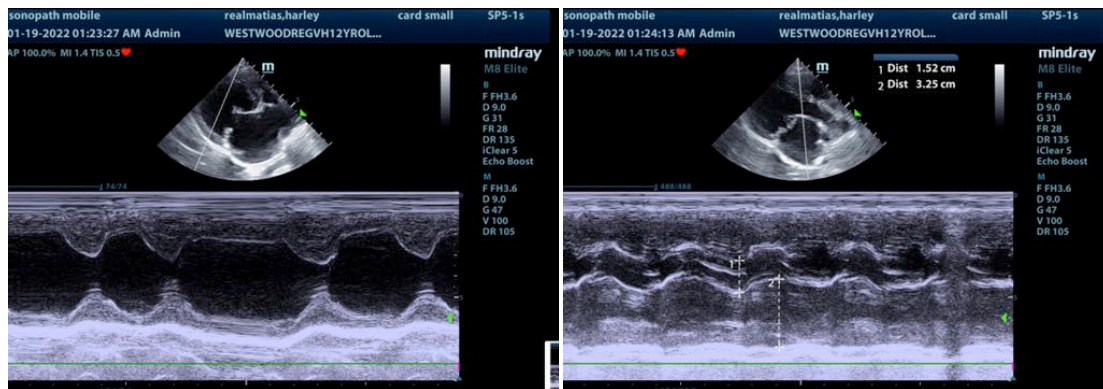
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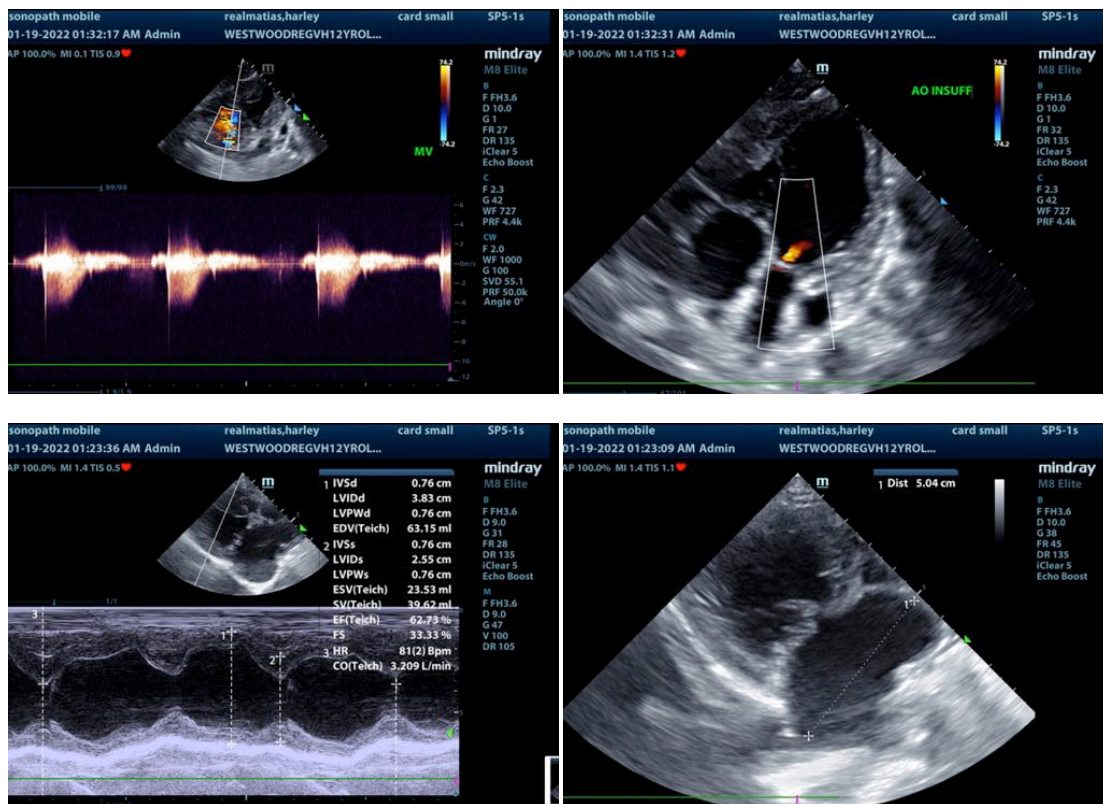
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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