



PATIENT

Chloe Hubbard

SPECIES

Canine

BREED

Labrador Retriever

SEX

Female Spayed

AGE

8.5 years

WEIGHT

58.2lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Englewood Vet
Center

REFERRING VET

Dr. Ezik

INVOICE

60663

DATE

8/20/21

PRESENTING CLINICAL SIGNS

History: Supraventricular arrhythmia detected on pre-op ECG for ACL repair surgery.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Mitral valve is mildly thickened with no prolapse into the left atrial lumen. Trace central mitral regurgitation with normal left atrial dimension. Normal LV diameter with borderline myocardial function. Increased LV sphericity. The tricuspid valve appears normal with trivial 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. Ectopy noted throughout.

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	NA	NA	1.3	1.1	26	50	0.66
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	110	1.3	1.0	26.4	2.2	4.7	3.5
*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)
				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

Overtly normal cardiac dimensions and function, with no obvious significant dysfunction or dilation of the left heart. It is worth noting that the systolic function is borderline, which may be a normal variant or may reflect early myocardial disease. Follow up is advised. Trivial mitral and tricuspid leaks are visualized which are hemodynamically insufficient at this time. No evidence of pulmonary hypertension. No obvious cardiac tumors: however, it is important to note that small masses are easily missed particularly in the absence of effusion.



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No structural cause for supraventricular arrhythmias is identified. Consider systemic or primary arrhythmic causes. Follow up as dictated by the ECG evaluation.

SPECIES

Canine

No indication for medications at this time. Consider screening for possible causes of myocardial dysfunction, including BEG diet, hypothyroidism, etc. No obvious need for taurine supplementation at this time.

BREED

Labrador Retriever

No structural contraindication for general anesthesia; however, this does not address the arrhythmia. Anesthetic guidelines should be dictated by the amount and complexity of the arrhythmia.

SEX

Female Spayed

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

AGE

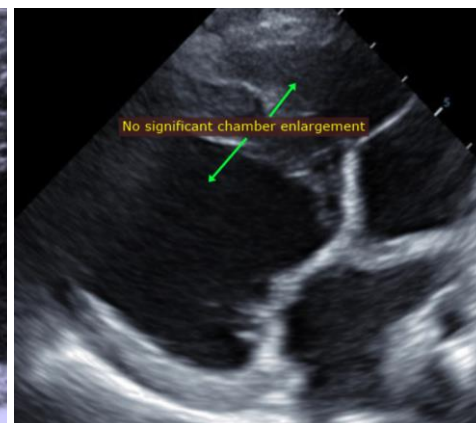
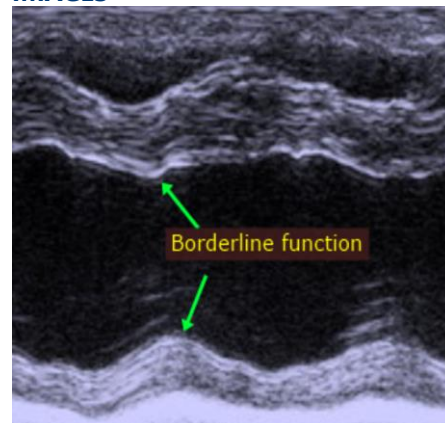
8.5 years

A recheck echocardiogram is recommended in 6-12 months to ensure no progression is seen.

WEIGHT

58.2lbs

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.

HOSPITAL NAME

Englewood Vet
Center

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. Ezik

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