



PATIENT

Raisin Anderson

PRESENTING CLINICAL SIGNS

History: Recently adopted. Diagnosed diabetic on insulin. Has had episodes of syncope. No murmur. No medications and non-clinical otherwise.

SPECIES

Canine

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. No mitral regurgitation with no left atrial dilation. Normal LV diameter with adequate myocardial function. The tricuspid valve appears normal with trace/mild tricuspid regurgitation. The TR velocity is normal; however, mild right heart prominence is noted in some views which may suggest right-sided disease and/or early pulmonary hypertension. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities with laminar flow. Trace aortic and trace pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

BREED

Pug

SEX

Male Neutered

CARDIAC CHART

AGE

8 years

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	NA	NA	1.3	1.4	29	58	0.53	
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	81	1.1	0.8		1.7	3.0	2.1	
*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)

WEIGHT

15.7lbs

INTERPRETED BY

Maggie Machen Lamy, DVM, DACVIM (Cardiology)

IMAGING PERFORMED BY

C. Belan, DVM

HOSPITAL NAME

Glamorgan Animal Clinic

REFERRING VET

Dr. Faulk

INVOICE

21654

DATE

10/21/21

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overtly normal cardiac dimensions and function, with no obvious dysfunction or dilation of the left heart. No significant valvular leaks are visualized. The right heart is prominent in some views which may certainly reflect early pulmonary hypertension or right heart pathology; however, this is suspected to be subclinical at this time. No additional issues are identified, and pulmonary pressures do measure normal.

Given these findings, no structural cause for syncope is identified. The patient has a low resting heart rate and vasovagal events may be considered. A baseline ECG and potentially an Atropine challenge may be warranted depending on the clinical picture. Other possible causes for syncope



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(depending on the situational component) include intermittent arrhythmias, blood pressure swings, neurologic events, etc. Further historical information is necessary.

SPECIES

Canine

No cardiac medications are obviously indicated at this time. Prognosis is open prior to assessing for progressive changes.

BREED

Pug

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

SEX

Male Neutered

PLAN

Baseline ECG +/- Atropine challenge is recommended. Consider full evaluation for causes of syncope pending further historical information as discussed.

A recheck echocardiogram is recommended in 1 year, sooner if clinical signs arise.

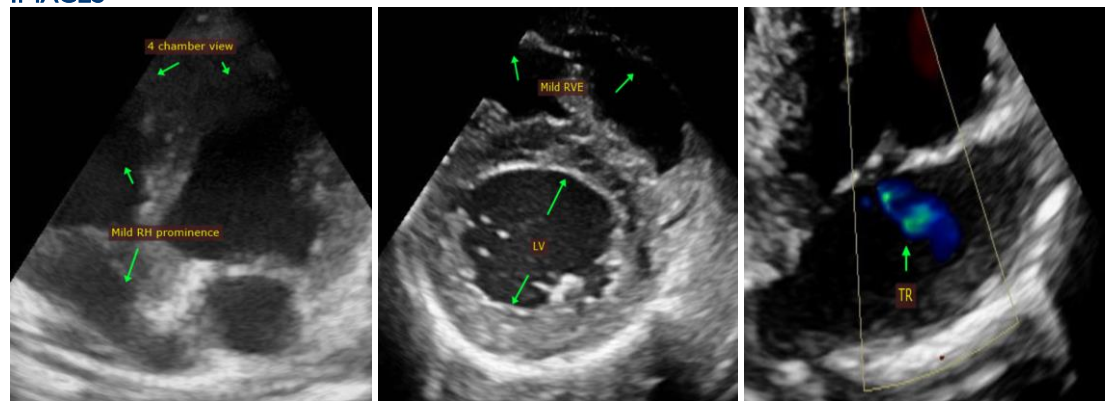
AGE

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IMAGES

WEIGHT

15.7lbs



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Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

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.

IMAGING PERFORMED BY

C. Belan, DVM

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.

HOSPITAL NAME

Glamorgan Animal
Clinic

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