



PATIENT

Rudy Jr. Sugimura

SPECIES

Canine

BREED

Chihuahua

SEX

Intact Male

AGE

6 Months

WEIGHT

6.24 pounds

INTERPRETED BY

Sara Brethel DVM,
DACVIM (Cardiology)

IMAGING PERFORMED BY

Dr. Andrea Nason

HOSPITAL NAME

Caravan Vet

REFERRING VET

Dr. Andrea Nason

INVOICE

14900

DATE

04/07/26

PRESENTING CLINICAL SIGNS

Rudy had a soft left sided murmur on his exam in March (nothing heard at January or Feb visits); He is showing no signs of heart disease at home - normal puppy energy, appetite, etc. He's present for a neuter and deciduous teeth extractions. He has a grade 2 left sided murmur this morning. Echocardiogram to evaluate for underlying heart disease and assess safety of anesthesia for today.

Abnormal PE/Chem/CBC/UA Results: HCT 36.7 %, ALB 2.5, BNP 387 cortisol 2.9 Heartworm and tick panel negative Positive for giardia and Cystoisospora Antigen

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	UE	--	NM	1.05	32	-	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LAD LA MAX 4 Chamber	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				
PATIENT	NM	--	--	2.83	1.8	2.0	1.36

Cardiac Presentation

The mitral valve leaflets are normal and there is trivial mitral regurgitation. There is no prolapse of the mitral valve leaflets. The left atrial size is normal. Left ventricular systolic and diastolic function is within normal limits. There is normal right atrial size without evidence of tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension on today's evaluation. The right ventricle subjectively appears normal in structure and function. The aortic and pulmonic valves have normal morphology. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

ULTRASONOGRAPHIC FINDINGS

- Trivial mitral regurgitation.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



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There is trivial mitral regurgitation. The exact cause is unknown. This could still be physiologic. It is difficult to assess aortic and pulmonic outflow velocities; however, these appear to be less than 2 meters per second which is within normal limits. The patient appears to be an adequate candidate for elective procedures today. Due to the mitral regurgitation, can be cautious and avoid therapies such as dexmedetomidine and other alpha-2 agonists. Otherwise, standard perioperative fluid should be well tolerated. If the murmur persists, I would consider either evaluation with a veterinary cardiologist or pursuing a recheck echo in four to six months, sooner if the murmur is worsening in intensity or the patient is developing cardiovascular clinical signs.



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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. 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.

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