
PATIENT PRESENTING CLINICAL SIGNS

Wren Jones History: Abnormal heart sounds. New grade 2/6 heart murmur heard. No arrhythmias ausculted. Pulses good. No medications currently.

SPECIES ECHOCARDIOGRAM FINDINGS

Canine 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. Mild central mitral regurgitation; normal left atrial dimension. Mild LV dilation in both systole and diastole (LVIDdN: 1.78, LVIDsN: 1.2) with borderline function. Mild increase in sphericity. The tricuspid valve appears normal with trivial tricuspid regurgitation. Normal right atrial and ventricular diameter and morphology; no overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. No AI or PI appreciated. No pericardial or pleural effusion noted. No obvious cardiac masses.

BREED

Boxer Mix

SEX

Female Spayed

CARDIAC CHART
AGE

4 years

WEIGHT

63.5lbs

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Crystal Hill, RVT

HOSPITAL NAME

 Wilson Mobile Vet
 Service

REFERRING VET

Dr. Wilson

INVOICE

26115

DATE

8/31/22

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	1.1	1.3	26	50	0.9
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	1.4	1.1	28.8	2.4	4.8	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

The only abnormality identified is mild LV enlargement with borderline systolic dysfunction. In this particular breed this may very be a normal variant; however serial monitoring is advised to screen for development of cardiomyopathy. There is mild mitral regurgitation, which may reflect early valve disease and likely explains the reported murmur. A flow murmur is also possible. Monitoring for progression is advised. No additional issues are identified, and the LA is normal, indicating a low risk for complication at this time.



PATIENT

Wren Jones

Given the recent evidence of grain free/boutique diets leading to DCM in some (but certainly not all) dogs, highly recommend a thorough diet history in this patient. If grain free, exotic ingredient or boutique brand (BEG), recommend immediate change to a more standard well formulated diet. Additionally, a thyroid level should be assessed as a possible contributing issue.

SPECIES

Canine

Abnormal heart sounds are noted in the history, which are not further described. An ECG is certainly recommended in this predisposed breed.

BREED

Boxer Mix

Monitor for development of a heart murmur, cough, labored breathing, exercise intolerance or collapse episodes. Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit.

SEX

Female Spayed

No cardiac contraindication for general anesthesia.

AGE

4 years

PLAN
Avoid BEG diets in this patient.

Recommend conservative monitoring with a recheck echocardiogram in 6 months, sooner if any development of clinical signs or a heart murmur.

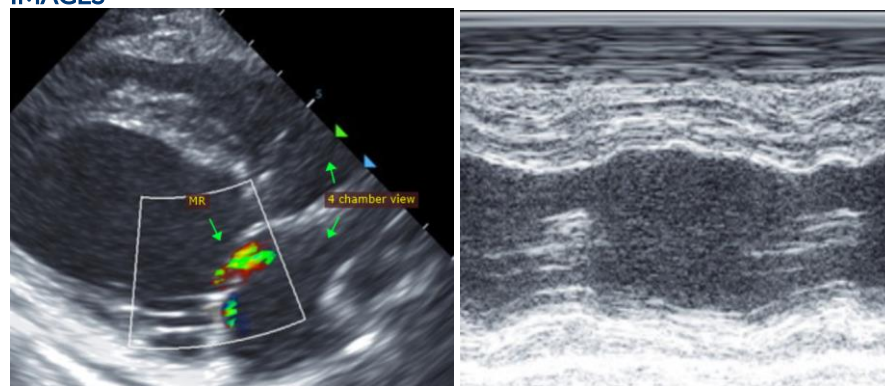
WEIGHT

63.5lbs

IMAGES

INTERPRETED BY

Maggie Machen Lamy,
DVM DACVIM
(Cardiology)



IMAGING PERFORMED BY

Crystal Hill, RVT

HOSPITAL NAME

Wilson Mobile Vet
Service

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.

REFERRING VET

Dr. Wilson

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.

INVOICE

26115

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

DATE

8/31/22