

PATIENT

Shadow Canadian Golden Rescue

SPECIES

Canine

BREED

Golden Retriever

SEX

Female

AGE

2 months

WEIGHT

20.1lbs

INTERPRETED BY

Maggie Machen Lamy, DVM, DACVIM (Cardiology)

IMAGING PERFORMED BY

Jacque Pankatz, DVM

HOSPITAL NAME

Mountain Vista Veterinary Hospital

REFERRING VET

Dr. Pankatz

INVOICE

30352

DATE

4/19/23

PRESENTING CLINICAL SIGNS

History: 1 of 2 pups left out of a litter of 6. 4 died (3 acutely and 1 was euthanized due to acute CHF) Patient is asymptomatic. No heart murmur. Rule out parvovirus myocarditis. Postmortem of two littermates confirmed myocarditis. Parvovirus via PCR on the heart muscle has been confirmed in one puppy.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve leaflets with no prolapse into the left atrial lumen. No obvious mitral regurgitation with a minimal left atrial dilation. The LV is borderline in both systole and diastole with mildly increased sphericity. The LV wall thickness is decreased. Borderline LV dysfunction is noted. The tricuspid valve appears normal with no tricuspid regurgitation. 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 pulmonic and aortic outflow velocities with laminar flow. No obvious aortic or pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

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	1.3	3.6	27	50	0.2
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	NM	1.2	1.0	9.1	1.9	3.2	2.2
*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)
<i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>				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)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The primary abnormality identified is borderline LV dysfunction with borderline LA and LV dilation. Given the history, this likely reflects mild damage secondary to the previous in-utero parvovirus infection. This does not appear to be a case of severe DCM, which is good news. That being said, this may be a progressive issue and monitoring is recommended. No additional issues are identified.



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A baseline Troponin (cTnI) may be beneficial in this case for serial monitoring.

No medications are clearly indicated at this time based upon mild abnormalities.

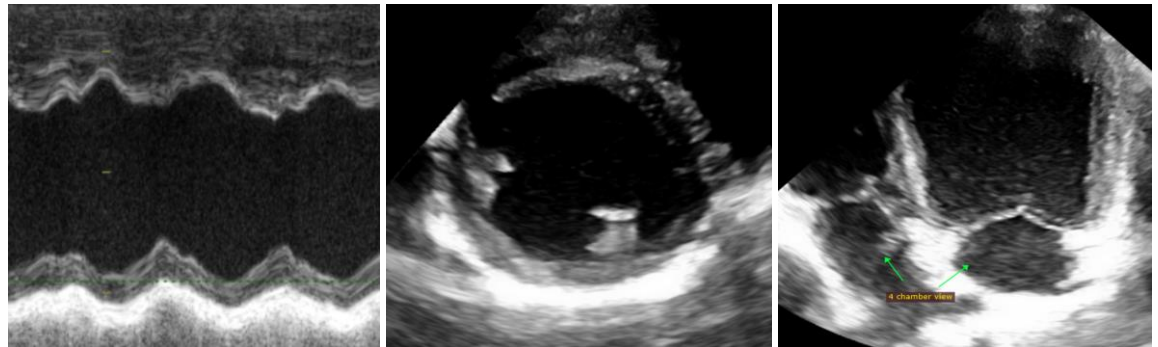
Monitor for development of a heart murmur, cough, labored breathing, exercise intolerance or collapse episodes.

PLAN

Consider a baseline cardiac Troponin level.

A recheck echocardiogram is recommended at 6-9 months of age, sooner if any clinical signs arise.

IMAGES



INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

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.

IMAGING PERFORMED BY

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