



PATIENT

Tuck McKee

SPECIES

Canine

BREED

St Bernard Mix

SEX

Male Neutered

AGE

2 years

PRESENTING CLINICAL SIGNS

History: Has been on a grain free diet and just recently have taken him off of that. Has also been lethargic/exercise intolerant lately - will sit after a 1/2 mile and not want to go further, used to walk 3.5 miles. No gastrointestinal symptoms. No PU/PD. Was started on thyroid supplementation a couple of weeks ago and seems to be helping with energy. Blood pressure: 140mmHg.
-Abnormal lab results: mild increase in creatinine, HCT is high normal, and lymphocytes were high normal. K was WNL at 4.7, T4 was <0.5.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Mild thickening of mitral valve leaflets with no prolapse into the left atrial lumen. No mitral regurgitation with a normal left atrial dimension. Normal LV diameter (borderline in systole) with low normal myocardial function. Increased EPSS. 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.

CARDIAC CHART

WEIGHT

174lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Kelly Romero, DVM

HOSPITAL NAME

FC Veterinary
Emergency Hospital

REFERRING VET

Dr. Romero

INVOICE

21418

DATE

10/7/21

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			1.1	1.0	29	56	1.6
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		1.2	0.93	79.0	3.7	5.7	4.06
*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)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

MEssentially normal cardiac structure and function for this signalment. The only abnormalities identified are borderline function and LVIDs, with an increased EPSS. These may suggest early cardiomyopathy; however, in a recently diagnosed hypothyroid patient on a non-traditional diet



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these may be a normal variant. Follow up is advised. No significant valve leaks are noted, and the exam is otherwise unremarkable.

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No medications are indicated, and the diet has already been changed. Given these findings, the exercise intolerance is certainly non-cardiac in origin.

Monitor for any development of persistent cough, labored breathing or exercise intolerance.

BREED

St Bernard Mix

No cardiac contraindication for general anesthesia.

SEX

Male Neutered

Recommend recheck echocardiogram in 12 months to screen for any progressive changes; if unchanged/improved, no follow up is needed unless a murmur/clinical signs arise.

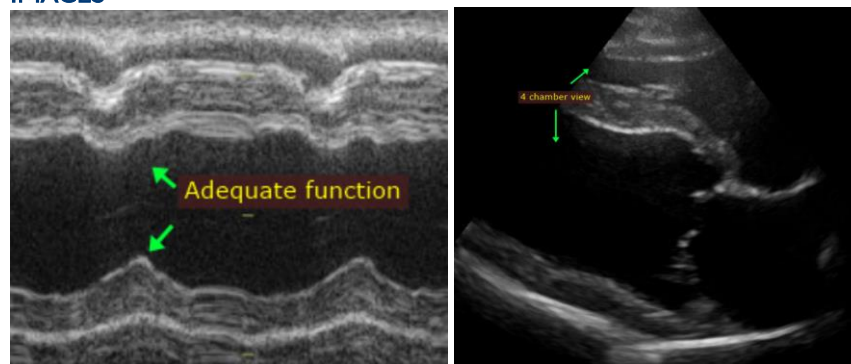
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IMAGES

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(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

Kelly Romero, 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

FC Veterinary
Emergency Hospital

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