



DATE PRESENTING CLINICAL SIGNS

12.1.25 History: Breed screen exam. Doing well. Hypothyroid; well regulated. History of proteinuria and mildly elevated liver enzymes that have resolved. PE WNL
 -Pertinent abnormal PE/Chem/CBC/UA Results: Hx of mildly elevated liver enzymes: ALT (12-118): 9/6/24 (145), 2/6/25 (N at 54), 9/11/25 (N at 54), Alk phos (5-131): 9/6/24 (141), 2/6/25 (260), 9/11/25 (N at 121). Hx of proteinuria: 2+ on 9/6/24, 2/6/25, 9/11/25, Urine protein/creatinine.

PATIENT

Asher Grskovich
 -Current medications: levothyroxine 0.6mg BID, SAM-e supplement, monthly preventatives
 -Sedation used: Midazolam/Torbugesic IV.

SPECIES

Canine
 -Pertinent previous ultrasound results: No previous.
 -STAT: Not requested.
 -Imaging performed by: Stephanie Warga RDCS, RVT.

BREED

Doberman Pinscher

SEX

MI

AGE

6.4.19

WEIGHT

83lbs

INTERPRETED BY

Maggie Machen Lamy,
 DVM, DACVIM
 (Cardiology)

HOSPITAL NAME

VCA Columbia at
 Centre Park

REFERRING VET

Dr. Springer

INVOICE

45946

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve with no obvious prolapse into the left atrial lumen. Trivial mitral regurgitation with a normal left atrial dimension. Normal LV diameter with adequate myocardial function. Normal LV wall thickness. The tricuspid valve is normal with no TR. Normal right atrial and ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. Normal aortic outflow velocities; laminar flow. Normal pulmonary outflow velocity with no pulmonic insufficiency. No pericardial or pleural effusion noted.

CARDIAC CHART

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	NA	NA	NM	1.3	30	60	NM
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	94	1.7	1.5	37.6	3.5	4.5	3.3
*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)
*Note: All measurements based upon multi-modal images and methods. An average value is reported.				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)

Adapted from June Boon, Veterinary Echocardiography, 1998
 Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435
 Hansson et al, Vet Rad and Ultrasound 2002
 Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cardiac structure and function in this patient are overtly normal, with no evidence of occult DCM or chronic valve disease. The function is reasonable for this signalment, and no significant valvular issues, structural changes or arrhythmias are readily apparent.

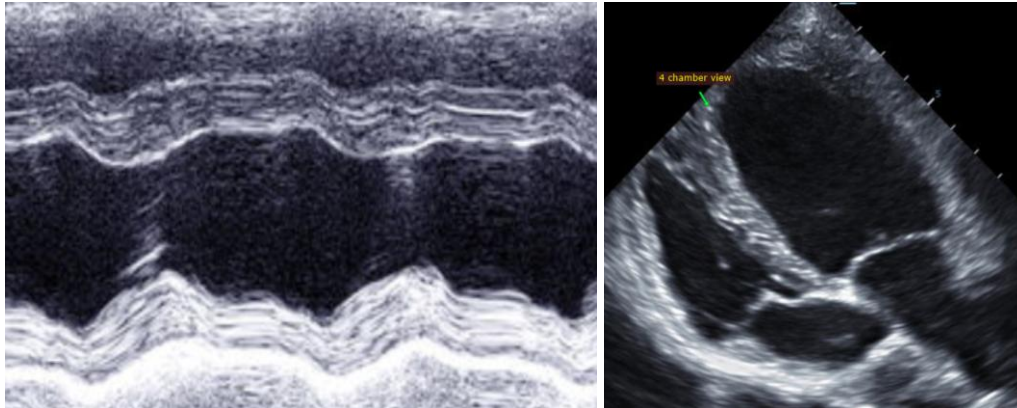
In this signalment, recheck echocardiograms are recommended every 6-12 months, particularly given genetic testing. Additionally, holter monitoring every 6-12 months should also be considered to screen for the arrhythmic form of disease. Finally, the BNP test has also been shown to be a decent predictor of occult DCM and can consider routine screening going forward.

No cardiac medications are indicated at this time. Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes. I generally recommend fish oil supplementation in any Doberman, given the anti-arrhythmic properties of omega fatty acids.

No cardiac contraindication for general anesthesia.

Recheck annually, sooner if clinical signs or a heart murmur arises.

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. This report was generated using transcription software, and minor dictation errors may be present. 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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