



PATIENT

Olive Graham

SPECIES

Canine

BREED

Pointer Mix

SEX

Spayed Female

AGE

9 Years

WEIGHT

51 pounds

INTERPRETED BY

Sara Brethel DVM,
DACVIM (Cardiology)

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Countryside Animal
Clinic

REFERRING VET

Dr. Cox

INVOICE

13291

DATE

01/21/26

PRESENTING CLINICAL SIGNS

- Clinical Exam Findings: Reduced mobility, moving slower. Cardiac disease - elevated cardiopet.
- ABNORMAL Labwork Values- CBC: mild lymphopenia, Chem: Ca 12.6, Phosp 2.3, Cardiopet 951 - mildly elevated, T4 = 2, HWT is negative, Elevated Ca and lower Phosp
- For ECHO Only: Blood Pressure: N/A
- HR/RR/BP: N/A
- Current Medications: Librela

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			1.02	1.17	36.55	--	--
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	1.97	1.99	23.18	4.2	3.42	2.17

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. 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 and the corresponding outflow velocities are within normal limits. 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

- The heart is structurally normal.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



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The cause for the elevated ProBNP is not entirely known, however, there is concern that whatever is causing the hypercalcemia is contributing to the elevated ProBNP. A recheck ECHO is not needed unless the patient develops a heart murmur or an arrhythmia in the future.



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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