



**DATE CLINICAL BACKGROUND & STUDY DETAILS**

4.10.26

**PATIENT**

Lady Arnold

**SPECIES**

Canine

**BREED**

Beagle Mix

**SEX**

FS

**AGE**

9.2.13

**WEIGHT**

31.3lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**HOSPITAL NAME**

Bel Air VH

**REFERRING VET**

Dr. Schmidt

**INVOICE**

47523

**History:** Recheck echo.

**Current medications:** Pimobendan 5mg- 1 in am 1/2 in pm

**Sedation used:** Not required to complete full diagnostic ultrasound.

**Pertinent previous ultrasound results:** (10/2024 MML): CVD B2; systolic dysfunction. Moderate MR, mild to moderate LAE, normal LV, borderline function: 28%. LA: 2.7, LV: 3.6/2.6.

**STAT:** Not requested.

**Imaging performed by:** Stephanie Warga RDCS, RVT.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. Diffuse thickening of mitral valve leaflets (anterior>posterior) with prolapse into the left atrial lumen. Moderate eccentric mitral regurgitation with mild to moderate left atrial dilation. Normal MR velocity. Normal LV diameter with adequate myocardial dysfunction. The tricuspid valve appears subjectively normal, with moderate tricuspid regurgitation. Velocity consistent with early pulmonary hypertension. Normal right atrial and ventricular diameter. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities. No aortic or pulmonic insufficiency. No pericardial or pleural effusion noted.

**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>	5.5	3.0	NM	1.3	33	63	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>	140	1.2	1.0	14.2	2.5	3.3	2.2
*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>				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
*Note: All measurements based upon multi-modal images and methods. An average value is reported.				10	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)
				15	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)
				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)

Adapted from June Boon, Veterinary Echocardiography, 1998  
Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435  
Hansson et al, Vet Rad and Ultrasound 2002  
Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995

### **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Persistently stable findings. Previously noted borderline dysfunction appears normal in this image set, likely suggesting daily variability. The LA and LV dimensions are unchanged and no additional issues have developed. Mild pulmonary hypertension is also similar to previous.

Given these findings, continue Pimobendan going forward. Continued assessment of progression is recommended, with a guarded prognosis going forward (stage B1/B2). Patient may be at risk for development of CHF, arrhythmias, and/or sudden death going forward.

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.

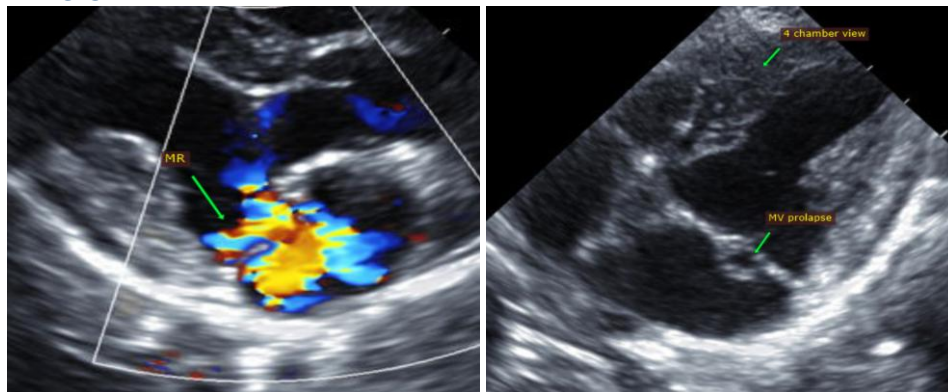
Anesthetic risk remains mildly elevated. Cardiac protective drug choices (opioid/benzodiazepine premedication, Propofol or alfaxalone induction, iso or sevo gas) are recommended. Monitor for arrhythmias, hypotension, and hypoxia both intra and post-operatively and intervene as necessary. Judicious IV fluid rates are recommended to avoid fluid overload. Avoid heart rate stimulating drugs such as atropine unless clinically indicated.

### **PLAN**

Baseline BP recommended every 6 months. Continue Pimobendan 0.3mg/kg PO q12h.

Recommend monitor for progression with a recheck echocardiogram in 6-9 months, sooner if any development of clinical signs.

### **IMAGES**



**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. 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.

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