



## PATIENT

Sophie Richter

## SPECIES

Canine

## BREED

Minature Pincher Mix

## SEX

Female Spayed

## AGE

11 years

## WEIGHT

16.8lbs

## INTERPRETED BY

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

## IMAGING PERFORMED BY

Dave Stasuiik,  
RDMS, RDCS

## HOSPITAL NAME

Healing Traditions  
Holistic Veterinary  
Center

## REFERRING VET

Dr. Belan

## INVOICE

21208

## DATE

9/24/21

## PRESENTING CLINICAL SIGNS

History: Cyanosis. Dyspnea. Panting.

## 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 no left atrial dilation. Decreased LV diameter with hyperdynamic myocardial function. Significant LV hypertrophy. The tricuspid valve appears normal with no tricuspid regurgitation. Normal right atrial and ventricular diameter and morphology. The pulmonic and aortic valves are normal in morphology and mobility. Elevated pulmonic and borderline aortic outflow velocities with laminar flow. No aortic insufficiency. No pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

## CARDIAC CHART

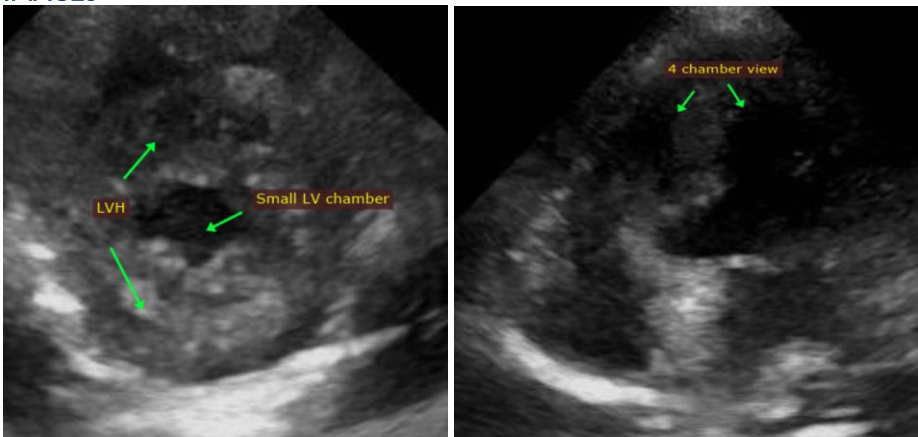
CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	NA	NA	1.0	1.2	73	97	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LA 2D short 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	NM	1.9	2.6	7.6	1.5	1.3	0.4
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
<b>BODY WEIGHT DEPENDENT PARAMETERS</b>				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

The primary abnormality identified is significant LV hypertrophy with a decreased chamber size. These findings may suggest pseudohypertrophy (dehydration or hypovolemia); however, systemic hypertension should also be considered. The murmur is due to increase flow velocity through both great vessels, which likely also suggests volume depletion. If this patient has received Lasix therapy this can be related, and diuretics should certainly be discontinued. No additional issues are noted in this study.

These findings would certainly suggest the reported respiratory signs are non-cardiac in origin. Pending lab results, fluid resuscitation should be considered if indicated. Baseline chest



<b>PATIENT</b>	radiographs may be useful to further evaluate further pulmonary parenchyma in light of clinical signs.
Sophie Richter	
<b>SPECIES</b>	No cardiac medications are clearly indicated. Monitoring for progression/regression of these findings will be useful to understand baseline cardiac structure once patient is further evaluated. Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.
Canine	
<b>BREED</b>	No cardiac contraindication for general anesthesia pending lab work/blood pressure evaluation.
Minature Pincher Mix	
<b>SEX</b>	<b>PLAN</b>
Female Spayed	Screening blood pressure is recommended with institution of Amlodipine if persistently >180mmHg. Further internal medicine evaluation is advised if results do appear elevated. Immediate lab work evaluation is advised. Baseline chest radiographs as discussed.
<b>AGE</b>	Recommend conservative monitoring with a recheck echocardiogram in 6 months to screen for progression/regression of findings.
11 years	
<b>WEIGHT</b>	<b>IMAGES</b>
16.8lbs	
<b>INTERPRETED BY</b>	
Maggie Machen Lamy, DVM, DACVIM (Cardiology)	
<b>IMAGING PERFORMED BY</b>	
Dave Stasuik, RDMS, RDCS	
<b>HOSPITAL NAME</b>	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.
Healing Traditions Holistic Veterinary Center	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.
<b>REFERRING VET</b>	<b>Maggie Machen Lamy, DVM</b> Diplomate of the American College of Veterinary Internal Medicine (Cardiology) info@sonopath.com
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21208	
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