



PATIENT

Wilbur Deur

SPECIES

Canine

BREED

Welsh Terrier

SEX

Male

AGE

5 months

WEIGHT

14 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Julie McGhan, DVM

HOSPITAL NAME

Haven AH

REFERRING VET

Dr. McGhan

INVOICE

73957

DATE

3/31/26

PRESENTING CLINICAL SIGNS

- Grade III/VI murmur, systolic, parasternal
- normal activity at home

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** insufficiency was noted. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary artery** was slightly dilated in this patient. No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window. Periodic arrhythmia was noted during the exam.

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO	LA/AO (Heart Base)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	-	-	1.1	1.4	35	80	0.1
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	BELOW	BELOW	BELOW	BELOW
PATIENT	80	-	-	14 lbs	2.0 max	2.6	

ULTRASONOGRAPHIC FINDINGS

Largely normal echocardiogram with clinically insignificant heart murmur. However, further definition is necessary.

Trivial tricuspid insufficiency.



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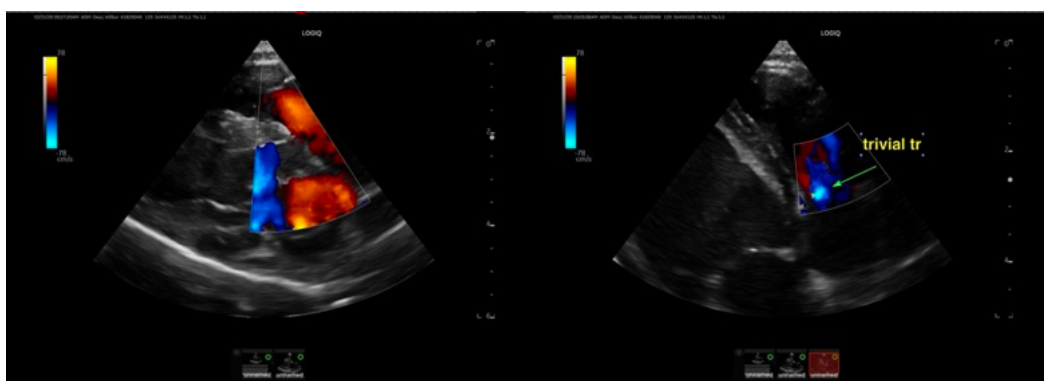
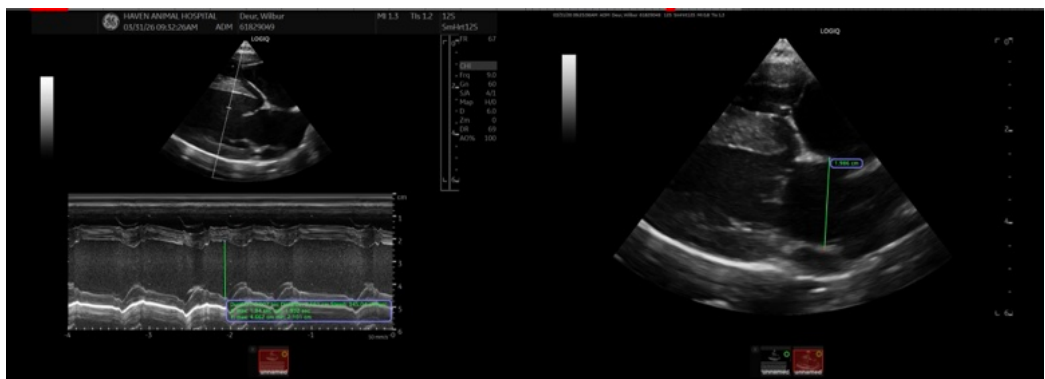
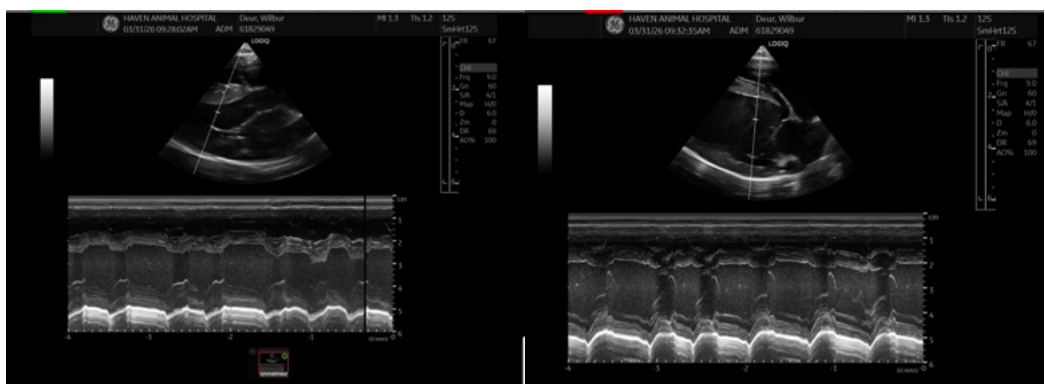
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no gross evidence of volume overload or pressure overload in this patient. The exact cause of the murmur is unclear. There is trivial tricuspid insufficiency, yet there is likely a more significant murmur present. Spectral and color flow Doppler evaluation of the pulmonic and aortic outflow as well as the deep pulmonary artery is recommended to assess pulmonic stenosis, aortic stenosis or PDA. Further color flow assessment of the ventricular septum is also indicated to ensure that a small VSD is not present, yet not suspected. There is no overt contraindication to anesthetic procedure if necessary at this time.





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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.

Eric Lindquist, DMV, DABVP (CFM), Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com

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