



**PATIENT**

Sadie Desmond

**SPECIES**

Canine

**BREED**

Corgi Mix

**SEX**

Female Spayed

**AGE**

12 years

**WEIGHT**

24.3lbs

**INTERPRETED BY**

Maggie Machen  
 Lamy, DVM, DACVIM  
 (Cardiology)

**IMAGING PERFORMED BY**

Jenna Walsh, CVT

**HOSPITAL NAME**

Countryside Animal  
 Clinic

**REFERRING VET**

Dr. Cox

**INVOICE**

29519

**DATE**

3/9/23

**PRESENTING CLINICAL SIGNS**

History: Coughing, restless at night. Heart Rate: 120, Respiratory: Panting.  
 -Current medications: Carprofen PRN, Tramadol PRN, Welactin SID, Phycos Max SID.

**RADIOGRAPHIC FINDINGS** \*NOTE: Images submitted for supplemental cardiac information only.  
 Cardiomegaly. No obvious evidence of CHF.

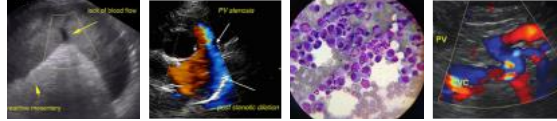
**ECHOCARDIOGRAM FINDINGS**

2D, m-mode and Doppler imaging are available. Diffuse thickening of mitral valve leaflets (anterior > posterior) with mild prolapse into the left atrial lumen. Severe eccentric mitral regurgitation with severe left atrial dilation. Severe LV dilation with mildly depressed myocardial function. The tricuspid valve appears mildly thickened, with trace tricuspid regurgitation. Normal velocity. Mild right heart enlargement. The pulmonic valve is normal in morphology and mobility. The aortic valve is thickened with mildly elevated velocity through the region. Normal pulmonic outflow velocities. Moderate AI. No PI. No pericardial or pleural effusion noted. No cardiac tumors observed.

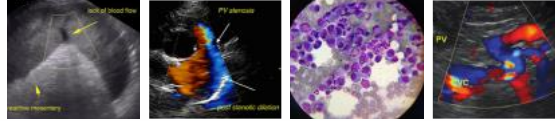
**CARDIAC CHART**

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	6.2	2.5	1.5	2.2	26	50	0.9
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	136	2.5	0.7	11.0	3.1	5.3	4.0
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
<b>BODY WEIGHT DEPENDENT PARAMETERS</b>				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
				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



<b>PATIENT</b>	<b><u>INTERPRETATION OF THE FINDINGS &amp; FURTHER RECOMMENDATIONS</u></b>
Sadie Desmond	Chronic degenerative valve disease causing severe mitral and trace tricuspid regurgitation. Significant LA and LV dilation indicates the risk for spontaneous congestive heart failure is elevated. Systolic dysfunction is noted, which is atypical of this signalment. Consider possible causes, such as an atypical diet or hypothyroidism. Finally, the aortic valve is thickened with mild stenosis apparent. While this in its self is clinically insignificant, there is a relative large aortic insufficiency that is concerning. A baseline BP is strongly recommended. No additional issues such are identified.
<b>SPECIES</b>	
Canine	
<b>BREED</b>	
Corgi Mix	The described cough is likely multi-factorial in origin, including a mechanical component due to cardiomegaly, possible concurrent airway disease and/or early CHF given the severity of disease. Even without obvious CHF on the films, given the symptoms and echo findings, full lifelong cardiac support is recommended as below including Lasix therapy. Depending on clinical response to the medications, cough suppression may also be useful. Monitoring of sleeping breathing rates in the future will be paramount to determine the origin of any future cough. The average survival of canine patients with active pulmonary edema is 8-9 months on medications, however they generally are able to maintain a good quality of life for that period. Patient will always be at risk for recurrent CHF, development of arrhythmias/LA tear, syncope and/or sudden death in the future. Monitoring of renal values is recommended lifelong.
<b>SEX</b>	
Female Spayed	
<b>AGE</b>	
12 years	
<b>WEIGHT</b>	
24.3lbs	Omega fatty acid supplementation and mild salt restriction may also be of some long-term benefit. Monitor for development of a worsening cough, labored breathing, exercise intolerance or collapse episodes.
<b>INTERPRETED BY</b>	<b><u>PLAN</u></b>
Maggie Machen Lamy, DVM, DACVIM (Cardiology)	Elective anesthesia is not advised, as there is high risk for complication. Risk: benefit ratio should be considered. Consider consultation with and/or referral to a facility with an anesthesiologist. Should you elect to proceed, cardiac protective drug choices (opioid/benzodiazepine premedication, propofol or alfaxalone induction, iso or sevoflurane gas) are recommended. Pre-oxygenate for 5-10 minutes prior to induction and recover in O2 cage. Monitor for arrhythmias, hypotension, and hypoxia both intra and post-operatively and intervene as necessary. Moderate IV fluid restriction is recommended to avoid fluid overload, while considering comorbidities, hydration status, BP, etc. Avoid heart rate stimulating drugs such as atropine unless clinically indicated.
<b>IMAGING PERFORMED BY</b>	
Jenna Walsh, CVT	
<b>HOSPITAL NAME</b>	
Countryside Animal Clinic	
<b>REFERRING VET</b>	
Dr. Cox	A renal panel and BP are recommended in 10-14 days, then every 3-4 months on diuretics to ensure tolerance of medications. If doing well at that time and BP >130mmHg, institute ACEI 0.5mg/kg PO q12h.
<b>INVOICE</b>	
29519	A recheck echocardiogram is recommended in 6 months to screen for progression, sooner if clinical signs arise/persist.
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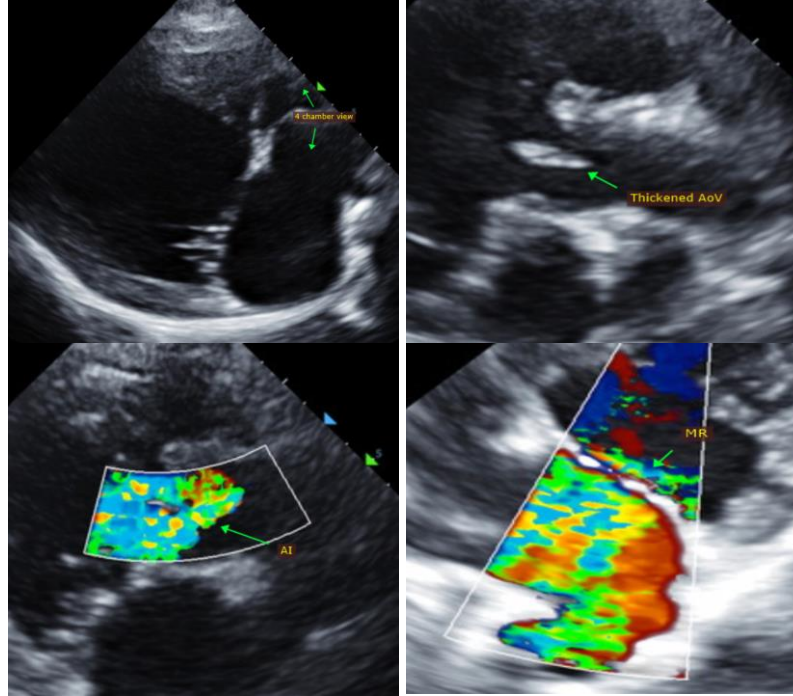
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**IMAGES**



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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.

Maggie Machen Lamy, DVM  
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)  
info@sonopath.com