



**PATIENT PRESENTING CLINICAL SIGNS**

Toby Rivas History: cardiomegaly cough Current meds Enalapril Vetmedin Furosemide

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Canine The echocardiogram in this patient presented persistent volume overload of the left atrium and left ventricle with mitral and tricuspid insufficiency. The right ventricle and right atrium were also mildly enlarged. Prolapse of the anterior and septal leaflets of the mitral and tricuspid valve were noted. Minor pericardial effusion was noted, which may be owing to left atrial tear. Hepatic vein dilation is present owing to passive congestion. Secondary ascites was also present.

**BREED**

Maltese Mix

**SEX**

Male

**AGE**

11 years

**WEIGHT**

13 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

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			2.0	2.73	38	70	0.27
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				
PATIENT		1.1	1.0	13 lbs	4.08	3.53	

**IMAGING PERFORMED BY**

Jenn

**HOSPITAL NAME**

Rockaway AH

**REFERRING VET**

Dr. Maniar

**INVOICE**

91856

**DATE**

9/21/21

**ULTRASONOGRAPHIC FINDINGS**

Left and right-sided heart failure with pericardial effusion and passive congestion liver.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I am concerned for left atrial tear. This is a highly precarious presentation in this patient. I recommend continuation of the current triple therapy; however, increasing Vetmedin to t.i.d. dosing at 0.3 mg/kg is recommended as well as adding Spironolactone at 1-2 mg/kg b.i.d. and Sildenafil at 1 mg/kg b.i.d. for 2 weeks and then increasing to 1.5 mg/kg b.i.d. A recheck echocardiogram is recommended in 204 weeks. The prognosis is extremely guarded and the patient is at high risk for sudden death.



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Toby Rivas

**SPECIES**

Canine

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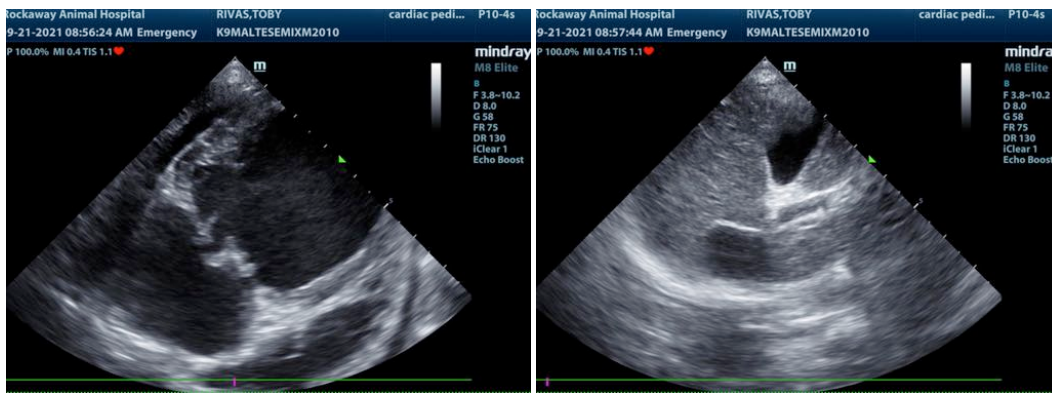
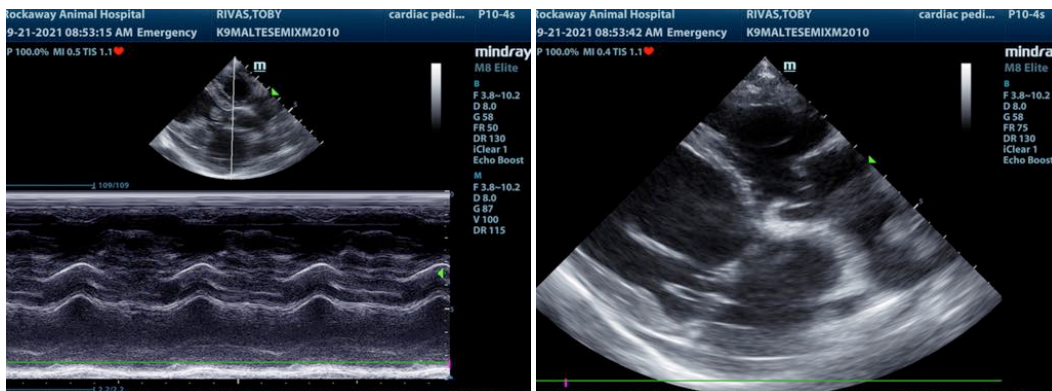
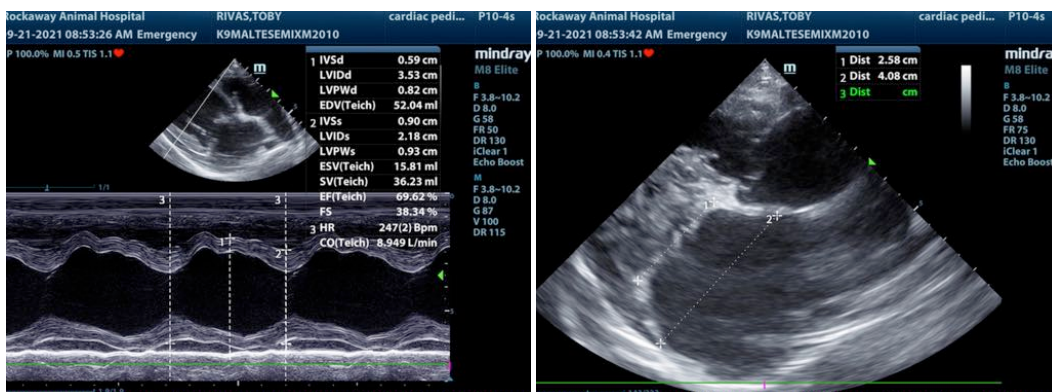
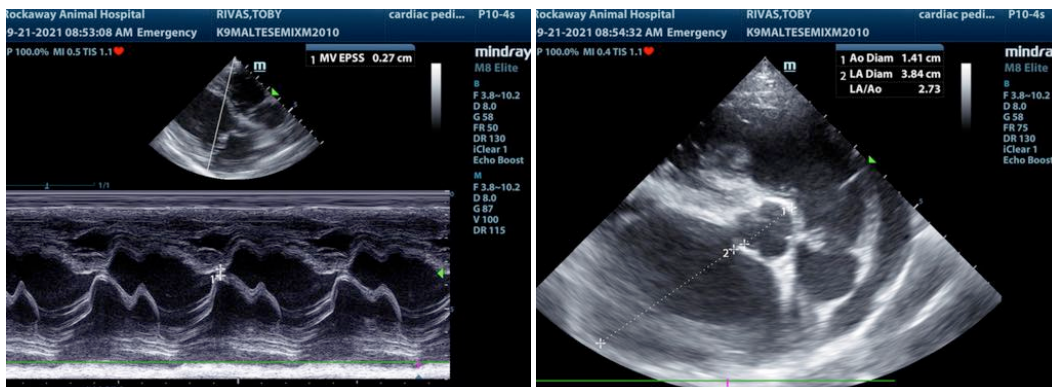
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**PATIENT**

Toby Rivas

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.

**SPECIES**

Canine

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.

**BREED**

Maltese Mix

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
info@SonoPath.com

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