

**PATIENT**

Delilah Mills

**SPECIES**

Canine

**BREED**

Yorkshire Terrier

**SEX**

Spayed Female

**AGE**

8 Years

**WEIGHT**

2.99 kg

**INTERPRETED BY**

Camden Rouben DVM,  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

Wilvet South

**REFERRING VET**

Echo Hollow  
Veterinary

**INVOICE**

15004

**DATE**

04/10/26

**PRESENTING CLINICAL SIGNS**

Clinical Exam Findings: Cardiac abnormalities, resp distress, tacky MM. ABNORMAL Labwork Values Pt has plural effusion, no prior hx of cardiac issues did have a dental done 4/9 and is now is resp distress. For ECHO Only: Blood Pressure: see chart. HR/RR/BP: 180/70/ no BP at this time. Is there a Heart Murmur? If so, please grade. 2-3 out of 6

Current Medications: Doxycycline (o unsure of mg) last given 4/9 at 2:30pm, Furosemide 50mg/ml inj last given at 8am, butpr[jamp; injection 10mg/ml last given at 6am

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

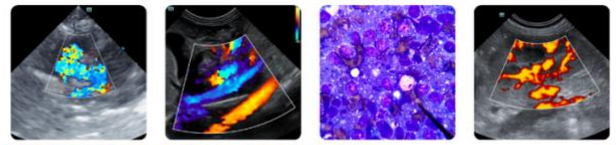
CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	--	--	1.23	1.05	82.69	99.25	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LAD 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	0.72	0.92	2.99	--	1.01	0.75

**Cardiac Presentation**

Based off of the images provided, the left atrium appears to be volume underloaded. The mitral valve leaflet appears of normal morphology. There's no evidence of mitral regurgitation. The left ventricle appears volume underloaded. There appears to be left ventricular pseudohypertrophy due to the volume underloading. The overall systolic function appears to be hyperdynamic. The diastolic function subjectively appears normal. The right atrium appears subjectively normal. Tricuspid valve also appears normal. There's no evidence of tricuspid regurgitation. The right ventricle subjectively appears normal in systolic function and diastolic function. The aortic valve appears to have normal morphology, and the corresponding outflow velocities appear within normal limits. Pulmonic valve also appears to have normal morphology. There's no evidence of pulmonic insufficiency. The pulmonic outflow velocity appears within normal limits. There's no evidence of pericardial effusion or abdominal effusion based off of the images provided. Based off of one of the images, there is concern for mild pleural effusion.

**ULTRASONOGRAPHIC FINDINGS**

- Based off of the images provided, this patient appears to have volume underloading of the heart and suspected mild pleural effusion.



**PATIENT**

Delilah Mills

**SPECIES**

Canine

**BREED**

Yorkshire Terrier

**SEX**

Spayed Female

**AGE**

8 Years

**WEIGHT**

2.99 kg

**INTERPRETED BY**

Camden Rouben DVM,  
 DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

Wilvet South

**REFERRING VET**

Echo Hollow  
 Veterinary

**INVOICE**

15004

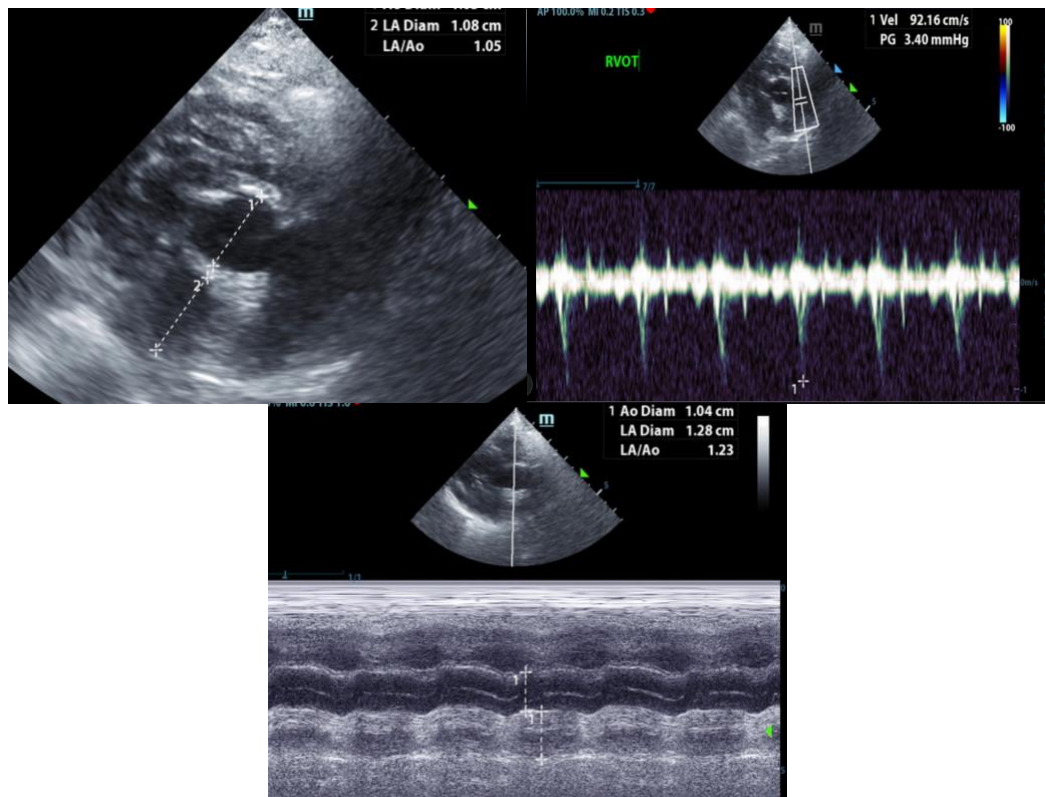
**DATE**

04/10/26

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Based off of the images provided, if this patient does have pleural effusion, it is unlikely to be caused by underlying cardiac disease. No cardiac medications are warranted. The use of furosemide should not be continued in this particular patient. A thoracocentesis should be performed in this patient to collect the pleural effusion, and the thoracocentesis fluid should be submitted for cytology and culture.

A CT scan should be considered in this patient to further understand the cause of the pleural effusion and rule out neoplastic causes. No recheck echocardiogram is warranted in this particular patient. The use of IV fluids is okay to do in this particular patient.

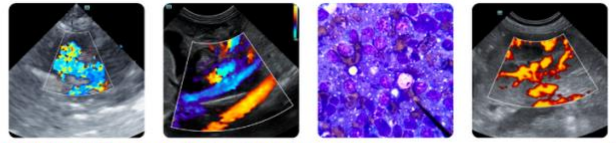


The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)



**PATIENT**

Delilah Mills

**SPECIES**

Canine

**BREED**

Yorkshire Terrier

**SEX**

Spayed Female

**AGE**

8 Years

**WEIGHT**

2.99 kg

**INTERPRETED BY**

Camden Rouben DVM,  
DACVIM (Cardiology)

**IMAGING  
PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

Wilvet South

**REFERRING VET**

Echo Hollow  
Veterinary

**INVOICE**

15004

**DATE**

04/10/26