



PATIENT

Wolverine Tavares

SPECIES

Canine

BREED

Pomeranian

SEX

Male Intact

AGE

7 years

WEIGHT

6.4lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

G. Ferrer, DVM

HOSPITAL NAME

Paseos Veterinary
Center

REFERRING VET

Dr.Charneco

INVOICE

30271

DATE

4/17/23

PRESENTING CLINICAL SIGNS

History: Wolverine presented as a referral for an echocardiogram and an abdominal ultrasound to evaluate hepatomegaly and possible mass on the right atrium. Wolverine is an epileptic patient that is on Keppra TID. He also suffers from chronic alopecia. Radiographs were taken on April 2023 and the radiologist's report mentioned possible right atrial mass or endocardiosis in addition to other abnormalities like hepatomegaly.

-Abnormal PE/Chem/CBC/UA Results: Other diagnostics performed: normal values for Addison 8hrs 1.0 (0.0-1.4mg/dl), normal Keppra blood levels 14.5 (12-46) and pending thyroid panel.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve leaflets with no prolapse into the left atrial lumen. Trivial mitral regurgitation with a normal left atrial dimension. 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	NM	1.3	69	96	NM
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	100	0.7	1.1	2.9	1.3	1.6	0.5
*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)
<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

Overtly normal cardiac dimensions and function, with no obvious dysfunction or dilation of the left heart. Trivial MR is noted, which may suggest early valve disease and follow up is advised should a murmur be ausculted in the future. No other significant valvular leaks are visualized, and no evidence of pulmonary hypertension. No obvious intra or extra-cardiac masses are visualized.



PATIENT

Wolverine Tavares

That being said, it is important to note that small lesions are easily missed on 2D ultrasounds. A thoracic CT should be considered if suspicion is high.

SPECIES

Canine

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

BREED

Pomeranian

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

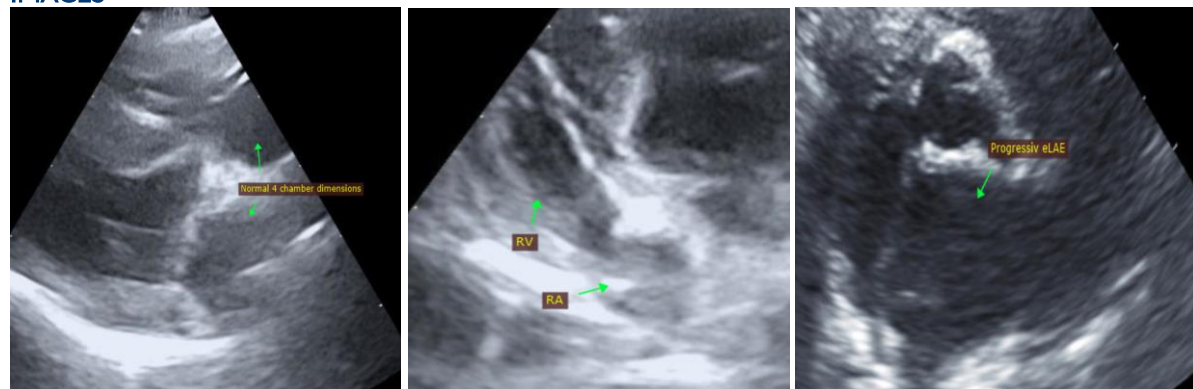
SEX

Male Intact

IMAGES

AGE

7 years



WEIGHT

6.4lbs

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.

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

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.

IMAGING PERFORMED BY

G. Ferrer, DVM

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

HOSPITAL NAME

Paseos Veterinary
Center

REFERRING VET

Dr.Charneco

INVOICE

30271

DATE

4/17/23