



**PATIENT PRESENTING CLINICAL SIGNS**

Bella Prentiss

History: Visiting from out of the area. Reported to have a history of CHF with exercise intolerance, cough following jumping, and syncopal episodes. Eupneic at the time of exam. Current Medications: Pimobendan 1.25 mg BID, Enalapril 1.25 mg BID, Furosemide 18.75 mg BID

**SPECIES**

Abnormal PE/Chem/CBC/UA Results: Grade 5/6 systolic murmur Radiographs show moderate to severe cardiomegaly with mild pleural fissure lines No significant laboratory abnormalities. Renal parameters high normal reference range

Canine

**BREED**

Chihuahua

**SEX**

Spayed Female

**AGE**

18 years

**WEIGHT**

11.5 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Green

**HOSPITAL NAME**

Healing Spirit

**REFERRING VET**

Dr. Green

**INVOICE**

93162

**DATE**

11/16/21

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The echocardiogram in this patient revealed persistent volume overload in the left atrium and left ventricle with severe mitral valve prolapse. No pericardial or pleural effusion was noted. The hepatic veins appeared dilated with secondary ascites. This is likely owing to pulmonary hypertension. Right atrial enlargement was also noted.

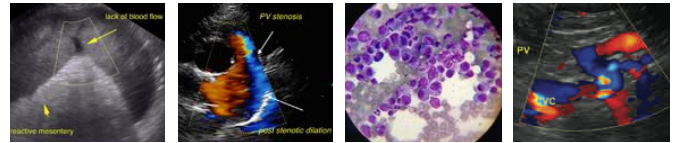
CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			NM	2.0			0.1
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LA 2D short axis Base view (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				11.5 lbs	3.37		

**ULTRASONOGRAPHIC FINDINGS**

Decompensating valvular disease with significant volume overload of both atria and left ventricle with emerging right-sided cardiac failure.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I recommend adding to the current protocol Spironolactone at 1-2 mg/kg b.i.d., Sildenafil at 1 mg/kg b.i.d. increasing to 1.5 mg/kg b.i.d. after 2 weeks. A recheck echocardiogram is recommended in 4 weeks. The prognosis long term is guarded. The patient is at risk for sudden death.



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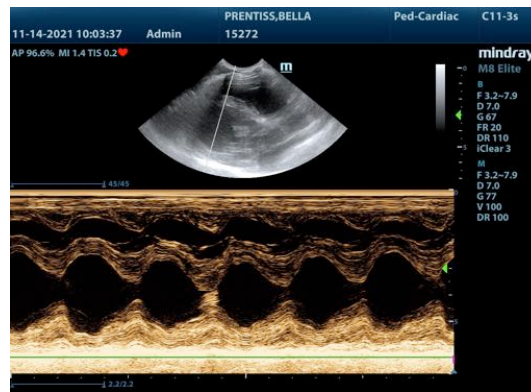
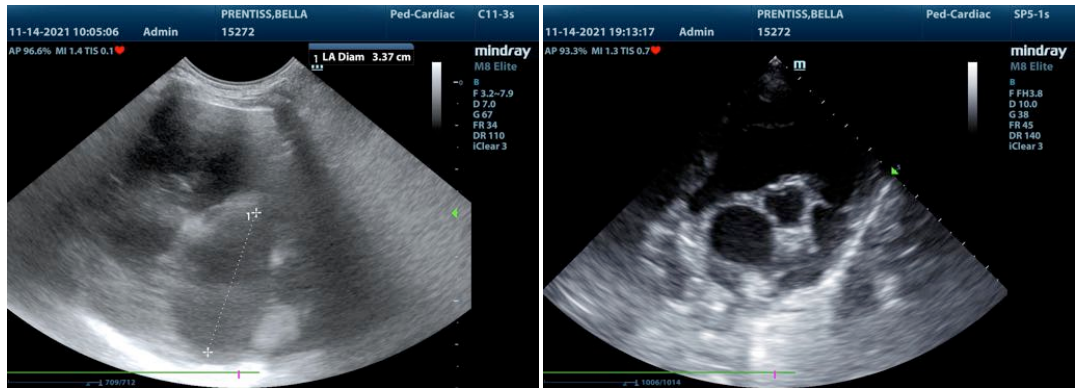
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**IMAGING PERFORMED BY**

Dr. Green

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.

**HOSPITAL NAME**

Healing Spirit

**Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com**  
info@SonoPath.com

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