

**PATIENT**

Leeli Gehr

**PRESENTING CLINICAL SIGNS**

History: No known heart symptoms or murmur. No coughing or exercise intolerance. This is a baseline echocardiogram check for OFA application for congenital cardiac database.

**SPECIES**

Canine

**BREED**

Boxer

**SEX**

Female Spayed

**AGE**

3 years

**WEIGHT**

68lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

Kim Liedberg

**HOSPITAL NAME**

SVS Imaging WI

**REFERRING VET**

Dr. Svang

**INVOICE**

22861

**DATE**

3/1/22

**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 central mitral regurgitation with a normal left atrial dimension. Normal LV diameter with adequate myocardial function. The tricuspid valve appears mildly thickened with a slightly tethered septal leaflet and mild tricuspid regurgitation. Borderline TR velocity. 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 mildly elevated 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)
<b>NORMAL PARAMETER</b>	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
<b>PATIENT</b>		2.6	1.2	1.3	35	65	0.6
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)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
<b>PATIENT</b>	120	2.1	1.1	30.8	3.1	3.8	2.5
*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**

Mild abnormalities are identified. Mild tricuspid regurgitation likely reflects mild tricuspid valve dysplasia given the appearance of the valve. Additionally, a mildly elevated aortic outflow velocity is noted; however, the LVOT/aortic valve appear largely normal. The degree of velocity elevation is mild and is likely of little clinical significance. No additional issues are noted.

Given the finding of a mildly abnormal tricuspid valve, breeding is not advised in this animal. That being said, what is seen here is overall mild and likely of little clinical significance to this particular

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animal. An OFA by an attending Cardiologist is considered the gold standard breeding exam and should be considered.

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

**SPECIES**

Canine

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

**BREED**

Boxer

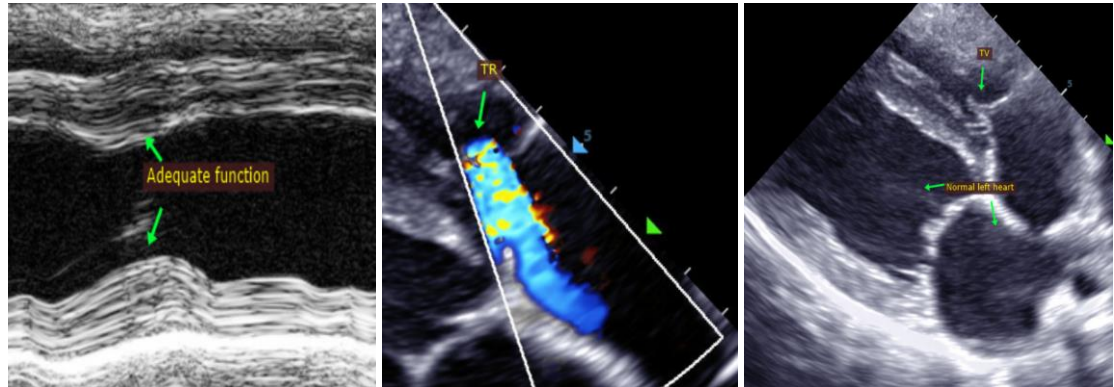
**SEX**

Female Spayed

**AGE**

3 years

**IMAGES**



**WEIGHT**

68lbs

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. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

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

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