



**PATIENT**

Sage Meyers

**SPECIES**

Canine

**BREED**

Chihuahua Mix

**SEX**

Spayed Female

**AGE**

12 Years

**WEIGHT**

33 pounds

**INTERPRETED BY**

Camden Rouben,  
DVM, DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

Arielle Roldan CVT

**HOSPITAL NAME**

Milford Animal  
Hospital

**REFERRING VET**

Dr. Sean Grasso DVM

**INVOICE**

12293

**DATE**

11/17/25

**PRESENTING CLINICAL SIGNS**

Presented last Friday for bleeding in the mouth, came in for a dental this morning and bloodwork shows anemia and thrombocytopenia confirmed via blood smear. Still actively bleeding from the mouth with no obvious cause. Radiographs show enlarged heart.

Abnormal PE/Chem/CBC/UA Results: Pro bnp: 3448.0 abnormal aPTT 33.9 seconds NL PT 17.2seconds NL

**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	--	57.14	--	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	NM	1.4	--	15.0	2.91	2.55	1.09

**Cardiac Presentation**

Based off the images provided, the mitral valve leaflets are within normal limits and there is no evidence mitral regurgitation. There is no prolapse of the mitral valve leaflets. The left atrial size is normal. Left ventricular systolic and diastolic function is within normal limits. There is normal right atrial size without evidence of tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension on today's evaluation. The right ventricle subjectively appears normal in structure and function. The aortic and pulmonic valves have normal morphology and the corresponding outflow velocities of at least the aortic valve appears within normal limits. There is no evidence of aortic insufficiency. The aorta appears normal. The pulmonary artery appears normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses based off the images provided.

**ULTRASONOGRAPHIC FINDINGS**

- Based off the images provided, this patient has a clinically healthy cardiac structure and function.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**



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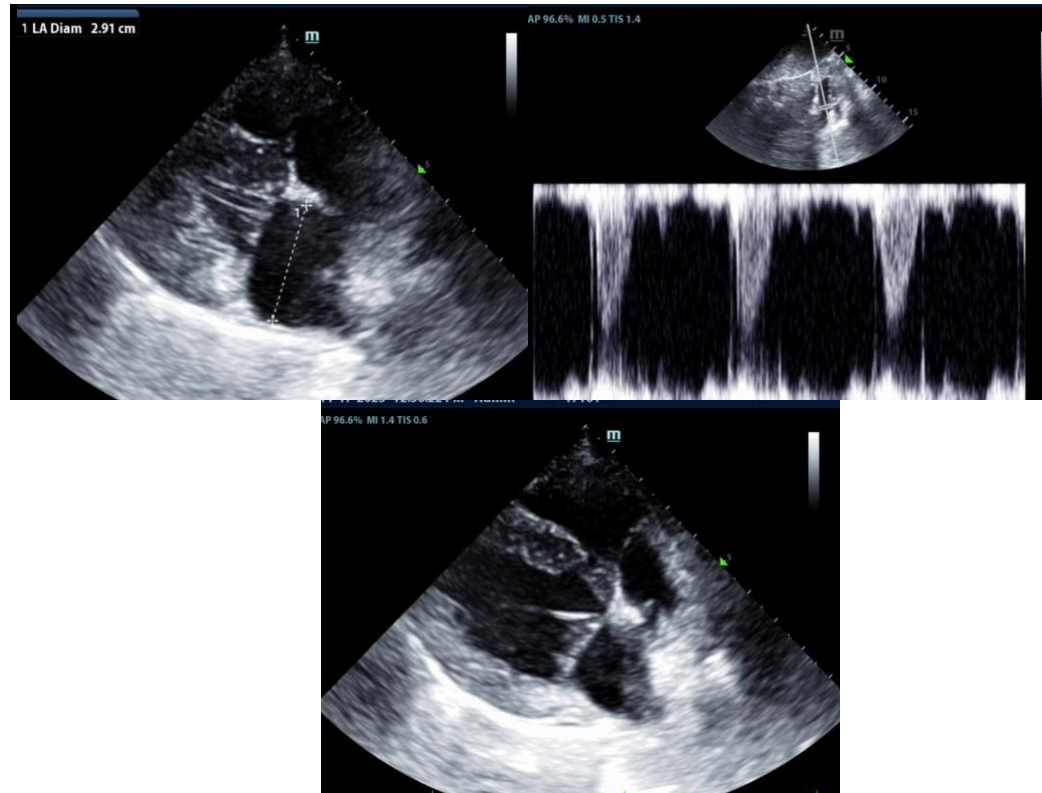
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No cardiac medications are warranted at this point in time. No recheck echocardiogram is warranted unless the patient develops cardiovascular clinical signs or a heart murmur is noted. Elective anesthetic procedures should be well tolerated. If not already performed, this patient's heart rate should be evaluated. Its blood pressure should also be evaluated as well. This patient's blood chemistry should be evaluated for any sort of azotemia at this point in time.



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.

Camden Rouben, DVM, DACVIM (Cardiology)

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