



PATIENT

Tank Duffy

SPECIES

Canine

BREED

Mastiff

SEX

Neutered male

AGE

4 years

WEIGHT

140 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Pfannenstiel

HOSPITAL NAME

Mill Brook Animal
Clinic VBF

REFERRING VET

Dr. Pfannenstiel

INVOICE

69405

DATE

12/8/25

PRESENTING CLINICAL SIGNS

History: HW pos; suspect Wobblers; intermittent murmur (ER resident hear it, neither I nor my AI did).

Abnormal PE/Chem/CBC/UA Results: Complete Blood Count (CBC) (11/22/25): Hematocrit: 35.5% (Low; ref 37.3-61.7%) Hemoglobin: 12.3 g/dL (Low; ref 13.1-20.5 g/dL) Reticulocytes: 3.5 K/ μ L (Low; ref 10.0-110.0 K/ μ L) Interpretation: Mild, non-regenerative anemia. All other CBC values were within normal limits. Chemistry Panel (11/22/25): Total Protein: 8.3 g/dL (High; ref 5.2-8.2 g/dL) Globulin: 5.4 g/dL (High; ref 2.5-4.5 g/dL) All other chemistry and electrolyte values were within normal limits.

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** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). 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.

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	30	60	0.1
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	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	-	0.8	140 lbs	5.4 max	5.2	



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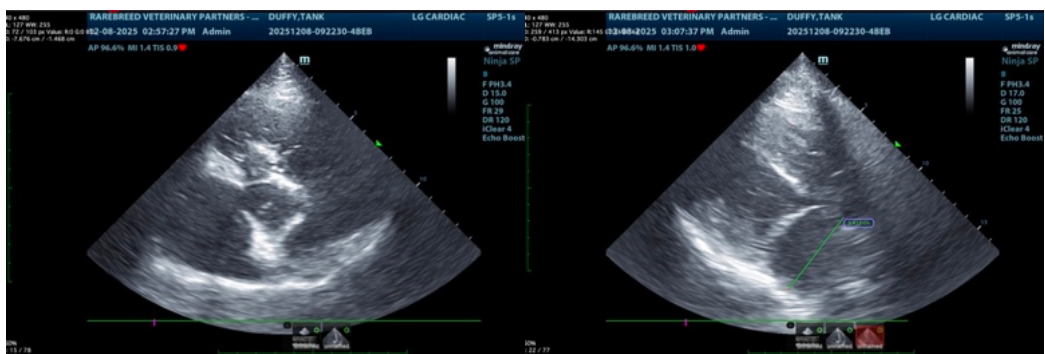
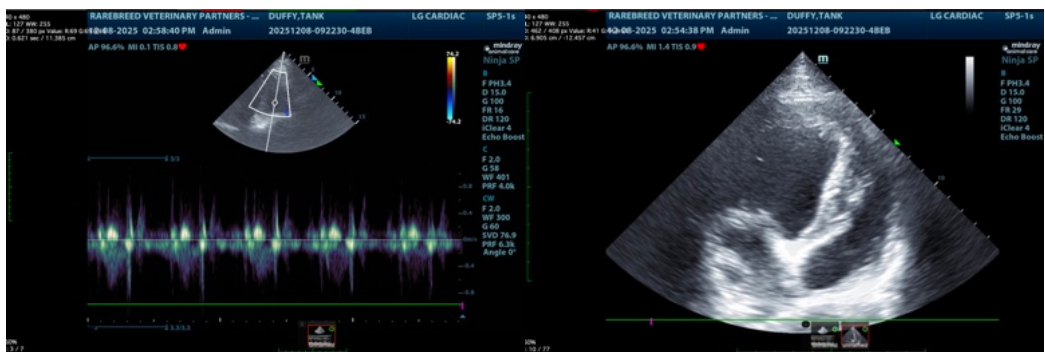
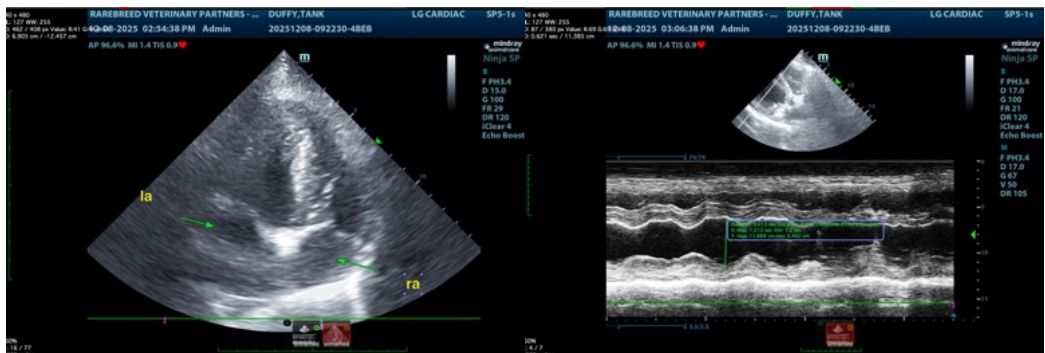
12/8/25

ULTRASONOGRAPHIC FINDINGS

Normal echocardiogram, no evidence of heartworm infestation and no evidence of cardiac dysfunction.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no evidence of microscopic heartworm.





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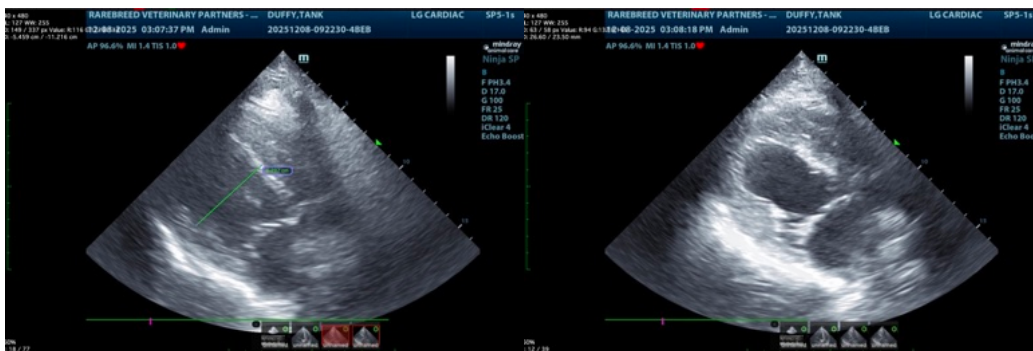
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com