



**PATIENT**

Tito Greiner

**SPECIES**

Canine

**BREED**

Golden Retriever

**SEX**

Neutered Male

**AGE**

7 Years 3 Months

**WEIGHT**

91.7 lbs

**INTERPRETED BY**

Eric Lindquist, DMV,  
DABVP(CFM), Cert.  
IVUSS

**IMAGING PERFORMED BY**

Chloe Lowe CVT

**HOSPITAL NAME**

Black River Veterinary  
Hospital

**REFERRING VET**

Dr. Vax

**INVOICE**

15668

**DATE**

05/01/26

**PRESENTING CLINICAL SIGNS**

Focal gallop sound right mid chest. Normal rate and rhythm. Asymptomatic.

Abnormal PE/Chem/CBC/UA Results: Anaplasma + (Chronic) CBC/Chem 1/2026 WNL

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	--	--	1.2	1.1	28	56	0.5
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (lbs)	LAD LA MAX 4 Chamber	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	129	1.34	0.93	91.7	4.1	3.5	--

**Cardiac Presentation**

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. The **left ventricle** presented normal 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. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed trivial pulmonic insufficiency. The pulmonary artery was slightly dilated in this patient yet not clinically significant. 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.

**ULTRASONOGRAPHIC FINDINGS**

- Structurally unremarkable heart with slight pulmonary artery dilation and slight pulmonic insufficiency- not clinically significant.



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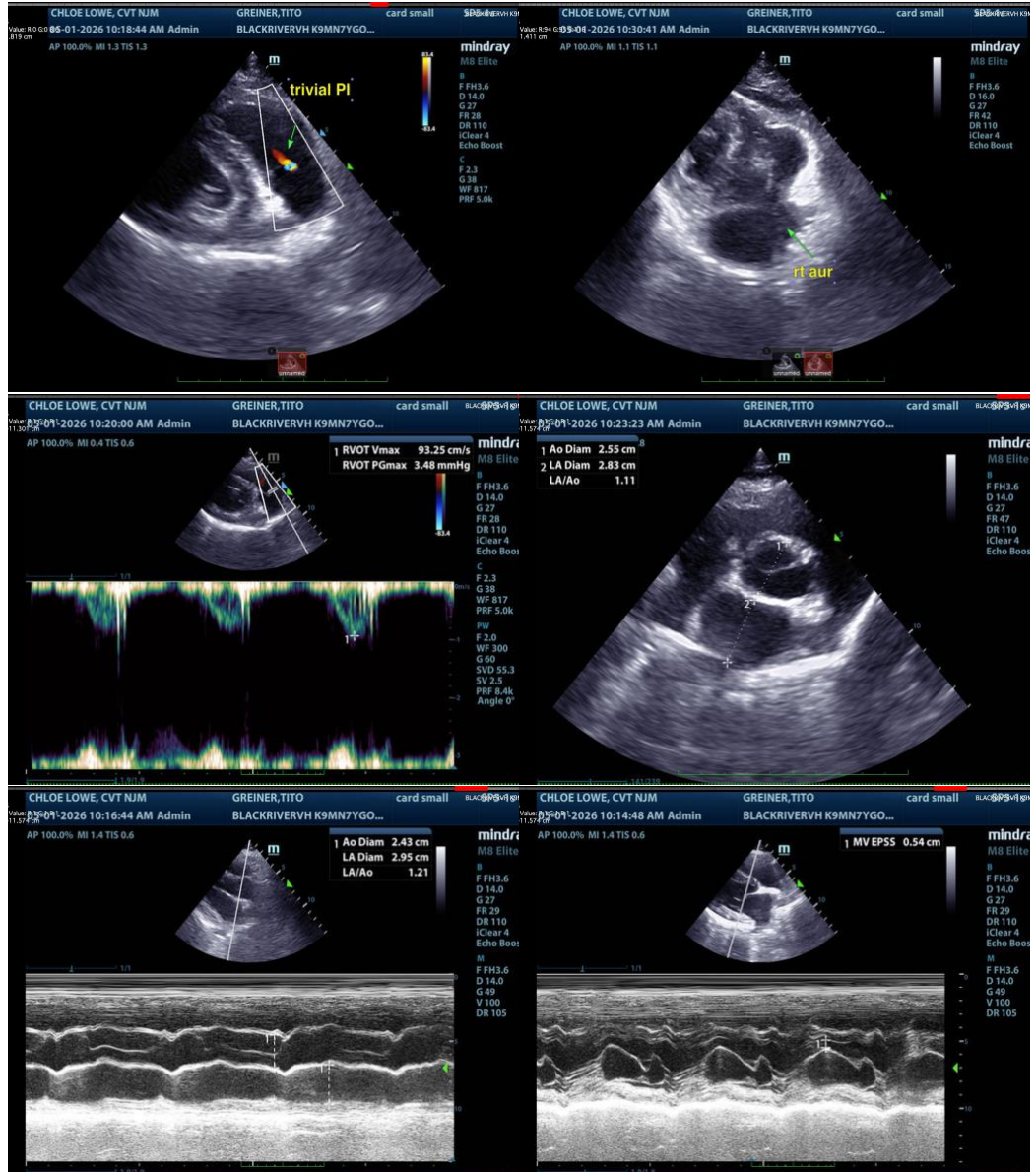
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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No therapies are recommended at this time.





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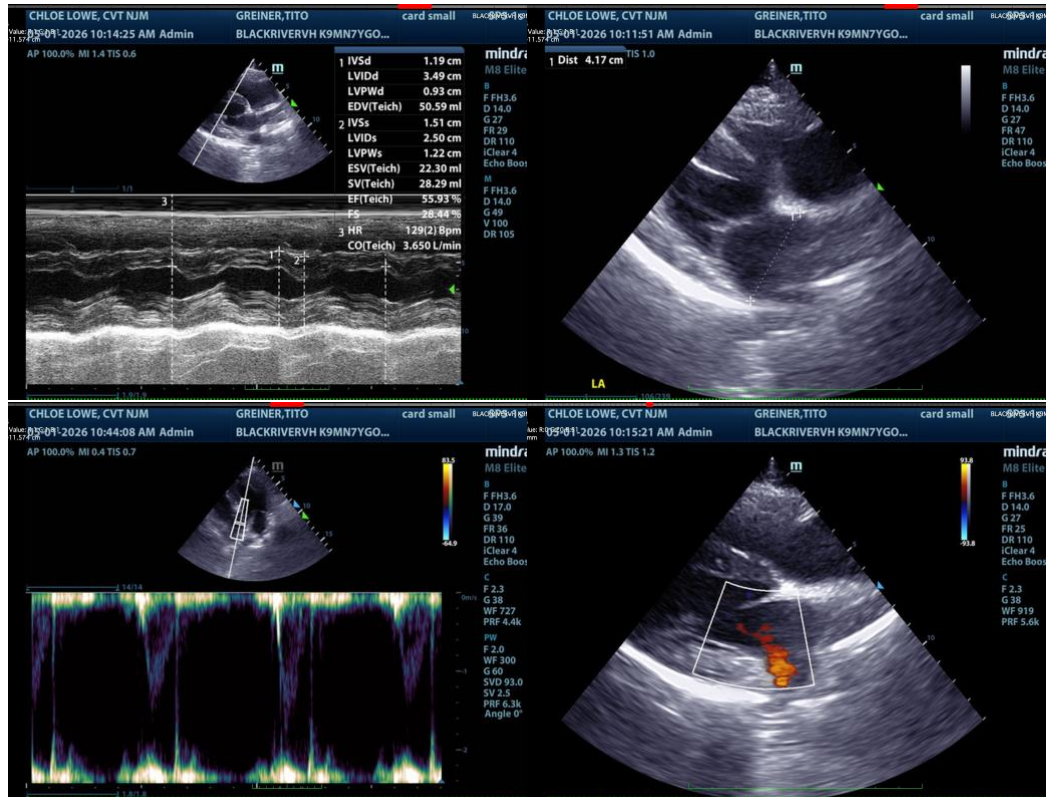
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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(CFM), Cert. IVUSS,**

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