



PATIENT	PRESENTING CLINICAL SIGNS
Gunny Giles	History: Murmur noted at pre-neuter exam, cryptorchid. Heartworm negative. Sedated with 9mg butorphanol + 45mg Alfaxan IV.
SPECIES	ELECTROCARDIOGRAPHIC FINDINGS
Canine	(sedation was done prior to the ECG) A six lead ECG is available at 25mm/s; 20mm/mV. The average heart rate is 80bpm (range 77-103bpm). The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P wave morphology is positive with a normal dimension.
BREED	Normal PR. The QRS morphology is positive with normal dimension. MEA is normal. No ectopic beats, pauses or dysrhythmias observed.
Cane Corso	ECG diagnosis: Normal sinus rhythm with respiratory variation.
SEX	ECHOCARDIOGRAM FINDINGS
Male Intact	2D, m-mode, color flow and doppler imaging is available. Mild mitral valve leaflet thickening with no obvious prolapse into the left atrial lumen. No mitral regurgitation is identified. Normal left atrial dimension. Normal LV diameter with normal myocardial function. The tricuspid valve appears subjectively normal. No TR. The right heart is normal. No overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. No aortic abnormalities identified. Normal pulmonic outflow velocities. No aortic insufficiency. No pulmonic insufficiency. No pericardial or pleural effusion noted. No cardiac tumors observed.
AGE	
2 years	
WEIGHT	CARDIAC CHART
101.8lbs	
INTERPRETED BY	
Maggie Machen Lamy, DVM, DACVIM (Cardiology)	
IMAGING PERFORMED BY	
Dana Alterman, RDCS, LVT	
HOSPITAL NAME	
Eubank Animal Clinic	
REFERRING VET	
Dr. Barnes	
INVOICE	
30135	
DATE	
4/10/23	

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	1.0	1.4	39	69	0.54
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	0.8	46.2	3.0	4.3	2.6
*Normal chamber parameters expressed as a mean value (SD)							
BODY WEIGHT DEPENDENT PARAMETERS							
*Note: All measurements based upon multi-modal images and methods. An average value is reported.							
	5	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
	10	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)
	15	2.02 (1.9)	4.14 (2.2)	2.80 (2.0)	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)
	20	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
	25	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)
	30	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)			
	35						
	40						
	45						
	50						

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



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SPECIES

Canine

BREED

Cane Corso

SEX

Male Intact

AGE

2 years

WEIGHT

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

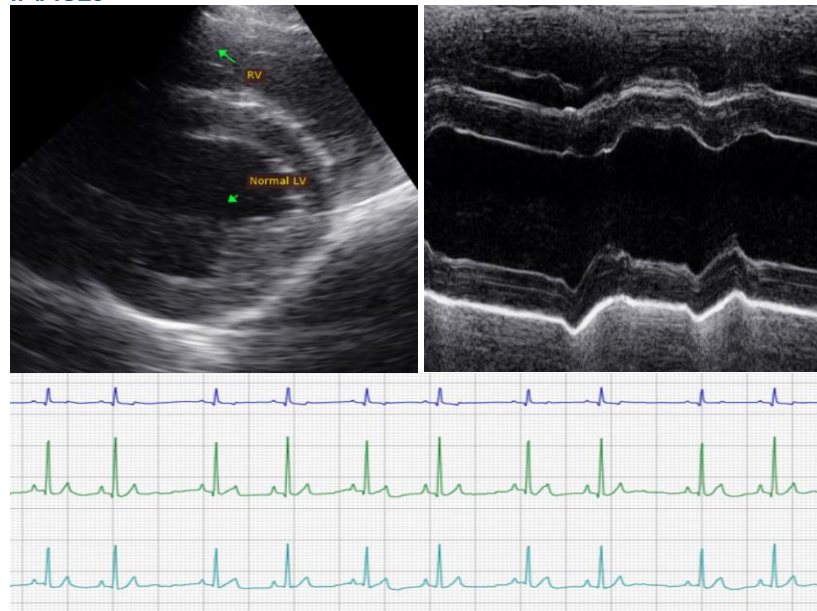
Overtly normal cardiac structure and function with no cause of a murmur identified. No significant valvular insufficiencies were noted and no structural issues identified. In the absence of significant volume changes (dehydration) or anemia, other possibilities include a physiologic flow murmur only present with elevated heart rates, or a small flow abnormality not seen here. It is reasonable to monitor periodically via recheck echocardiography in the future, particularly should the murmur persist/progress. The ECG is unremarkable with a normal sinus rhythm.

No cardiac medications are indicated at this time. Monitor for any development of cough, labored breathing or exercise intolerance.

No cardiac contraindication for general anesthesia.

Recommend recheck echocardiogram in 12-18 months to screen for progression or development of concurrent cardiac disease that the preexisting murmur may mask.

IMAGES



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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