


**PATIENT PRESENTING CLINICAL SIGNS**

Tyson Dodd History: Grade V/VI murmur. Recheck echo for MI, LAE, L sided heart failure and pulm hypertension. Current meds: Lasix 12.5mg 1.25 bid, Enalapril 2.5mg bid, Pimobendan 2.5mg 1/2 bid.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Canine

**BREED**

Dachshund

**SEX**

Neutered male

**AGE**

9 years

**WEIGHT**

11.8 lbs

**INTERPRETED BY**

 Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

Newton VH

**REFERRING VET**

Dr. Verhalen

**INVOICE**

94570

**DATE**

12/14/21

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Cardiac presentation in this patient presented progressive volume overload of the left atrium and left ventricle with persistent mitral valve prolapse. This represents decompensation compared to the prior sonogram. Mild to moderate volume overload of the right atrium was noted. The right ventricle was unremarkable. There was no pericardial effusion noted. Contractility appeared to be somewhat compensatory, yet slightly subnormal in contractility for this type of presentation>T this is indicative of likely emerging myocardial insufficiency. Tachycardia is present. B lines were noted in the peripheral lung fields. This is consistent with alveolar fluid. The hepatic veins were slightly dilated.

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
<b>CARDIAC PARAMETERS</b>	<b>VMAX</b> (m/s)	<b>VMAX</b> (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
<b>NORMAL PARAMETER</b>	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
<b>PATIENT</b>	5.29	3.0	2.4		40	80	0.2
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
<b>CARDIAC PARAMETERS</b>	(BPM)	<b>VMAX</b> (m/s)	<b>MAX</b> (m/s)		2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6				
<b>PATIENT</b>	164	1.11		11.8 lbs	4.15	3.4	

**ULTRASONOGRAPHIC FINDINGS**

Decompensated left-sided heart failure with emerging pulmonary hypertension.

Stage C1 valvular disease progressing to potentially D1.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I recommend adjustment to the current protocol. Target respiratory rate of less than 20/minute is recommended. Blood pressure measurements should be monitored and maintained less than 160 systolic. Given the current protocol Lasix, Enalapril and Pimobendan I recommend increasing Pimobendan at 0.3 mg/kg t.i.d. Adding Spironolactone at 1-2 mg/kg b.i.d. and Lasix can be increased up to 3 mg/kg b.i.d. Ace inhibitor should be continued. Renal values and blood pressure measurements should be monitored carefully. Recheck echocardiogram is recommended in a month. Guarded prognosis.



**PATIENT**

Tyson Dodd

**SPECIES**

Canine

**BREED**

Dachshund

**SEX**

Neutered male

**AGE**

9 years

**WEIGHT**

11.8 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

Newton VH

**REFERRING VET**

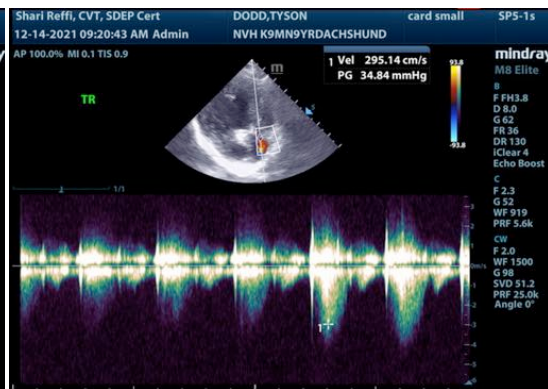
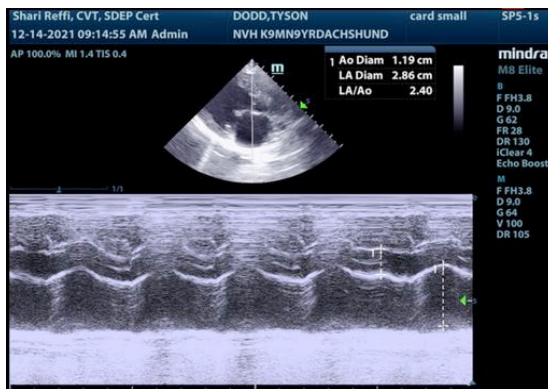
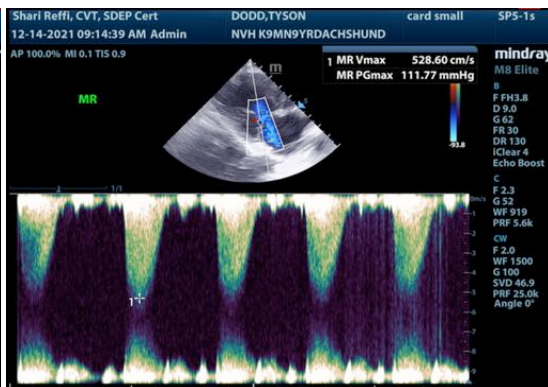
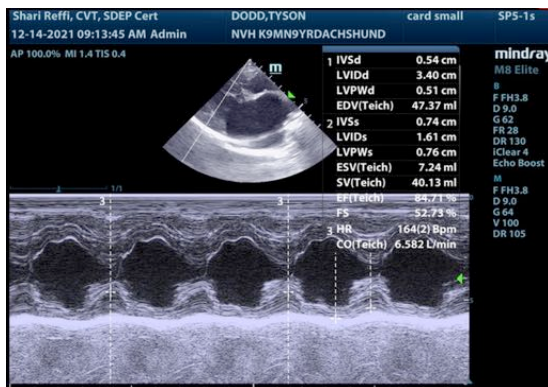
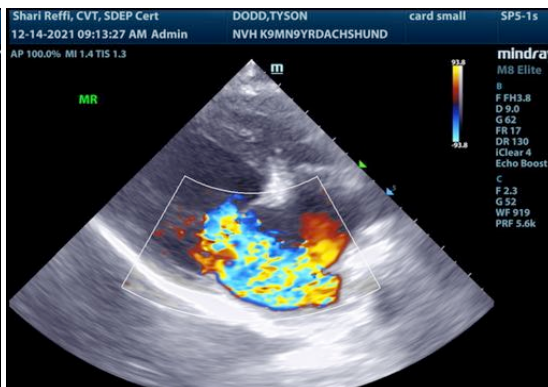
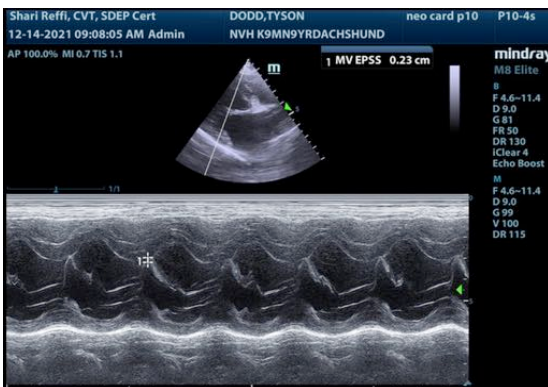
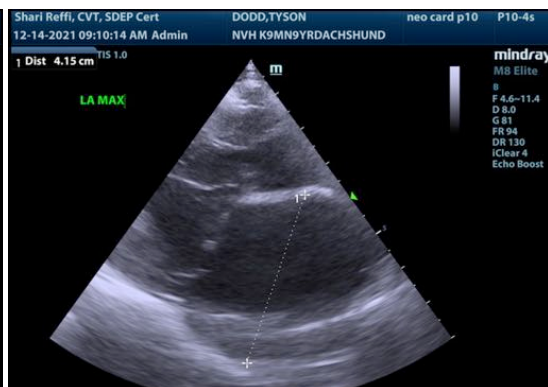
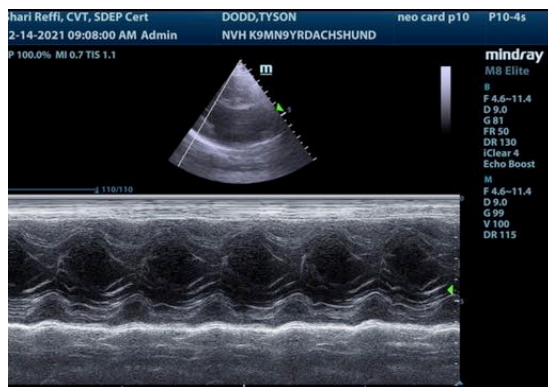
Dr. Verhalen

**INVOICE**

94570

**DATE**

12/14/21





**PATIENT**

Tyson Dodd

**SPECIES**

Canine

**BREED**

Dachshund

**SEX**

Neutered male

**AGE**

9 years

**WEIGHT**

11.8 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

Newton VH

**REFERRING VET**

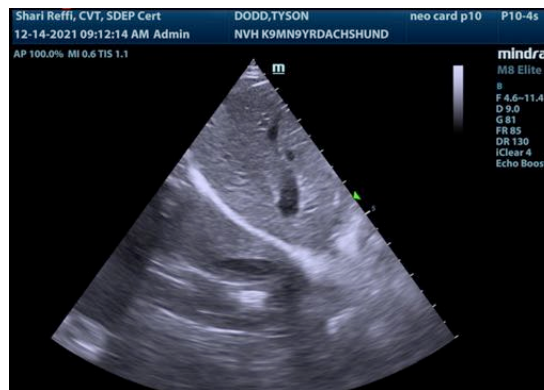
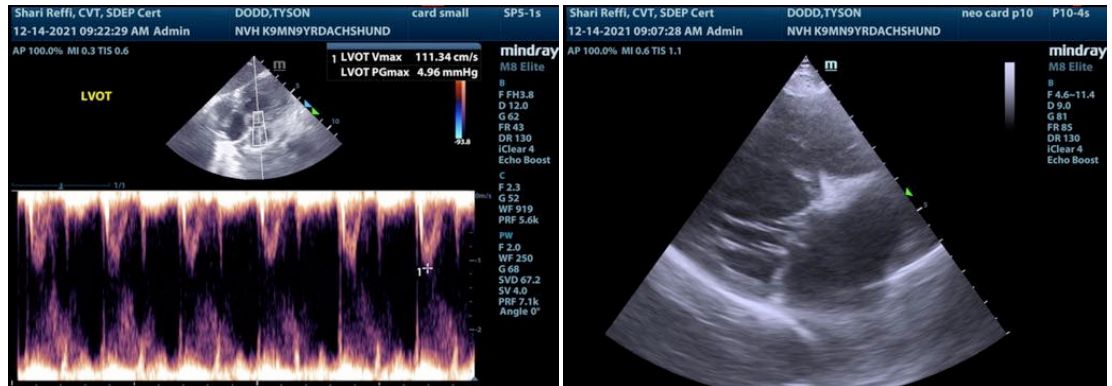
Dr. Verhalen

**INVOICE**

94570

**DATE**

12/14/21



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

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