



**PATIENT PRESENTING CLINICAL SIGNS**

Quincy Brown Hayes

Recheck sonogram after initial echo in 8/2021. Is on Pimobendan as recommended. Patient attitude, energy level is unchanged.  
Heart murmur grade 3-4/6 left systolic. BCS 6.5/9 ALT - 260 ALP - 672 (846 in August)

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

**BREED**

Terrier Mix

The **left atrium** was mildly enlarged in this patient. **Mitral** valve insufficiency was noted on color flow Doppler with slight prolapse. 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. Trivial **tricuspid** insufficiency was noted. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** 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. The cranial **mediastinum** and **pericardial** and **extra-cardiac** regions were free of masses in the visible window. The hepatic veins were not dilated.

**SEX**

Neutered male

**AGE**

10 years

**WEIGHT**

14.4 kg

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Stegemoller

**HOSPITAL NAME**

North Idaho AH

**REFERRING VET**

Dr. Mehra

**INVOICE**

95031

**DATE**

1/5/22

**ULTRASONOGRAPHIC FINDINGS**

B2 valvular disease.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The left atrial size has slightly increased. It is debatable on whether further therapy would be recommended as there is no consensus. If the patient is clinically stable without increased respiratory rate then I do not recommend any further therapy other than the current Pimobendan as this is mid

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			1.15	1.8	35		0.1
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	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			1.2	14.4 kg	4.12 max	2.8	



**PATIENT**

Quincy Brown Hayes

level stage B2 valvular disease. If any exercise intolerance, increased respiratory rate >20/minute or murmur grade increases then a recheck echocardiogram is warranted at that time. Otherwise, a recheck echocardiogram is recommended in 6 months.

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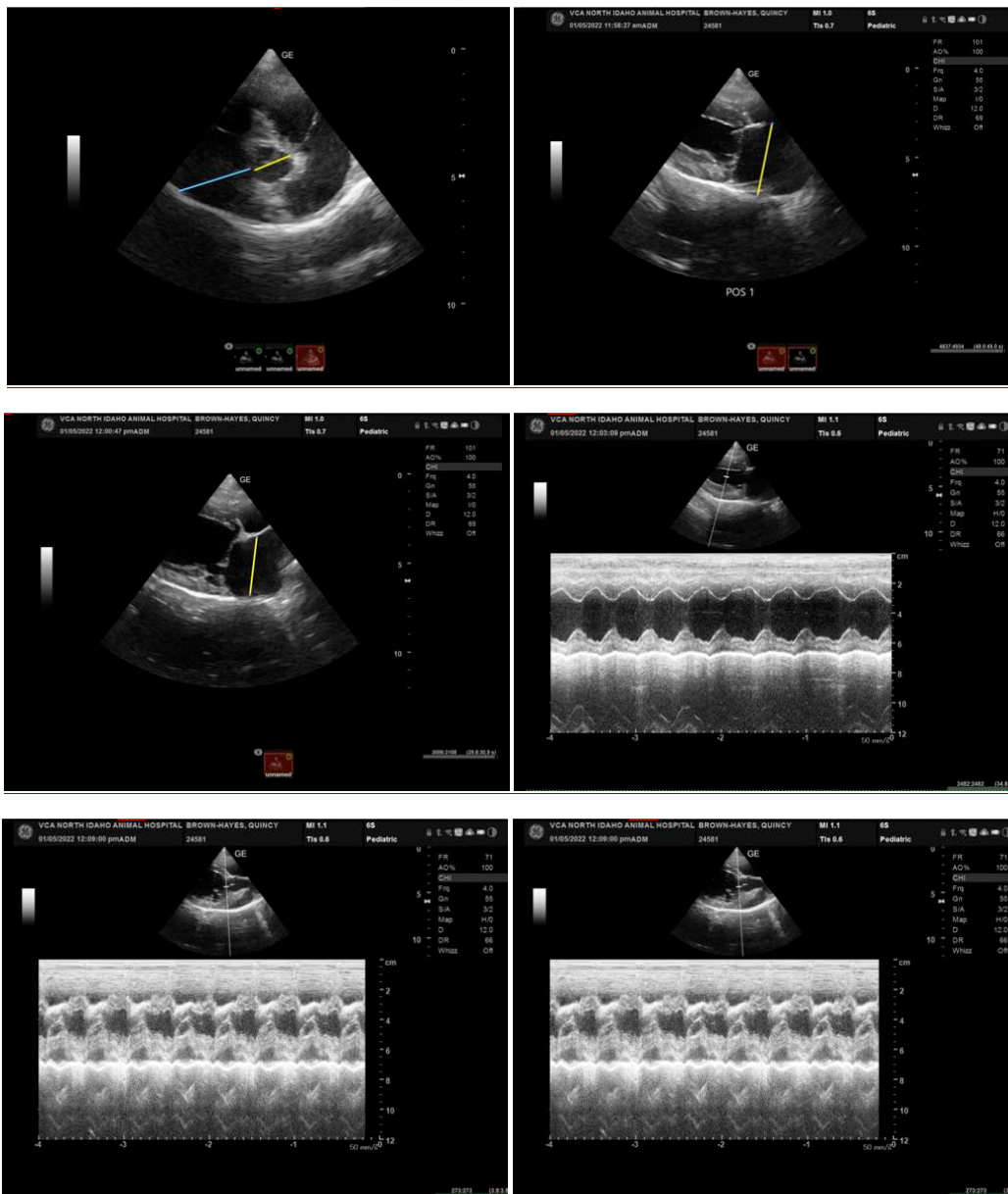
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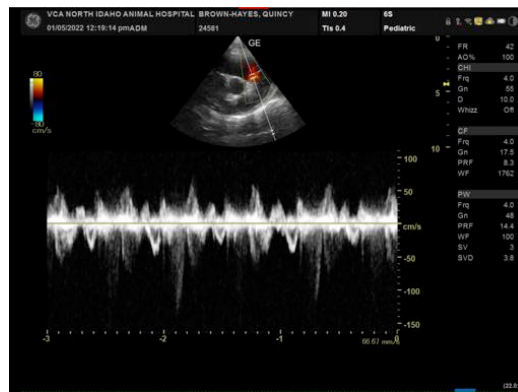
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
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