



PATIENT

PRESENTING CLINICAL SIGNS

History: Grade 2-3/6 heart murmur was noted on routine exam. History of left stifle surgery.

Kaido Tovar

SPECIES

ECHOCARDIOGRAM FINDINGS

Canine

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 normal left atrial dimension. Normal LV diameter with adequate myocardial function. Normal LV wall dimensions with no obvious hypertrophy. 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 valve is normal in morphology and mobility. Normal pulmonic outflow velocities with laminar flow. Mild diffuse aortic valve thickening; mildly increased LVOT velocity consistent with minimal stenosis. No aortic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

BREED

Pitbull

SEX

CARDIAC CHART

Male Intact

AGE

1 year

WEIGHT

76lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Kim Liedberg

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	57	87	0.33	
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	150	3.0	1.3	34.5	2.9	3.8	1.7	
*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

The cause of the murmur is mild aortic stenosis. No obvious subaortic ridge is visualized, making this likely purely an aortic issue. The mildly increased PG and normal LV wall thickness indicates the disease is likely of minimal clinical significance and prognosis is good. The new nature of the murmur may indicate a contributing issue such as volume or HR change, and baseline labs are recommended.

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

Dr. Mline

INVOICE

24003

DATE

5/3/22

No cardiac medications are indicated at this time. From a cardiac standpoint, monitor for development of collapse episodes, labored breathing or exercise intolerance. As an aside, grain free/boutique brand/exotic ingredient diets should be avoided in this breed lifelong.

IMAGING PERFORMED BY

svsmobileimaging.com 309-737-3070

**PATIENT**

Kaido Tovar

Anesthetic risk is low. Avoid heart rate stimulating drugs such as atropine or glycopyrrolate unless clinically indicated.

SPECIES

Canine

Recommend recheck echocardiogram in 1 year to confirm no progression is seen, and to screen for development of concurrent cardiac disease that the preexisting murmur may mask.

BREED

Pitbull

SEX

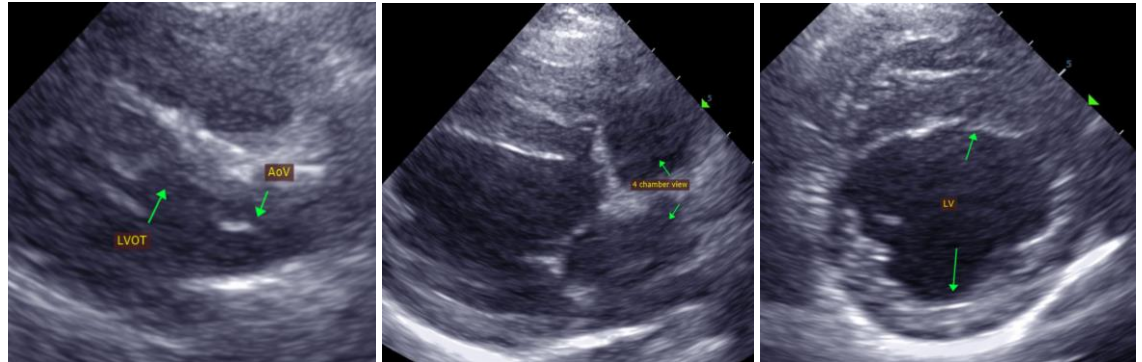
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IMAGES

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.

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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