



**PATIENT PRESENTING CLINICAL SIGNS**

Hank Winkelmann

History: 6 month recheck echocardiogram. "Mitral insufficiency, mild left atrial enlargement. The left atrial size is excessive primarily in the LA max and LA:AO heart base. Early stage B2 valvular disease." Radiograph VHS 11.1, started pimobenden 5mg bid (.57mg/kg/day). He is doing quite well. Abnormal PE/Chem/CBC/UA Results: PE: Stage I Dental disease, sclerosis or lenses normal for age, II/VI systolic cardiac murmur. No recent labs. Blood Pressure Today: 128mmHg

**SPECIES**

Canine

**BREED**

Red Heeler Mix

**SEX**

Neutered male

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The echocardiogram in this patient presented mild volume overload of the left atrium and left ventricle. The contractility appeared to be adequate. Mitral and tricuspid insufficiency was noted. Mild deviation of the left atrial septum was noted owing to minor volume overload. The hepatic veins were not dilated. No pericardial effusion or peripheral thoracic disease was present.

**AGE**

12 years

**WEIGHT**

38 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Anderson

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	5.33	2.0	1.3	1.56	33	31	NM
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	BELOW	BELOW	BELOW	BELOW
PATIENT		1.98	0.86	38 lbs	4.89	4.78	

**HOSPITAL NAME**

Elizabeth AH

**ULTRASONOGRAPHIC FINDINGS**

Stable valvular disease with mild left atrial enlargement.

**REFERRING VET**

Dr. Anderson

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Although there is no consensus on the further use of medication such as ace inhibitor at 0.5 mg/kg s.i.d. to b.i.d. along with synergistic Spironolactone at 1-2 mg/kg b.i.d. however, this can be considered. Recheck echocardiogram is recommended in 6 months or earlier if the sleeping respiratory rate is > 25/minute or clinical signs such as cough initiate.

**INVOICE**

32248

**DATE**

8/9/22



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**REFERRING VET**

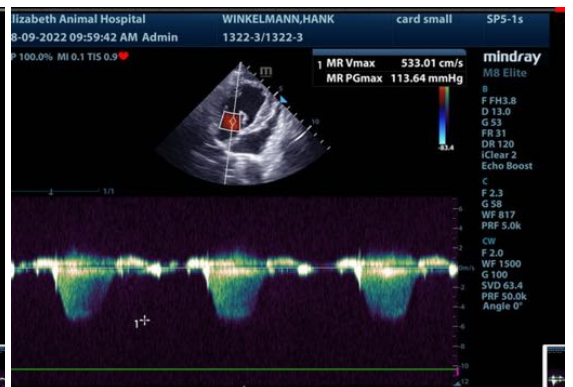
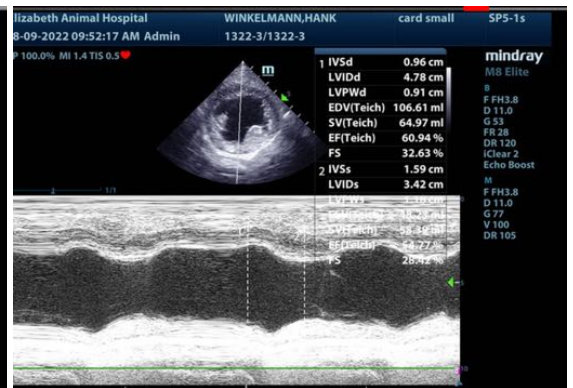
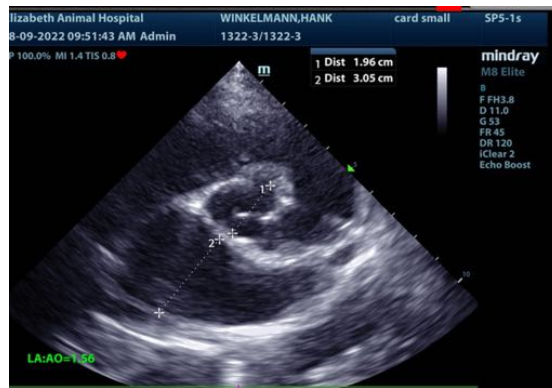
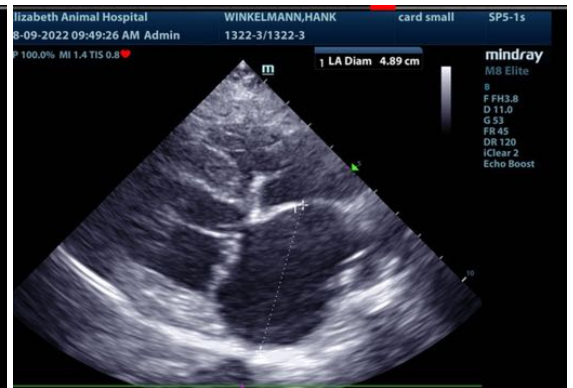
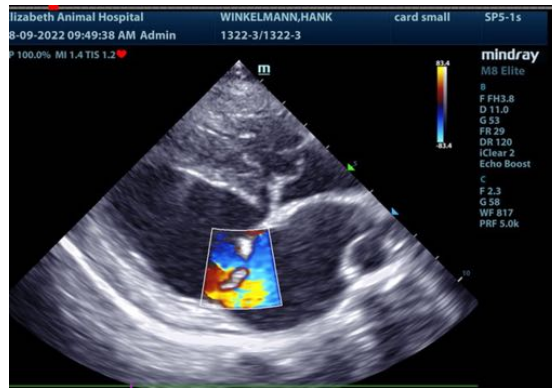
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**SPECIES**

Canine

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.

**BREED**

Red Heeler Mix

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

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