


PATIENT

Evangeline Slaney

SPECIES

Canine

BREED

Chihuahua

SEX

Female Spayed

AGE

7 years

WEIGHT

5.1lbs

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM (Cardiology)

IMAGING PERFORMED BY

Kelly Reschny, RVT

HOSPITAL NAME

Maples Animal Hospital

REFERRING VET

Dr. Kazienko

PRESENTING CLINICAL SIGNS

History: Recheck echo. Increased respiratory rate over the weekend.

-Current medications: Furosemide 20mg 1/4 TID, benazepril 5mg 1/4 BID, vetmedin 1.25mg 1/2 TID.

-Pertinent previous echo findings (2/2021 MML): Severe MR, severe LAE, moderate LVE, trace TR. LA: 2.2, LV: 2.6.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The mitral valve is diffusely thickened with significant prolapse into the left atrial lumen. There is severe eccentric mitral regurgitation present. The MR velocity is normal. There is severe left atrial enlargement. There is severe left ventricular dilation. Left ventricular systolic function is hyperdynamic. No right atrial or ventricular dilation (subjective). Mild thickening of the tricuspid valve with mild TR. Normal velocity. There is normal systolic flow velocity across the aortic valve. The aortic valve appears trileaflet with normal mobility. The main pulmonary artery is normal in diameter. The pulmonic valve is normal in appearance. No pericardial/pleural effusion or cardiac masses are seen.

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)	
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6	
PATIENT	4.2	2.5	2.3	2.9	50	94	0.34	
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)	
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW	
PATIENT	166	1.1	1.1	2.3	2.6	3.0	1.5	
*Normal chamber parameters expressed as a mean value					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)
<i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>					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)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Chronic degenerative valve disease persists with evidence of progression. The degree of left heart enlargement has continued to increase and is now markedly dilation. The TR has slightly progressed as well; however, the pulmonary pressures appear normal. No additional issues are identified.

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Given the recent clinical signs, the diagnosis is likely recurrent CHF; however, repeat chest radiographs are always recommended to confirm the diagnosis. The current medications listed



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include TID Lasix therapy. If the patient has responded well to this, no further change is indicated. If this a chronic dose, an increase is certainly recommended. Additionally, Spironolactone is recommended for long-term benefit. No additional changes are indicated. If the patient is tachypneic in hospital, consider injectable Lasix and/or hospitalization depending on patients' stability.

Monitoring of sleeping respiratory rates will be paramount to screen for congestive heart failure at home. Cough suppression to improve QOL can also be considered (hydrocodone, 0.2-0.4mg/kg up to q4-6h PRN) for any residual mechanical cough in the face of normal sleeping respiratory rates.

The average survival time of canine patients with active pulmonary edema is 8-9 months on medications; however, they generally are able to maintain a good quality of life for that period. Patient will always be at risk for recurrent CHF, development of arrhythmias/LA tear, syncope and/or sudden death in the future.

Omega fatty acid supplementation and mild salt restriction may also be of some long-term benefit. Monitor for acute progression of the cough, labored breathing, exercise intolerance or collapse episodes in the future.

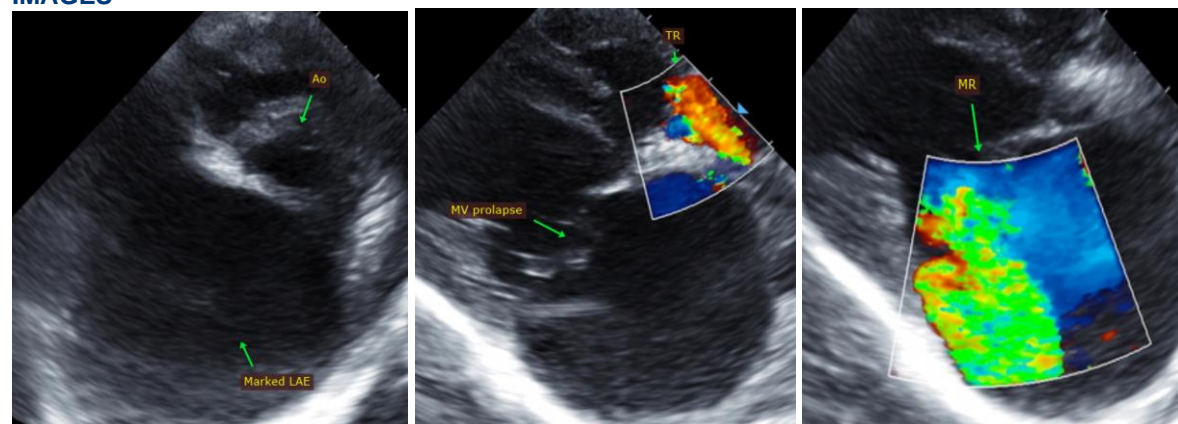
PLAN

Continue Pimobendan and Benazepril as prescribed. If the TID Lasix is a recent adjustment and the patient has improved, continue this going forward. If the patient remains tachypneic despite this dose, increase to 10mg am, 5mg mid-day and 5mg pm. Consider injectable Lasix and/or hospitalization depending on stability. Institute spironolactone 1-2mg/kg PO q12h.

Monitor SRRs at home. Monitor renal values and BP in 1-2 weeks, then every 3-4 months lifelong.

Recommend conservative monitoring with a recheck echocardiogram in 6 months, sooner if any development of associated clinical signs occurs in the interim.

IMAGES





PATIENT

Evangeline Slaney

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.

SPECIES

Canine

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.

BREED

Chihuahua

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

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