



PATIENT

Amelia Cathey

SPECIES

Canine

BREED

Boxer/Pitbull Mix

SEX

Female Spayed

AGE

9 years

WEIGHT

47lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Nicole Gotfredson

HOSPITAL NAME

Buffalo Veterinary
Clinic

REFERRING VET

Dr. G Gotfredson

INVOICE

26906

DATE

10/14/22

PRESENTING CLINICAL SIGNS

History: Dog was referred for enlarged heart on radiographs. Grade 6/6 heart murmur with irregular heartbeat. Was put on Lasix 40mg BID, and enalapril 10mg BID. Occasionally coughing. Does not seem to have any exercise intolerance. Owner reports dog has had a heart murmur from a young age.

ECHOCARDIOGRAM FINDINGS

2D imaging is available (additional imaging non-diagnostic). Mild thickening of mitral valve leaflets with prolapse into the left atrial lumen. Severe left atrial dilation. Normal MR velocity. Severe LV dilation with adequate myocardial function. The tricuspid valve appears normal. Moderate right atrial and ventricular diameter and morphology. No pericardial or pleural effusion noted. No obvious cardiac masses.

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	NM	NM	NM	2.4	37	68	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)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
PATIENT	NM	NM	NM	21.3	6.5	8.1	5.3
*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)
<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

Limited imaging is available which is unfortunately non-diagnostic. What can be said is there is significant 4 chamber dilation with adequate function, ruling out typical DCM pathology. Other possibilities should be considered such as advanced valve disease, congenital defects given the history of the murmur, etc. An arrhythmia is suspected, and an ECG is recommended.

While hemodynamically significant disease is certainly present, it is difficult to make recommendations without a confirmed diagnosis. Reasonable to continue cardiac support as below, with referral to a facility with an attending Cardiologist.

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-



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0.4mg/kg up to q4-6h PRN) for any residual mechanical cough in the face of normal sleeping respiratory rates. Prognosis is guarded to poor. Patient will always be at risk for recurrent CHF, development of arrhythmias/LA tear, syncope and/or sudden death in the future.

SPECIES

Canine

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.

BREED

Boxer/Pitbull Mix

PLAN

Immediate referral for advanced imaging is recommended. An ECG and CXR are recommended. Institute Pimobendan 0.3mg/kg PO q12h. Continue Lasix as prescribed. Institute spironolactone 1-2mg/kg PO q12h. Assessment of BP recommended with continuation of ACEI 0.5mg/kg PO q12h pending BP >130mmHg.

SEX

Female Spayed

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

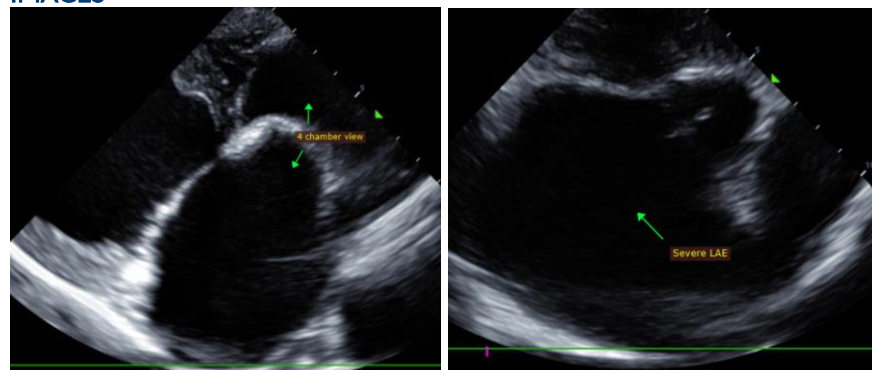
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IMAGES

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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.

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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. G Gotfredson

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