



**PATIENT**

Bowie Moriconi

**SPECIES**

Canine

**BREED**

Morkie

**SEX**

Spayed Female

**AGE**

10 Years 3 Months

**WEIGHT**

7.8 Pounds

**INTERPRETED BY**

Sara Brethel, DVM,  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Dr. Kimberly Morgan

**HOSPITAL NAME**

Seven Fields VH

**REFERRING VET**

Dr. Kimberly Morgan

**INVOICE**

37329

**DATE**

6/4/26

**PRESENTING CLINICAL SIGNS**

History: Presented at the end of May for vomiting, however she was in CHF. Started on Lasix and pimobendan; Echo completed today on treatment, patient is significantly improved. Abnormal PE/Chem/CBC/UA Results: Grade 3-4/6 HM PMI LA

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	--	--	NM	2.3	66.66	--	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LAD LA MAX 4 Chamber	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				
PATIENT	--	~0.5	~0.8	3.54	--	3.0	1.0

\*No other measurements were obtained.

**Cardiac Presentation**

The mitral valve leaflets are moderately thickened with moderate mitral regurgitation posteriorly directed. There is prolapse of the mitral valve leaflets and evidence of at least a partial chordal rupture. The left atrial size is severely increased. Left ventricular internal dimensions during diastole are increased and systolic function is preserved in the face of mitral regurgitation. There is normal right atrial size with mild tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension based upon tricuspid regurgitant velocities. The right ventricle subjectively appears normal in structure and function. The aortic and pulmonic valves have normal morphology, and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

**ULTRASONOGRAPHIC FINDINGS**

- Degenerative valve disease, ACVIM stage C
- Severe left atrial enlargement
- Suspect chordal rupture
- Tricuspid valve regurgitation



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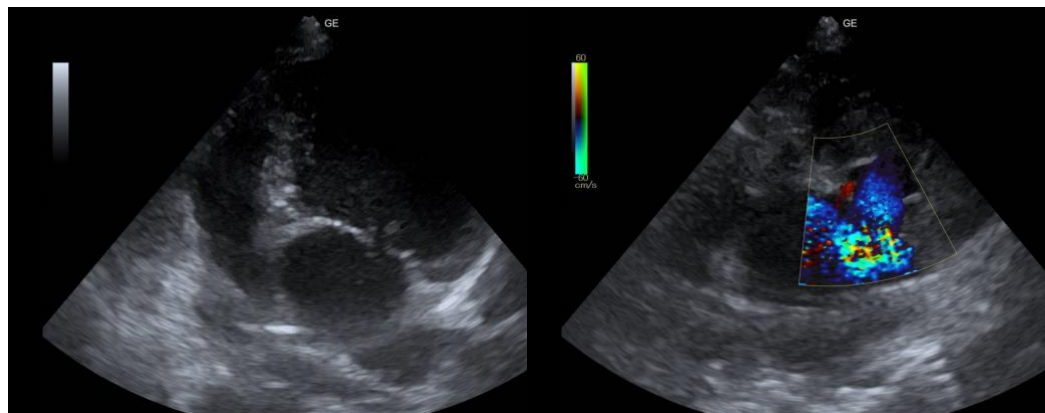
## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There are reported signs of congestive heart failure, and the patient has degenerative valve disease stage C. Furosemide and pimobendan therapy is recommended. Furosemide at a starting dose of 2mg/kg PO q12. Pimobendan therapy at a dose of 0.27-0.32mg/kg PO q12 is recommended. These will likely be lifelong therapies. Recheck chest radiographs is recommended in 7-10 days along with blood work and a blood pressure. If the patient is doing well and the kidney values are within normal limits, recommend starting an ACE inhibitor (enalapril or benazepril 0.5mg/kg POq12-24) and spironolactone (2mg/kg PO q24). 2-3 weeks after starting ACE inhibition, repeat kidney values are recommended. If the patient is doing well, a recheck echocardiogram is recommended in 4-6 months. Blood work to assess these patients is recommended every 4-6 months.

Recommend obtaining a blood pressure on the patient to ensure it is <160mmHg. If the blood pressure is elevated recommend following ACVIM guidelines for systemic hypertension and treating if indicated.

Elective anesthetic procedures are not recommended due to the severity of the heart enlargement.

The client should start monitoring respiratory rate and effort at home if not already doing so. The resting respiratory rate should be < 35-40 breathes/minute when the patient is resting or sleeping. If the breathing rates are increasing, then chest radiographs are recommended.



**The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

Dr. Name

[info@SonoPath.com](mailto:info@SonoPath.com)



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