


PATIENT

Bourbon Williams

PRESENTING CLINICAL SIGNS

History: Presented 3/11/22 for presumed syncope episodes. Grain-free diet for 4 years. PE: NSF. Normal the next day. Grade 1/6 murmur. Started on Taurine 1000mg PO q12h and diet change.

SPECIES

Canine

-ECG report (Idexx): LAD, no arrhythmias.

-CXR report (Idexx): VHS: 11.8, moderate cardiomegaly, remainder NSF.

BREED

Rottweiler Mix

RADIOGRAPHIC FINDINGS *NOTE: Images submitted for supplemental cardiac information only.

While the VHS is mildly elevated (11.0), the overall cardiac silhouette appears normal in size and contour. No obvious evidence of CHF.

SEX

Male Neutered

ELECTROCARDIOGRAPHIC FINDINGS *Note: Single lead ECGs are evaluated as a rhythm strip. Morphology/MEA cannot be definitively commented on.

A single lead ECG is available; 50mm/s, 20mm/mV. The average heart rate is 125bpm with a largely regular rhythm. The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P and QRS morphologies are positive. No ectopic beats, pauses or other dysrhythmias observed.

AGE

5 years

ECG diagnosis: Normal sinus rhythm with respiratory variation.

WEIGHT

101.4lbs

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Mild diffuse thickening of mitral valve leaflets with no prolapse into the left atrial lumen. Trace mitral regurgitation with no left atrial dilation. Normal LV diameter with adequate myocardial function for this breed. The tricuspid valve appears normal with no tricuspid regurgitation. Normal right atrial and ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension. 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.

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

CARDIAC CHART
IMAGING PERFORMED BY

Kelly Reschny, RVT

HOSPITAL NAME

 Graham Animal
 Hospital

REFERRING VET

Dr. Lukacs

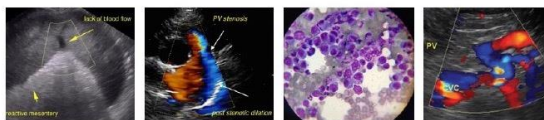
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23129

DATE

3/16/22

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	4.5	NA	1.0	1.2	33	60	0.6
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	1.8	1.2	46.0	3.4	4.5	3.0
*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)


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 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

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)

SPECIES

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overtly normal cardiac dimensions and function, with no obvious dysfunction or dilation of the left heart. A small mitral leak is noted which may reflect early valve disease and follow up is advised. No other significant valvular leaks are visualized, and no evidence of pulmonary hypertension. The ECG is unremarkable with a normal sinus rhythm. No evidence of diet-related cardiomyopathy on this scan.

BREED

Rottweiler Mix

SEX

Male Neutered

These findings certainly do not explain frequent syncopal episodes. The ECG is unremarkable, making an arrhythmia unlikely. A holter monitor can still be considered, if the episodes persists. Neurologic events should also be considered, including full systemic evaluation (lab work and neuromuscular evaluation).

AGE

5 years

While the VHS is mildly increased on the chest radiographs, the overall cardiac size is subjectively unremarkable. This is likely a normal variant in light of the echo findings.

WEIGHT

101.4lbs

Monitor for development of a heart murmur, cough, labored breathing, exercise intolerance or recurrent collapse episodes.

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PLAN

No obvious indication for Taurine supplementation. A diet change remains the conservative recommendation. Consider further evaluation for syncope episodes if they persists/recur in the future.

A recheck echocardiogram is recommended if a murmur or signs of cardiac compromise be noted in the future.

IMAGING
PERFORMED BY

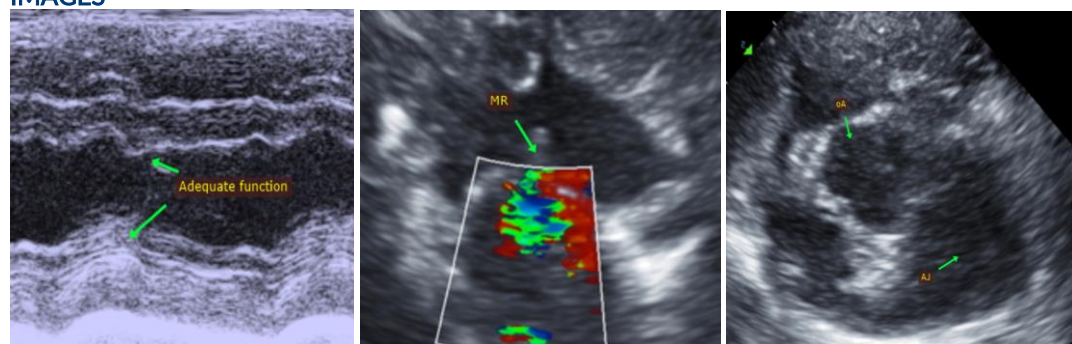
Kelly Reschny, RVT

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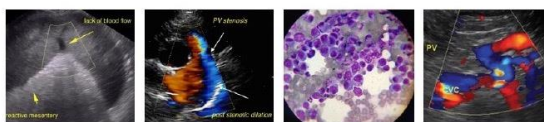
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IMAGES

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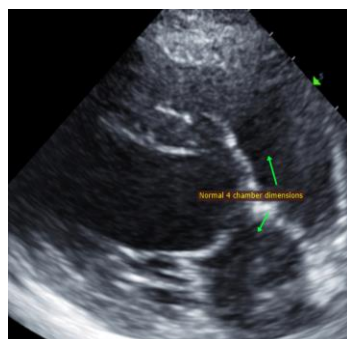
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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