

**PATIENT PRESENTING CLINICAL SIGNS**

Oreo Rosas History: Coughing. Grade IV / VI LDSM. Current meds: pimobendan 2-5mg, furosemide 12.5 mg, enalapril 2-5mg  
 Abnormal PE/Chem/CBC/UA Results: mild ALP elevation

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

**BREED**

Yorkie

The echocardiogram in this patient presented moderate persistent volume overload in the left atrium and left ventricle with minor mitral valve prolapse. Complete filling of the left atrium was noted on color flow assessment of the mitral valve. Minor tricuspid insufficiency was noted. The contractility appeared adequate. There was no evidence of pericardial effusion; however, minor comet tail lung pattern was noted in the periphery. Assessment for any pulmonary edema or alveolar disease is indicated.

**SEX**

Spayed Female

**AGE**

12 years

**WEIGHT**

11.4 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Jessica Miller, RDMS

**HOSPITAL NAME**

Ridge Road AH

**REFERRING VET**

Dr. Pathak

**INVOICE**

91132

**DATE**

8/11/21

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	5.37		2.03	2.05	53	85	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	130	1.48	0.99	11.4 lbs	3.84	2.95	

**ULTRASONOGRAPHIC FINDINGS**

Persistent mitral insufficiency.

Moderate volume overload despite current therapeutic protocol.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

of BUN, creatinine, USG, chest radiographs and blood pressure as well as clinical exam is ideal in 7-10 days. Basal respiratory rate should be <20/min. A recheck echocardiogram is recommended in 1-3 months. There is concern for decompensation in this patient based on the current medication protocol and sonographic parameters. Therefore, adjustment of medications would be recommended. I recommend adding Spironolactone at 1-2 mg/kg b.i.d. ensuring Lasix at 2 mg/kg. Assessment



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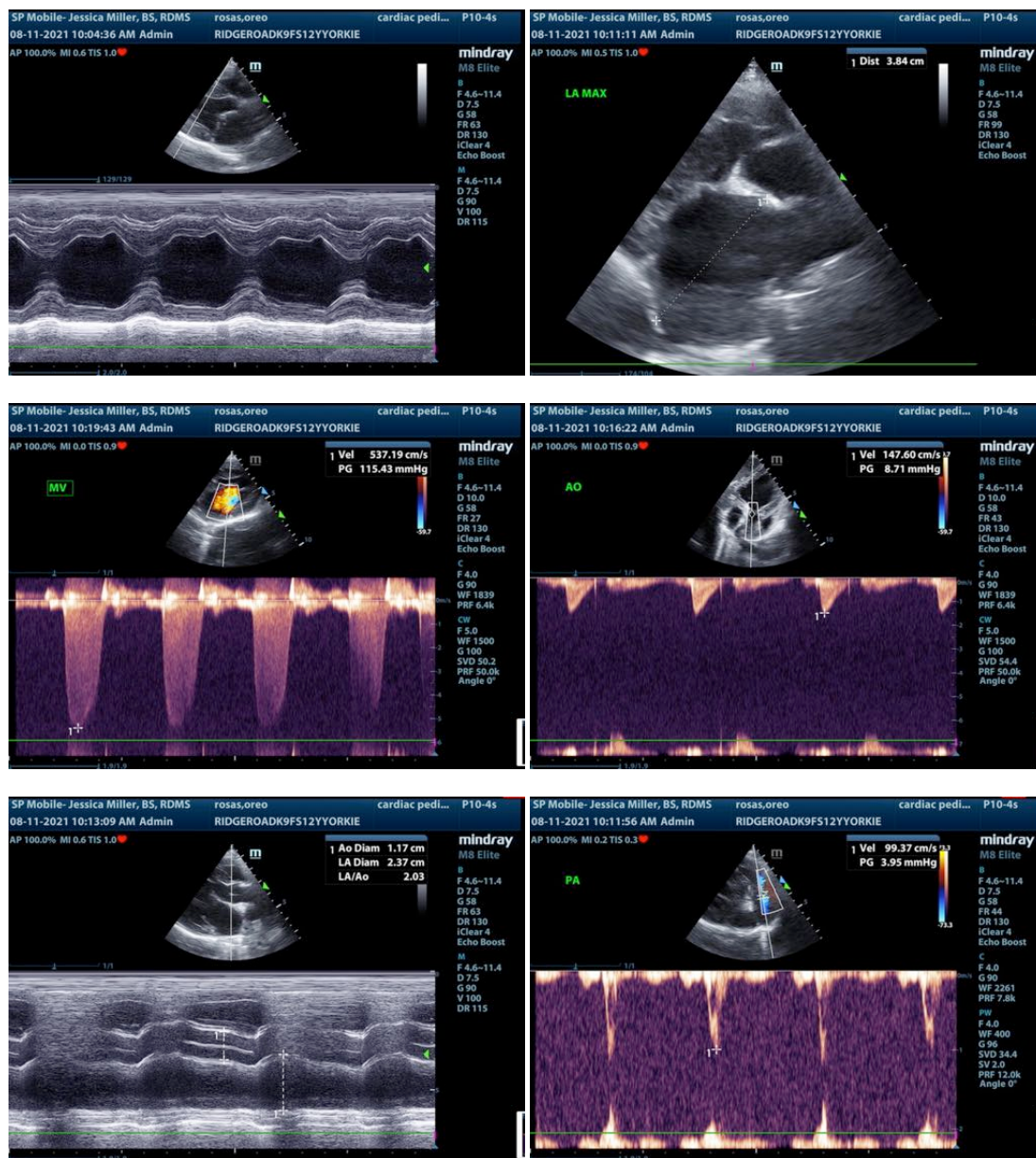
Dr. Pathak

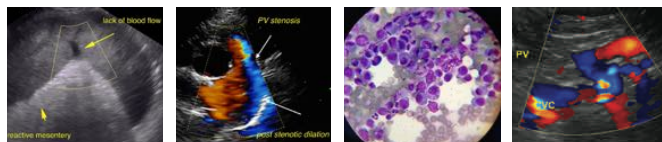
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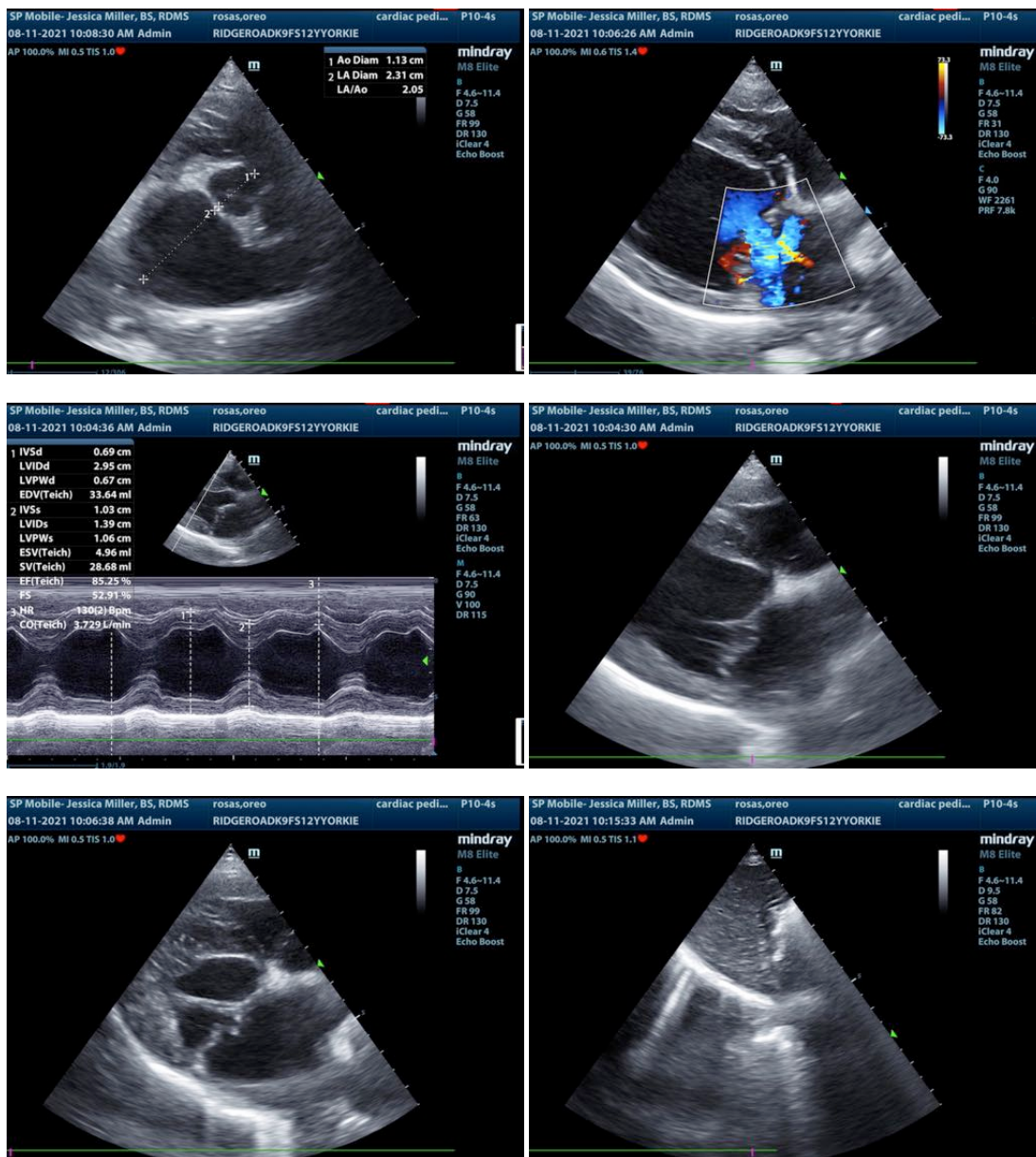
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
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