



PATIENT

Sanson Torrellas

SPECIES

Canine

BREED

German Shepherd

SEX

Male Neutered

AGE

9 years

WEIGHT

81.6lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

G. Ferrer, DVM

HOSPITAL NAME

Paseos Veterinary
Center

REFERRING VET

Dr. Ortiz

INVOICE

31603

DATE

6/28/23

PRESENTING CLINICAL SIGNS

History: Recheck echo. BP: 160, 132mmHg.

-Current medications: Benazepril 20mg: 1 BID, Spironolactone 50mg: 1 BID, Vetmedin 10mg: 1 BID, Diltiazem 90mg: 1/2 Q8h.

-Pertinent previous echo findings (2/2023 MML): Moderate MR, severe LAE, LVE, FS: 27%, mild TR, moderate RHE. Rapid AF. LA: 4.3, LV: 5.4/3.9.

RADIOGRAPHIC FINDINGS *NOTE: Images submitted for supplemental cardiac information only.
Cardiomegaly. Pleural effusion. No obvious evidence of CHF.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Diffuse thickening of mitral valve leaflets with no prolapse into the left atrial lumen. Moderate mitral regurgitation with marked left atrial dilation. Decreased MR velocity. Significant LV dilation with adequate myocardial function for this signalment. Increased sphericity of the LV. The tricuspid valve appears mildly thickened, with mild tricuspid regurgitation. Moderate right heart dilation. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities. No aortic or pulmonic insufficiency. No pericardial effusion. Pockets of pleural effusion noted. No cardiac tumors observed. Irregular rhythm 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	4.0	NM	NM	2.5	35	68	0.5
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	170	1.0	0.8	37.0	5.7	6.3	4.1
*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

Chronic degenerative valve disease persists with evidence of progression. While moderate mitral and mild tricuspid regurgitation are unchanged, the left heart is progressively enlarged. The right



PATIENT

Sanson Torrellas

heart remains dilated as well and atrial fibrillation persists. Finally, pleural is documented, which is concerning for refractory CHF.

SPECIES

Canine

Given these findings, continued full cardiac support is recommended as below with an increase in Lasix dosage. No further comment can be made on the arrhythmia without an ECG; however, recommendation is to ensure the stressed heart rate maintains between 140-160bpm.

BREED

German Shepherd

No clinical signs are reported in the history, which is certainly good news; however, this patient is considered end-stage with high risk for complication. Unfortunately, there will always remain risk for recurrent CHF, malignant arrhythmias, LA tear and/or sudden death.

SEX

Male Neutered

PLAN

Continue Benazepril, Spironolactone and Pimobendan as prescribed. Increase Lasix by 25% (no current dose included), total daily dosing should be ~2mg/kg BID. Diltiazem dose should be based upon resting heart rate/ECG reassessment.

AGE

9 years

Monitor renal values/BP in 1-2 weeks then every 3-4 months lifelong.

A recheck echocardiogram is recommended in 6 months to screen for progression.

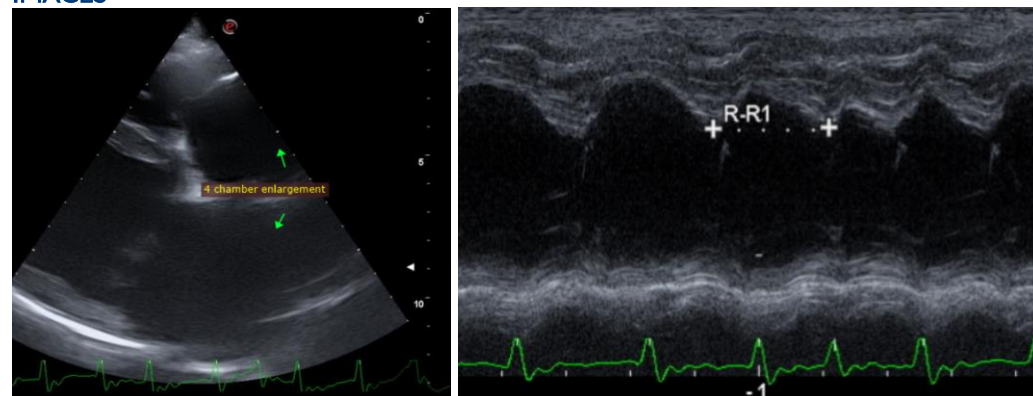
WEIGHT

81.6lbs

IMAGES

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)



IMAGING PERFORMED BY

G. Ferrer, DVM

HOSPITAL NAME

Paseos Veterinary
Center

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. Ortiz

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

31603

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

DATE

6/28/23