
PATIENT

Minnie McGregor

PRESENTING CLINICAL SIGNS

 History: Grade 4/6 murmur. Chronic cough worsening recently, increased frequency.
 -Abnormal PE/Chem/CBC/UA Results: ALT 3148

SPECIES

Canine

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Diffuse thickening of mitral valve leaflets with minimal prolapse. Suspect ruptured chordae tendineae (see below). Moderate eccentric mitral regurgitation with mild left atrial dilation. Normal MR velocity. Mild LV dilation with adequate myocardial function. The tricuspid valve appears normal with trace tricuspid regurgitation. Normal right atrial and ventricular diameter and morphology. 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.

BREED

Miniature Dachshund

SEX

Female Spayed

CARDIAC CHART
AGE

15 years

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	5.4	NM	NM	1.5	45	77	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	150	0.9	0.7	10.0	2.1	3.5	1.9
*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)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Chronic degenerative valve disease causing moderate mitral and trace tricuspid regurgitation is identified. Mild LA dilation indicates the risk for spontaneous congestive heart failure is relatively low; however, the finding of a possible ruptured chordae tendineae is somewhat concerning. No additional issues are identified.

INVOICE

29944

Given the echo findings, recommend institute cardiac supportive Pimobendan at this time as below. This is a conservative recommendation given the measurements. Assessment of progression in the future will help predict long term prognosis, which is guarded at this stage (B1/B2).

DATE

3/30/23

REFERRING VET

Dr. Webster

HOSPITAL NAME

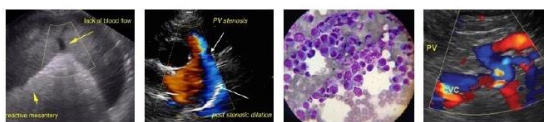
East Credit Veterinary Hospital

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Kelly Reschny, RVT



PATIENT

Minnie McGregor

While mainstem bronchi compression may certainly be contributing to a chronic increase in coughing, other primary airway contributions should also be considered (tracheal collapse, COPD/chronic bronchitis, etc). Consider hydrocodone for any mechanical component due to cardiomegaly. **Screening chest radiographs are recommended.**

SPECIES

Canine

Anesthetic risk is considered mildly elevated. Initiation of Pimobendan at least 1 week prior is recommended. Cardiac protective drug choices (opioid/benzodiazepine premedication, propofol or alfaxalone induction, isoflurane gas) are recommended. Pre-oxygenate for 5-10 minutes prior to induction. Monitor for arrhythmias, hypotension, and hypoxia both intra and post-operatively and intervene as necessary. Judicious IV fluid rates are recommended to avoid fluid overload. Avoid heart rate stimulating drugs such as atropine unless clinically indicated.

BREED

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Going forward, omega fatty acid supplementation and mild salt restriction may also be of some long-term benefit. Monitor for development of a progressive cough, labored breathing, exercise intolerance or collapse episodes.

AGE

15 years

PLAN

Institute Pimobendan 0.25-0.3mg/kg PO BID. Baseline BP and CXR recommended.

WEIGHT

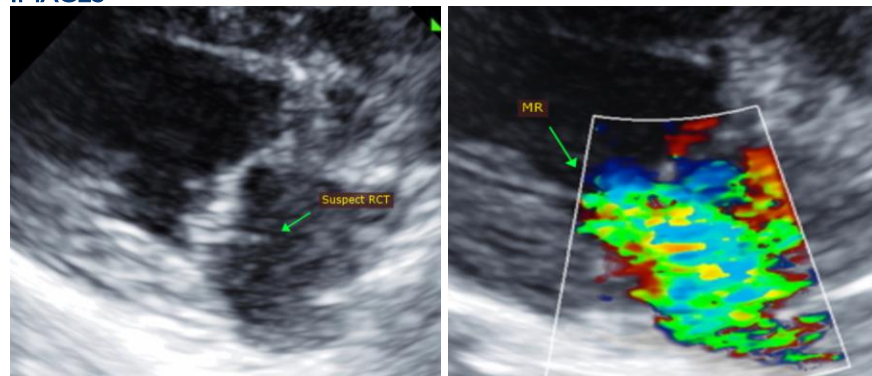
22lbs

A recheck echocardiogram is recommended in 6 months to screen for progression, sooner if clinical signs arise.

IMAGES

INTERPRETED BY

Maggie Machen Lamy,
DVM DACVIM
(Cardiology)



IMAGING PERFORMED BY

Kelly Reschny, RVT

HOSPITAL NAME

East Credit Veterinary
Hospital

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.

REFERRING VET

Dr. Webster

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.

INVOICE

29944

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DATE

3/30/23