

PATIENT

Bentley Roth

SPECIES

Canine

BREED

Cavalier King Charles Spaniel

SEX

Intact Male

AGE

5 Years

WEIGHT

19.9 Pounds

INTERPRETED BY

Sara Brethel DVM,
DACVIM (Cardiology)

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
DACVIM

HOSPITAL NAME

Meadowlawn Animal Services Market Commons

REFERRING VET

Dr. Hunt

INVOICE

35169

DATE

12/31/25

PRESENTING CLINICAL SIGNS

History: 2 syncopal episodes - one in July, one 2 weeks ago No murmur.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	~6.0	~2.0	1.51	1.5	--	--	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LAD LA MAX 4 Chamber	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				
PATIENT	--	~0.7	~1.0	9.0	2.7	2.7	1.6

ECG Interpretation

Sinus rhythm with a sinus arrhythmia

Cardiac Presentation

The mitral valve leaflets are mildly thickened with mild mitral regurgitation posteriorly directed. There is no prolapse of the mitral valve leaflet. The left atrial size is at the upper limits of normal. Left ventricular internal dimensions during diastole are within normal limits and systolic function is preserved in the face of mitral regurgitation. There is normal right atrial size with mild tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension based upon tricuspid regurgitant velocities. The right ventricle subjectively appears normal in structure and function. The aortic and pulmonic valves have normal morphology and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

ULTRASONOGRAPHIC FINDINGS

- Degenerative valve disease, ACVIM stage B-1
- Left atrium upper limits of normal
- Mild degeneration of the tricuspid valve without evidence of significant pulmonary hypertension



PATIENT

- Normal sinus rhythm

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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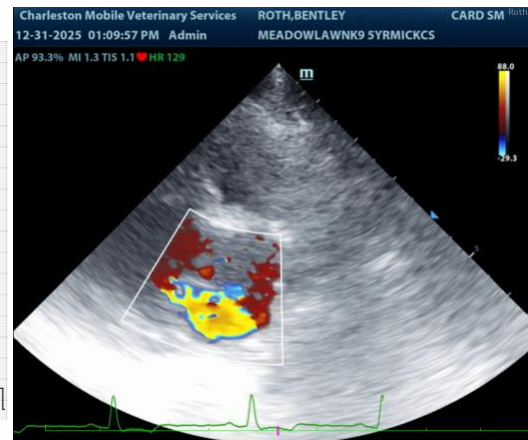
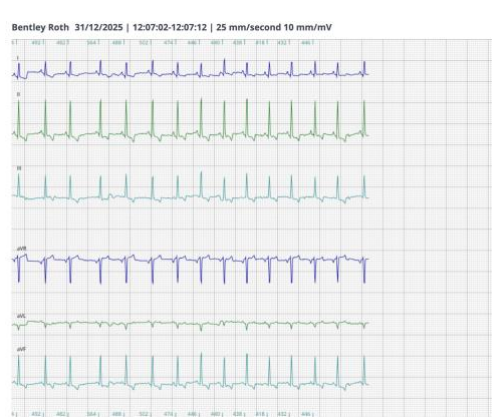
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The patient has degenerative valve disease, however, is labeled as a stage B-1, and the cause of the collapse episodes are likely not secondary to the structural disease. Similarly, the ECG provided is within normal limits. Can consider a Holter monitor, however, given the infrequency of these episodes, it may be a low yield test. Other diagnostics to consider include an abdominal ultrasound and possible neurologic evaluation. Recommend the clients obtain a video of the event the next time it happens and also obtaining a blood pressure on the patient. Recheck echo is recommended in 6 months due to the left atrium being at the upper limits of normal.



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

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

Sara Brethel DVM, DACVIM (Cardiology)

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