



**PATIENT**

Tyson Tudor

**SPECIES**

Canine

**BREED**

Boxer

**SEX**

Male Neutered

**AGE**

10 years

**WEIGHT**

79lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

Sam Doverspike, DVM

**HOSPITAL NAME**

Franklin Animal Clinic  
Inc.

**REFERRING VET**

Dr. Doverspike

**INVOICE**

47131

**DATE**

3/5/26

**PRESENTING CLINICAL SIGNS**

History: Ascites; 3,500ml of a transudate removed. Arrhythmias diagnosed. ECG: HR of 180bpm, multiforme VPC's averaging 1:3 to 1:2 ratio with normal QRS complexes; R-R interval appears consistent; possible P waves present but the baseline has a lot of chatter.

**ECHOCARDIOGRAM FINDINGS**

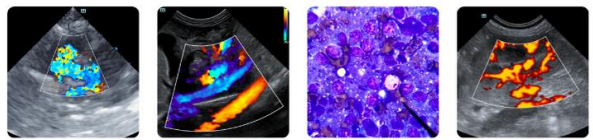
2D, m-mode, color flow and doppler imaging is available. Severe left ventricular dilation with diminished systolic function. Increased EPSS and increased sphericity. Decreased LV wall thickness. Severe left atrial enlargement. The mitral valve appears mildly thickened, with no obvious prolapse into the left atrial lumen. Moderate eccentric mitral regurgitation. Decreased MR velocity. The tricuspid valve appears mildly thickened. Moderate right atrial and ventricular dilation. Moderate tricuspid regurgitation. Velocity consistent with early pulmonary hypertension. Normal velocity. The aortic valve is normal with decreased outflow velocity. No AI. Normal pulmonic valve with decreased outflow velocity. No PI. Scant pericardial effusion. No pleural effusion noted. No obvious cardiac tumors.

**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)
<b>NORMAL PARAMETER</b>	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
<b>PATIENT</b>	4.6	3.0	2.0	2.6	13	27	1.3
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)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
<b>PATIENT</b>	NM	1.1	0.5	35.8	4.5	6.0	5.2
*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)
*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**

Unfortunately, this patient has end-stage cardiomyopathy and systolic dysfunction. This is causing dilation and volume overload of both the left and right heart and significant biatrial dilation. Moderate MR and TR are identified which are likely secondary to dilation; however, a component of valve disease cannot be ruled out. No concurrent issues are seen.



**PATIENT**

VPCs are noted in the history, and a further treatment may be necessary pending ECG evaluation.

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**SPECIES**

Systolic failure can be primary in nature (DCM) or secondary to taurine deficiency, hypothyroidism, myocarditis, tachycardia-induced cardiomyopathy, or infiltrative disease such as lymphoma. In a senior Box, primary DCM is certainly possible. Consider screening for any contributing issues, such as an atypical diet or hypothyroidism. Additionally, supplementing with Taurine is recommended. Thyroid status can be assessed, a cTnI submitted, etc., however prognosis at this stage is unchanged.

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Given the severity of disease seen here in addition to reported ascites, biventricular CHF is suspected, and treatment is recommended as below. No dyspnea is reported; however, should the patient become unstable, highly recommend hospitalization for oxygen support and IV therapy. Even if the response to medications is good, this patient will always be at high risk for recurrent CHF, development of syncope, malignant arrhythmias and/or sudden death going forward. The prognosis is poor at this stage in the disease process, with an average survival time of <6 months.

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Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit. Moderate activity restriction is advised. Monitor for development of a cough, worsening labored breathing, abdominal distention, exercise intolerance or collapse episodes in the future. Monitoring of sleeping breathing rates at home is recommended to assess response to medications and recurrence of CHF in the future.

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**PLAN:**

If patient appears unstable or tachypneic, highly recommend continued hospitalization for supportive care. Follow up for the arrhythmia should be dictated by the ECG report. Recommend the following oral medications: Institute aldosterone antagonist Spironolactone 1-2mg/kg PO q12h. Institute diuretic furosemide 1-2mg/kg PO q12h. Institute Pimobendan 0.3mg/kg PO q12h. Institute taurine supplement 1000mg PO q12h. Consider diet history, thyroid status, etc.

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Recommend recheck renal panel and blood pressure in 1-2 weeks to ensure tolerance to medications. If BP > 130mmHg and doing well at home, institute ACEI 0.5mg/kg PO q12h at that time.

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Recheck echocardiogram in 6 months, sooner if problems arise in the interim.

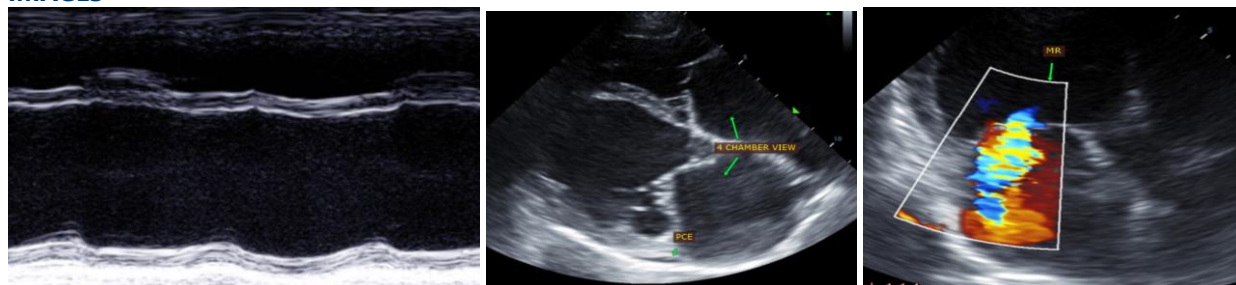
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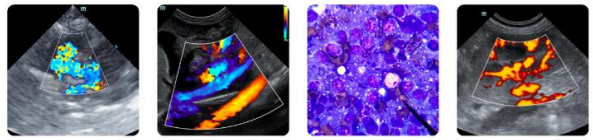
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**IMAGES**





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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)**

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