


PATIENT

Leela Klugman

PRESENTING CLINICAL SIGNS

History: Recheck echo. Diagnosed with CVD B1 March 2021, doing well.

SPECIES

Canine

BREED

Minature Schnauzer

SEX

Female Spayed

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Mild diffuse thickening of mitral valve leaflets without significant prolapse into the left atrial lumen. Moderate eccentric mitral regurgitation with moderate left atrial dilation. Normal MR velocity. Mild LV dilation with adequate myocardial function. The tricuspid valve appears mildly thickened with mild tricuspid regurgitation. Borderline velocity. Normal right atrial and ventricular diameter and morphology. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities with laminar flow. No obvious aortic or pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

CARDIAC CHART

	CANINE CARDIAC PARAMETERS	MR VMAX	TR VMAX	LA/AO	LA/AO	FS	EF	EPSS
		(m/s)	(m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
AGE		4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
8 years								
WEIGHT		5.2	2.7	1.7	1.8	41	74	0.1
22lbs								
INTERPRETED BY	CANINE CARDIAC PARAMETERS	HR	AV VMAX	PV MAX	BODY WEIGHT	LA	LVIDd	LVIDs
		(BPM)	(m/s)	(m/s)	(kg)	2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
Maggie Machen Lamy, DVM, DACVIM (Cardiology)		50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
		NM	1.3	1.0	10.0	2.5	2.9	1.7
		*Normal chamber parameters expressed as a mean value (SD)			3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
		BODY WEIGHT DEPENDENT PARAMETERS			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)
		Adapted from June Boon, Veterinary Echocardiography, 1998			25	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)
		Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435			30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
		Hansson et al, Vet Rad and Ultrasound 2002			35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
		Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995			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)

INTERPRETED BY

 Maggie Machen Lamy,
 DVM, DACVIM
 (Cardiology)

IMAGING PERFORMED BY

 Jacquie Pankatz,
 DVM

HOSPITAL NAME

 Mountain Vista
 Veterinary Hospital

REFERRING VET

Dr. Pankatz

INVOICE

23060

DATE

3/12/22

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Chronic degenerative valve disease persists with moderate mitral and mild tricuspid regurgitation. Compared to the prior study, there is evidence of progression with an increase in left heart dimensions and quantity of MR. Moderate left atrial enlargement indicates there is relatively low risk for imminent complication, however risk for progression to spontaneous congestive heart failure in the future is elevated. No additional issues are identified, such as pulmonary hypertension.

Given the risk for progression and results of the EPIC trial, 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).



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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.

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Once on the medication for 3-5 days, anesthetic risk is considered 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.

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SEX

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PLAN

Baseline BP recommended. Institute heart muscle support Pimobendan 0.25-0.3mg/kg PO q12h.

AGE

8 years

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

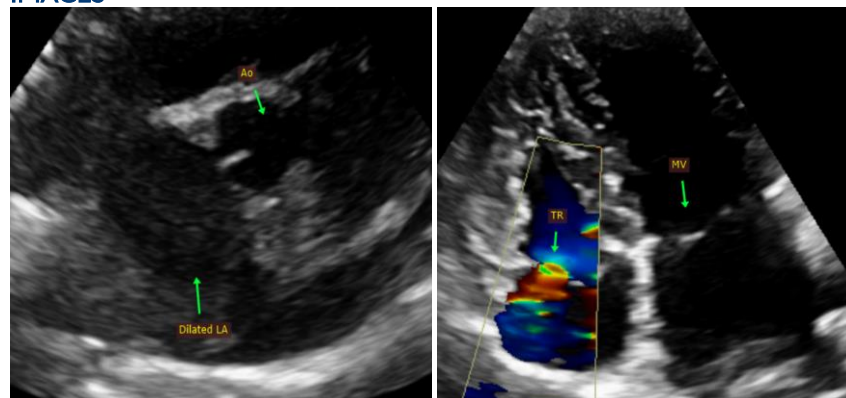
WEIGHT

22lbs

IMAGES

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)



IMAGING PERFORMED BY

Jacque Pankatz,
DVM

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.

HOSPITAL NAME

Mountain Vista
Veterinary Hospital

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.

REFERRING VET

Dr. Pankatz

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