



PATIENT

Bugsy Jones

SPECIES

Canine

BREED

Beagle Mix

SEX

Male Neutered

AGE

11 years

WEIGHT

46lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Fred Gromalak, DVM

HOSPITAL NAME

SVS Imaging

REFERRING VET

Dr. Bloss

INVOICE

20681

DATE

8/23/21

PRESENTING CLINICAL SIGNS

History: Exercise intolerance duration 1 month, will pant excessively on and after walks, even short ones. PE WNL, no murmur noted, lungs clear. History severe food allergies causing diarrhea/vomiting which has been controlled well for several years with RC hydrolyzed protein HP diet. Was on a grain free diet before.

-CBC/profile/electrolytes WNL 6/21, heartworm Ag neg 2/21 and on monthly heartworm preventative.

RADIOGRAPHIC FINDINGS *NOTE: Images submitted for supplemental cardiac information only.

Normal cardiac silhouette. No obvious evidence of CHF.

ELECTROCARDIOGRAPHIC FINDINGS *Note: Single lead ECGs are evaluated as a rhythm strip.

Morphology/MEA cannot be definitively commented on.

A single lead ECG is available. Evaluation is limited by image quality. No obvious dysrhythmias observed with a respiratory sinus arrhythmia.

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. Trace physiologic mitral regurgitation with no left atrial dilation. Normal LV diameter with adequate myocardial function. 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

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	NM	NA	1.4	1.3	39	71	0.4
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	140	1.8	1.3	20.9	2.0	3.86	2.3
*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)
Adapted from June Boon, Veterinary Echocardiography, 1998							



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Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435	35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
Hansson et al, Vet Rad and Ultrasound 2002	40	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)
Bonagura et al. Echocardiography: principles of interpretation, Vet	50	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overtly normal cardiac dimensions and function, with no obvious dysfunction or dilation of the left heart. Trace MR is noted, which is physiologic in origin. No additional issues are identified.

BREED

Beagle Mix

Given the recent evidence of grain free/boutique/exotic ingredient diets leading to DCM in some (but certainly not all) dogs, recommend change to a more standard well formulated diet going forward. No obvious need for taurine supplementation or taurine testing at this time.

SEX

Male Neutered

Given these findings, exercise intolerance and panting are clearly noncardiac in origin. The ECG is unremarkable with a respiratory sinus arrhythmia and there is no evidence of cardiomegaly on chest films, other possibilities should be considered.

AGE

11 years

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

WEIGHT

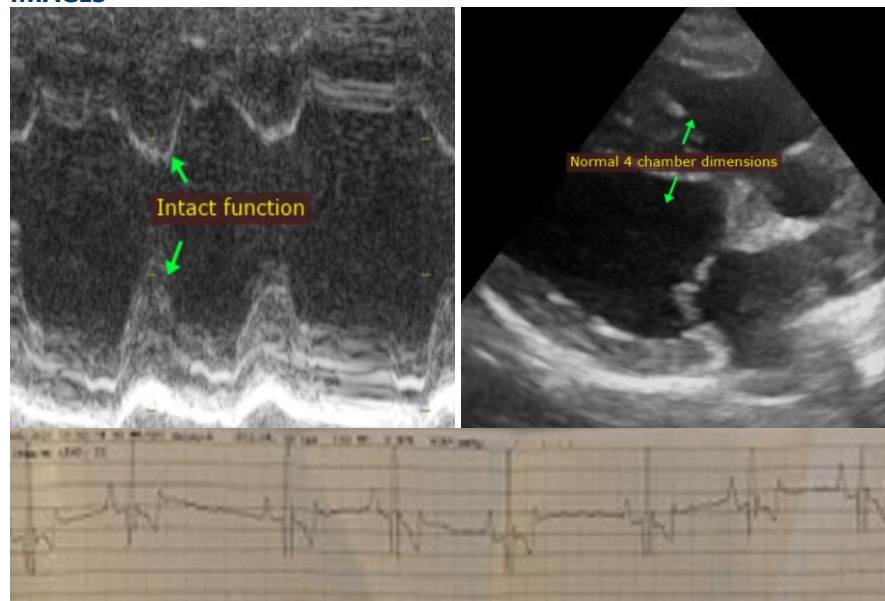
46lbs

A recheck echocardiogram is recommended should a significant murmur develop, or signs of cardiac compromise develop in the future.

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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.

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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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Beagle Mix

Maggie Machen Lamy, DVM

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