



**PATIENT**

Rylee Beard

**SPECIES**

Canine

**BREED**

English Springer

**SEX**

Male Neutered

**AGE**

13 years

**WEIGHT**

61lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

Tasha

**HOSPITAL NAME**

Dillsburg Veterinary  
Clinic

**REFERRING VET**

Dr. Pryor

**INVOICE**

28561

**DATE**

1/25/23

**PRESENTING CLINICAL SIGNS**

History: Chronic cough/wheezing. Grade 4/6 murmur. VHS: 13.5. BP: 150, 154, 150mmHg.  
-ECG report (Idexx): Sinus rhythm with VPCs.  
-CXR report (Idexx): Cardiomegaly. No CHF.

**ECHOCARDIOGRAM FINDINGS**

Limited 2D and mmode imaging is available. Diffuse thickening of mitral valve leaflets (anterior>posterior) with no prolapse into the left atrial lumen. Moderate eccentric mitral regurgitation is suspected, although unable to be visualized. Moderate left atrial dilation. Mildly increased LV diameter with adequate systolic function. The right heart appears normal in dimension. The tricuspid valve is not assessed. No pericardial or pleural effusion noted. No cardiac tumors observed.

**CARDIAC CHART**

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
<b>NORMAL PARAMETER</b>	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
<b>PATIENT</b>	NM	NM	NM	1.6	30	58	NM
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)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
<b>PATIENT</b>	NM	NM	NM	27.7	3.8	4.7	3.3
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
<b>BODY WEIGHT DEPENDENT PARAMETERS</b>							
<i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>							
Adapted from June Boon, Veterinary Echocardiography, 1998				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435				10	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)
Hansson et al, Vet Rad and Ultrasound 2002				15	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)
Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995				20	2.02 (1.9)	4.14 (2.2)	2.80 (2.0)
				25	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)
				30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
				35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
				40	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)
				50	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Chronic degenerative valve disease causing moderate mitral regurgitation is suspected. This is not considered a complete study; however, that is the presumed diagnosis. Moderate left atrial enlargement indicates there may be risk for complication going forward. No obvious additional issues are identified; however pulmonary hypertension, etc. may still be present.

Given these findings., Pimobendan is indicated in this patient as below. Assessment of progression in the future will help predict long term outcome, however prognosis is guarded at this stage (B2).

While mainstem bronchi compression may certainly be contributing to a chronic increase in coughing, other primary airway contributions should also be considered (tracheal collapse,



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COPD/chronic bronchitis, etc.). Consider hydrocodone for any mechanical component due to cardiomegaly. Screening chest radiographs are recommended.

**SPECIES**

Canine

No comment can be made on the arrhythmia without an ECG tracing; however, moderate disease may be enough to explain development of VPCs. Follow up and treatment should be dictated by the ECG report.

**BREED**

English Springer

Omega fatty acid supplementation and mild salt restriction may also be of some long term benefit. Monitor for development of a progressive cough, labored breathing, exercise intolerance or collapse episodes.

**SEX**

Male Neutered

Anesthesia is not advised prior to further evaluation of the arrhythmia.

**AGE**

13 years

**PLAN**

Consider referral for a complete echocardiogram if warranted. Institute heart muscle support Pimobendan 0.3mg/kg PO q12h. Follow up and treatment for the arrhythmia as dictated by the ECG report. Consider hydrocodone as discussed.

**WEIGHT**

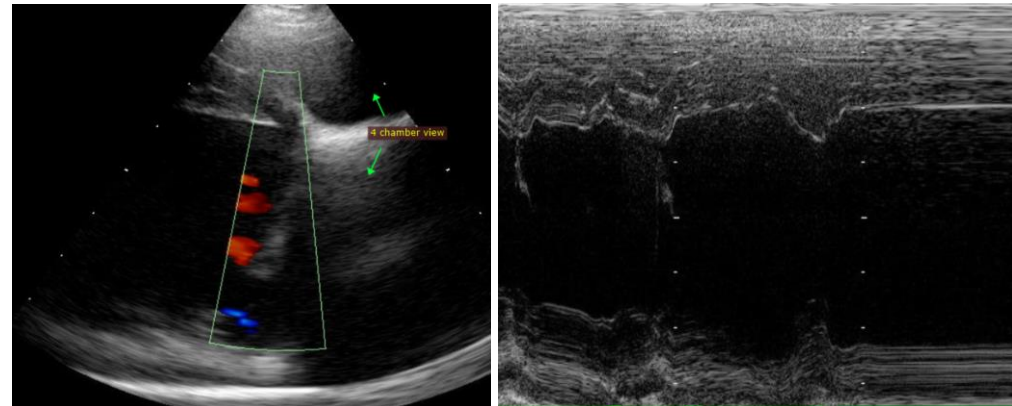
61lbs

Recommend monitor for progression with a recheck echocardiogram in 6 months, sooner if any development of clinical signs.

**IMAGES**

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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.**

**INVOICE**

28561

Thank you for this referral. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

**DATE**

1/25/23

**Maggie Machen Lamy, DVM**

**Diplomate of the American College of Veterinary Internal Medicine (Cardiology)**

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