


PATIENT PRESENTING CLINICAL SIGNS

Spot Garcia History: Presenting for 2nd opinion - owner would like to have a dental procedure performed for Spot (prophy with extractions), however patient has a progressive anemia. Pain elicited on abdominal palpation today - unable to palpate thoroughly. Grade 1 left basilar systolic heart murmur, sinus arrhythmia found today.

SPECIES

Canine

BREED

CKCS

-Abnormal PE/Chem/CBC/UA Results: Mild anemia (HCT 36%) first identified 4/25/21 - BW abnormalities also incl M1 dec PLT (111), M1 dec Cre, M1 dec Ca, M2 inc K, Na/K 24, M1 inc ALP, M1 inc TG, M2 inc Lipase, TT4 WNL, HWT Negative BW repeated 9/20/21 - Progressive anemia (HCT 23%) and thrombocytopenia (36) BW repeated 3 d later on 9/23/21 - HCT 27%, PLT 129.

RADIOGRAPHIC FINDINGS *NOTE: Images submitted for supplemental cardiac information only.

SEX Normal cardiac silhouette. VHS: 10.25. No obvious evidence of CHF.

Male Neutered

ECHOCARDIOGRAM FINDINGS
AGE

12 years

2D, m-mode, color flow and doppler imaging is available. Mild diffuse thickening of mitral valve leaflets with no prolapse into the left atrial lumen. Trace/mild mitral regurgitation with no left atrial dilation. Normal MR velocity. Normal LV diameter with adequate myocardial function. The tricuspid valve appears normal with trivial tricuspid regurgitation. Normal velocity. 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 mildly elevated aortic outflow velocities with laminar flow. No obvious aortic and mild pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

WEIGHT

32.4lbs

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

CARDIAC CHART
IMAGING PERFORMED BY

Kelly Reschny, RVT

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	5.5	2.0	1.1	1.3	38	70	0.6
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	140	1.8	1.3	14.7	2.0	3.4	2.1
*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)

HOSPITAL NAME

Graham Animal Hospital

REFERRING VET

Dr. Sutton

INVOICE

21645

DATE

10/21/21

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



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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

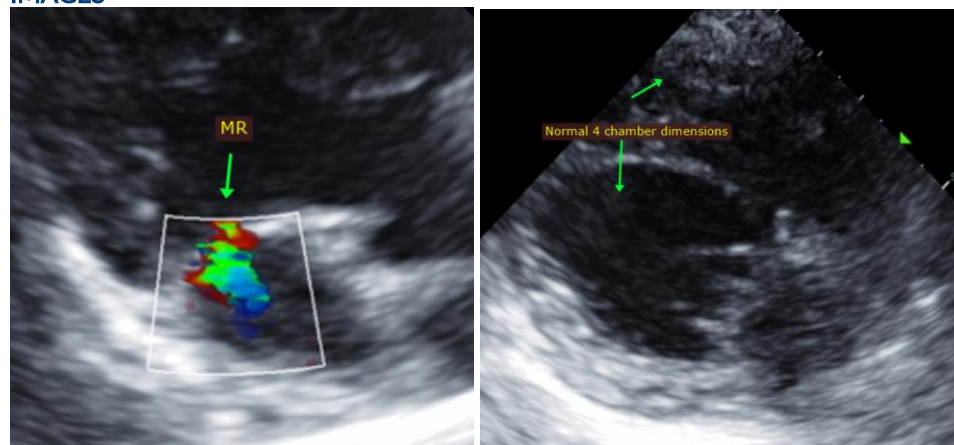
Chronic degenerative valve disease causing trace leaks in the mitral and tricuspid valves. It is suspected that these are not the genesis of a basilar murmur, with a mildly elevated aortic outflow velocity also present. This type of abnormality is benign and is likely secondary to anemia/ volume depletion. The overall cardiac dimensions and function are normal, indicating low risk for complication at this time. No additional issues are noted in this study.

Given these findings, no cardiac medications are clearly indicated. Assessment of progression in the future will help predict long term prognosis, which is highly variable at this stage. Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit. Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

No cardiac contraindication for general anesthesia prior to chamber enlargement.

Recommend conservative monitoring with a recheck echocardiogram in 6-12 months to screen for development of disease the pre-existing murmur may mask.

IMAGES



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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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