



**PATIENT PRESENTING CLINICAL SIGNS**

Cody Wildrick History: Grade III/VI heart murmur on 2/22/22, asymptomatic, no current meds.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Canine

**BREED**

Golden Retriever

**SEX**

Male

**AGE**

2 years

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. **Mitral** valve insufficiency is noted in this patient and measured 5.0 m/sec. 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. Minor **aortic** insufficiency was noted in this patient. 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 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.

**WEIGHT**

71.5 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

Dr. T Vet Care

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			1.2	1.32	31	59	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				
PATIENT		2.84	1.52	71.5 lbs	4.48	5.1	

**REFERRING VET ULTRASONOGRAPHIC FINDINGS**

Dr. Turk Elevated left ventricular outflow velocity. This is consistent with minor form of subaortic stenosis or hyper contractile state with secondary aortic insufficiency.

**INVOICE** Mitral insufficiency, centralized and mild, compensated.

96499 Possible very minor form of subaortic stenosis.

**DATE**

3/1/22



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**REFERRING VET**

Dr. Turk

**INVOICE**

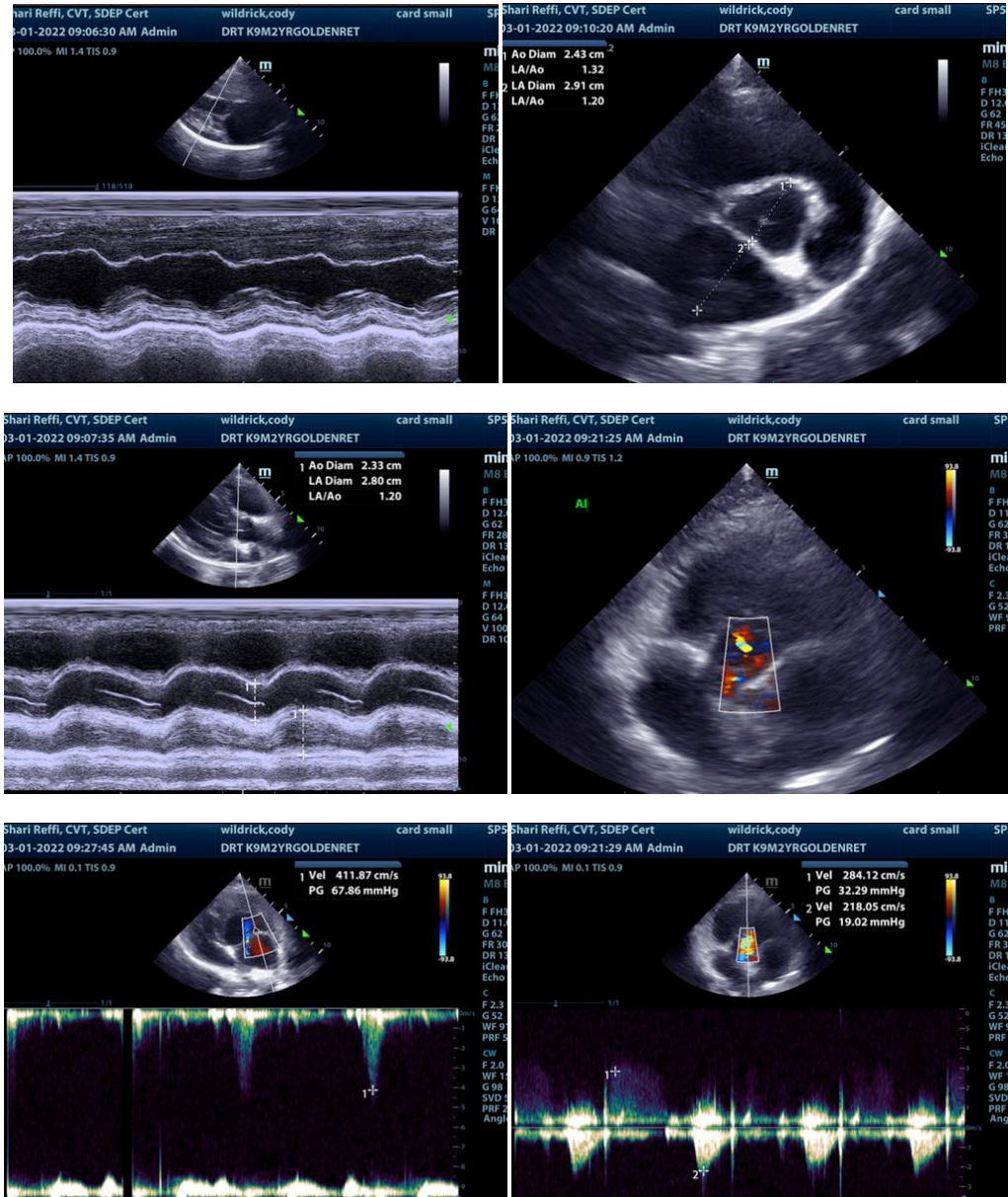
96499

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Structurally the aortic valve was largely unremarkable. Therefore, there is a mild potential for subaortic stenosis. Recheck echocardiogram is recommended in a year or earlier if murmur grade increases or clinical signs initiate. Blood pressure measurements are indicated. No therapy is indicated.





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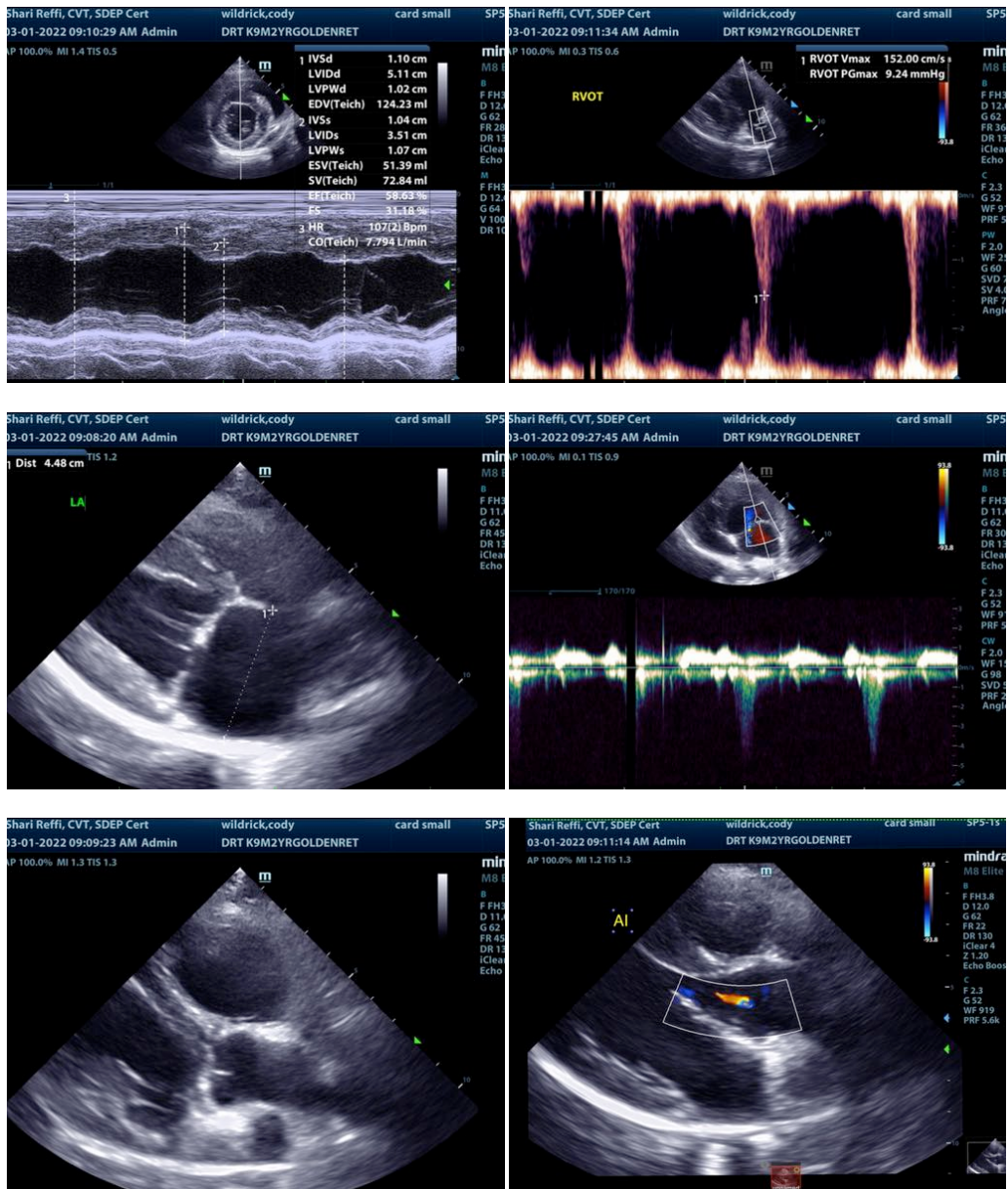
Dr. Turk

**INVOICE**

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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, Cert. IVUSS, CEO of SonoPath.com**  
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