



**PATIENT**

Grandmama Real Dog  
Rescue

**SPECIES**

Canine

**BREED**

Beagle

**SEX**

Spayed Female

**AGE**

12 Years

**WEIGHT**

Not Provided

**INTERPRETED BY**

R. McKenzie Daniel,  
DVM, DABVP (Canine  
/ Feline Practice)

**IMAGING PERFORMED BY**

Kerri Becker

**HOSPITAL NAME**

Bergen County VC

**REFERRING VET**

Dr. Santo

**INVOICE**

12293

**DATE**

11/17/25

**PRESENTING CLINICAL SIGNS**

Coughing, HW +, lethargy, inappetence, harsh lung sounds crackles, inc resp effort and rate. Finished 1 month doxy Baytril and Amoxi.

Abnormal PE/Chem/CBC/UA Results: HCT-39.4 WBC-18.8 Neut-11 mono-1.12 eos-3.76 tp-7.8 glob-5

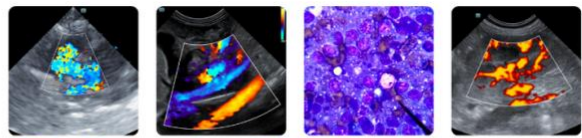
**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

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	--	--	NM	1.3	46	78	0.26
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	139	1.2	1.2	--	2.8	2.5	--

**Cardiac Presentation**

The echocardiogram in this patient demonstrated normal **left atrial** size and structure. Chamber volume and blood echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented minor irregular age-related changes that are not clinically significant at this time with adequate extension in systole and union in diastole. No overt significant MR on doppler. The **left ventricle** presented normal free wall and septal thicknesses with linear contour. The **myocardium** presented some echogenic remodeling consistent with expected age-related change. **Contractility** of the ventricular walls was adequate and in normal range for this breed and patient size. The **left ventricular outflow** tract demonstrated normal laminar flow with subjectively unremarkable structure. Subjective assessment of the **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated expected findings for this age patient. Minor TR on doppler. The **right ventricle** was of normal size (1/3 diameter of LV), echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and mild increased diameter compared to the aorta. Pulmonary artery measured approximately 1.8 cm in diameter. Heartworms were present in the deep pulmonary artery. No visible **pericardial** or free pleural fluid was noted. The **mediastinum** was free of masses in the visible window.

**ULTRASONOGRAPHIC FINDINGS**



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- Heartworms visible in the deep pulmonary artery with mild increased pulmonary artery diameter.
- Otherwise, normal cardiac structure/function.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No current evidence of significant right heart chamber enlargement or pulmonary hypertension. Coughing secondary to heartworm disease and potential clinical signs associated with generalized respiratory disease is suspected. No indication for cardiac medications. Continued respiratory support and therapy for heartworm disease is recommended. Recheck echocardiogram is recommended if future or progressive signs of right sided heart disease.



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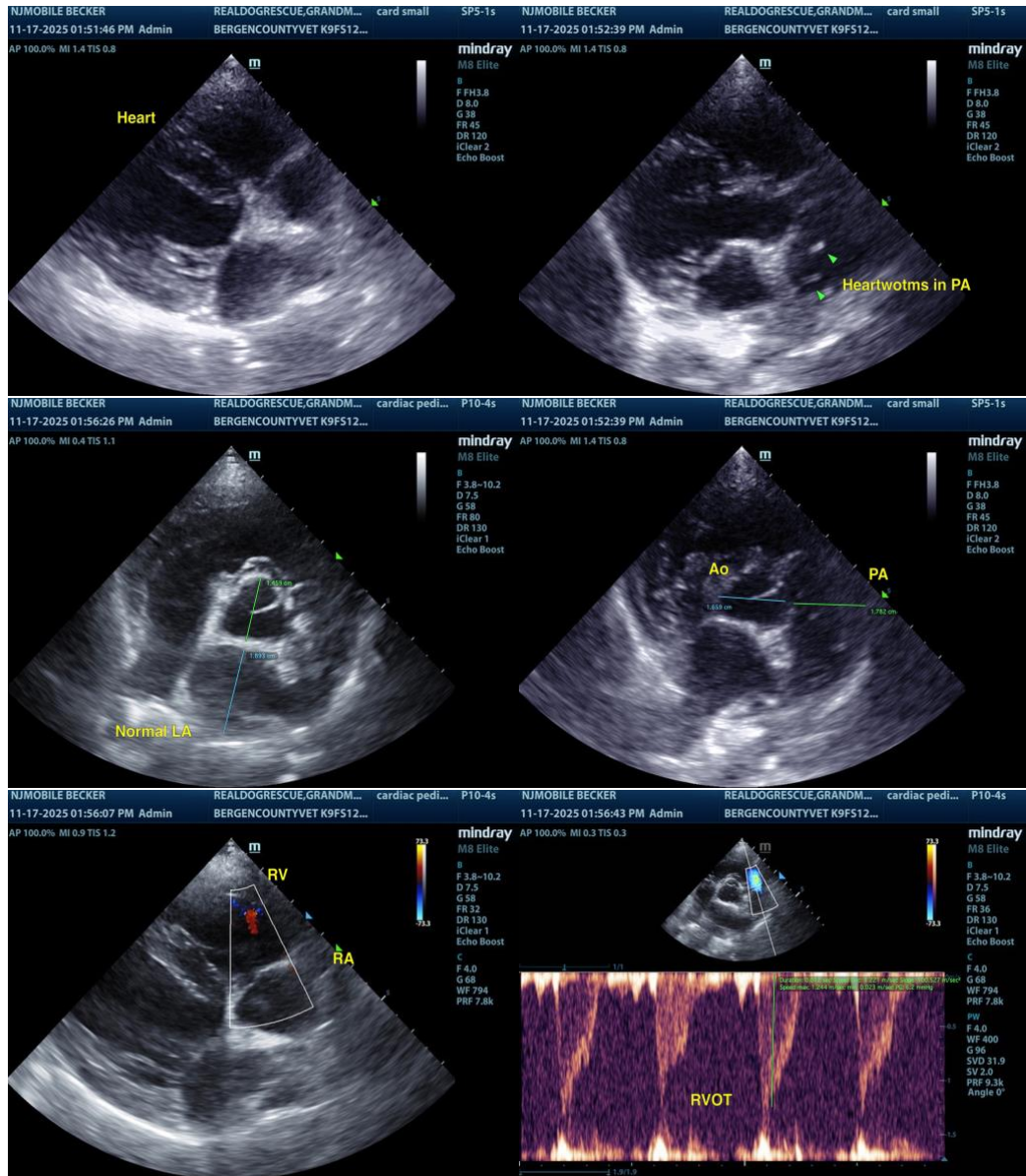
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

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