



PATIENT

Dash Harrison

SPECIES

Canine

BREED

Doberman Pinscher

SEX

Neutered Male

AGE

8 Years 6 Months

WEIGHT

90 Pounds

INTERPRETED BY

Sara Brethel, DVM,
 DACVIM (Cardiology)

IMAGING PERFORMED BY

Kathleen Byrnes

HOSPITAL NAME

Ah of Lake Brandt

REFERRING VET

Dr. Wallace

INVOICE

35153

DATE

12/30/25

PRESENTING CLINICAL SIGNS

History: P presented for US due to elevated ALT and ProBNP. rDVM wants to investigate Liver and be proactive about heart even though no clinical signs present BP 160, 164, 162 - P trembling.

Abnormal PE/Chem/CBC/UA Results: ALT 336 ProBNP 1,911

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	Trace	Trace	NM	1.47	32.58	--	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	--	1.87	1.17	40.9	--	4.45	3.0

Cardiac Presentation

The mitral valve leaflets are normal and there is trace 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 with trace 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

- Trace MR and TR

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The heart measures within normal limits, but there is trace evidence of mitral and tricuspid regurgitation. Volumetric assessments are unable to be obtained, however, 2D assessments do not



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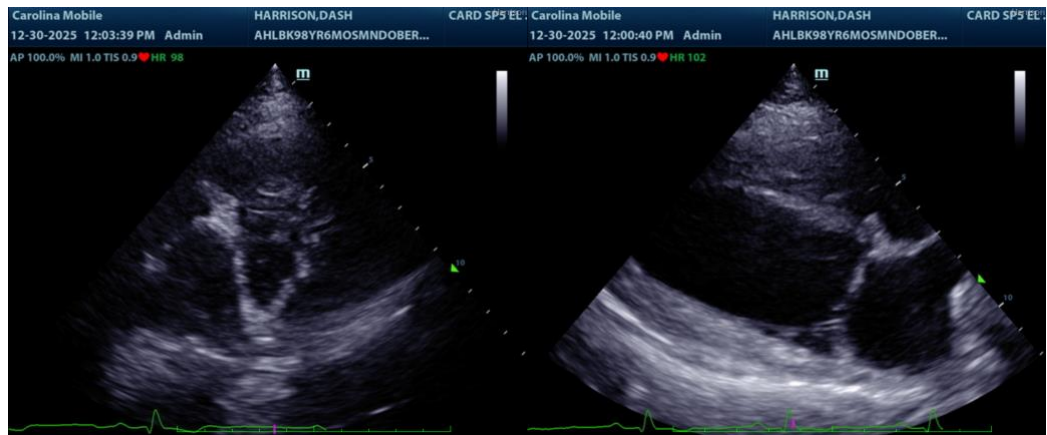
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show evidence of significant disease, like dilated cardiomyopathy, at this time. If there are other underlying systemic conditions that could also attribute to the elevated proBNP, while the rhythm was normal during the echo, this is a moment in time, and a Holter monitor is recommended for the patient to evaluate for any other underlying arrhythmias. Otherwise, a recheck echo is recommended in 6-9 months to monitor the mitral and tricuspid regurgitation. No cardiac therapies are recommended at this time.



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)

info@SonoPath.com