



PATIENT

Bochy Slade

SPECIES

Canine

BREED

Pomeranian

SEX

Neutered Male

AGE

4 Years

WEIGHT

6.6 Pounds

INTERPRETED BY

Sara Brethel DVM,
 DACVIM (Cardiology)

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Cottage Grove VC

REFERRING VET

Dr. Damewood

PRESENTING CLINICAL SIGNS

- Clinical Exam Findings: Grade 3 out of 5 heart murmur. Systolic, L side.
- ABNORMAL Labwork Values: None
- For ECHO Only: Blood Pressure: Not done
- HR/RR/BP: 130/40
- Is there a Heart Murmur? If so, please grade: 3/5
- Current Medications: None
- Radiographic Findings: None

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	--	--	1.0	1.4	48	--	0.14
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	--	1.15	1.28	3.0	2.4	2.5	1.3

Cardiac Presentation

The mitral valve leaflets are normal and there is no mitral regurgitation. There is no prolapse of the mitral valve leaflets. The left atrial size is normal. There is evidence of mild eccentric left ventricular hypertrophy with preserved systolic function. 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 and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic

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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

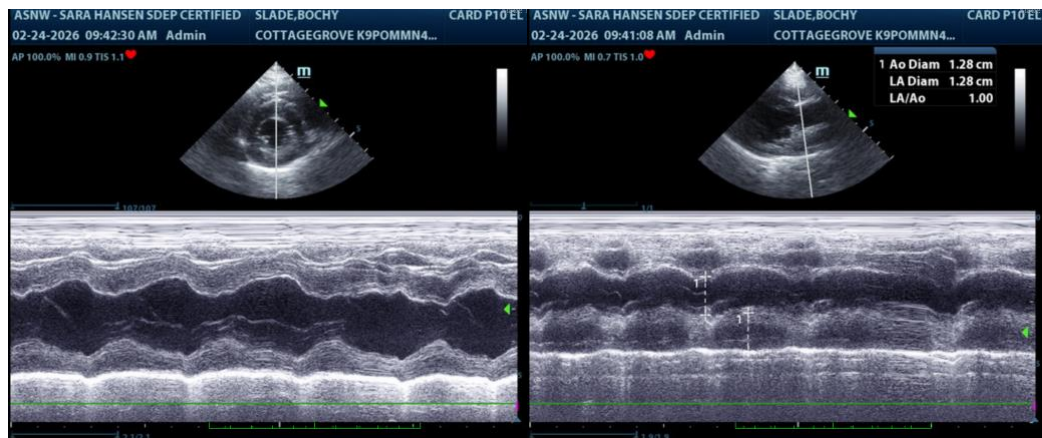
- Mild eccentric hypertrophy of the left ventricle

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient's left ventricular diastolic dimensions are mildly dilated, representing eccentric hypertrophy. Left ventricular systolic function is preserved. No other source of the murmur is identified based upon the images provided.

Given the patient's age, a congenital defect cannot be entirely ruled out. Can consider referral to a veterinary cardiologist. Also recommend ensuring the patient is on a traditional grain-based diet due to the mild dilation of the left ventricle.

Recommend ensuring full blood work is normal, that the thyroid hormone is normal, and no other underlying systemic diseases are present. A recheck echo is recommended in 6 months, if not moving forward with a cardiology referral to monitor the changes.



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.

Sara Brethel DVM, DACVIM (Cardiology)

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