



PATIENT

Apple Rose Hicks

PRESENTING CLINICAL SIGNS

recheck echo, previous done 12/23/20. O reports some coughing

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Golden Doodle

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	2.7		NM	1.3	33.3	65.6	0.27
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				
PATIENT	145	1.9	1.0		3.2	3.3	

SEX

Intact Female

AGE

13 Years

WEIGHT

N/A

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. 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. No overt evidence of previously noted mildly thickened aortic valve. 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. Color doppler assessment revealed mild tricuspid valve insufficiency. 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 diameter (approx. 1:1 pa/ao ratio). No dilation due to heartworm disease, cuor pulmonale, stenosis, or pulmonic hypertension was noted. No visible **pericardial** or free pleural fluid was noted. The **mediastinum** was free of masses in the visible window.

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP (Canine and Feline)

IMAGING PERFORMED BY

Diane McFadden

HOSPITAL NAME

North Warren AH

REFERRING VET

Dr. Corrado

ULTRASONOGRAPHIC FINDINGS

- Overtly normal cardiac structure and function for age
- Tricuspid valve insufficiency – estimated pulmonary pressure gradient not consistent with overt or clinical pulmonary hypertension.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

DATE

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Essentially static cardiac presentation compared to the previous echo without evidence of progression. The tricuspid valve insufficiency is not likely audible. Physiologic flow murmur or small flow abnormality not seen here suspected if a persistent murmur is present. Regardless, the lack of left or right heart



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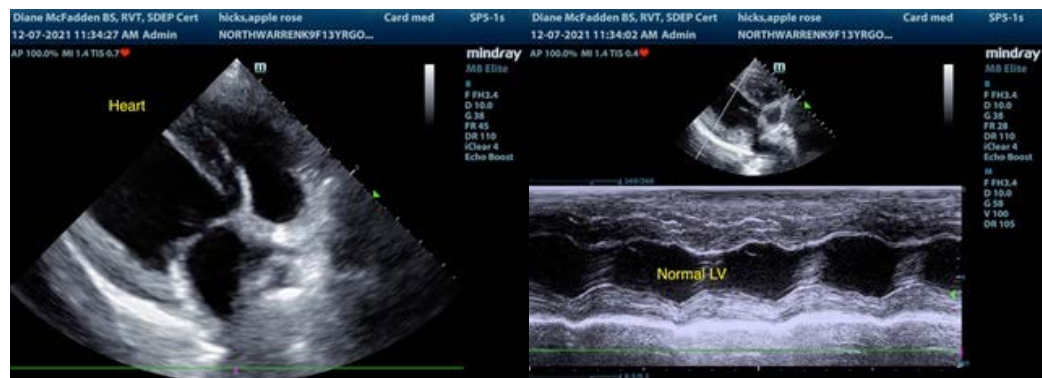
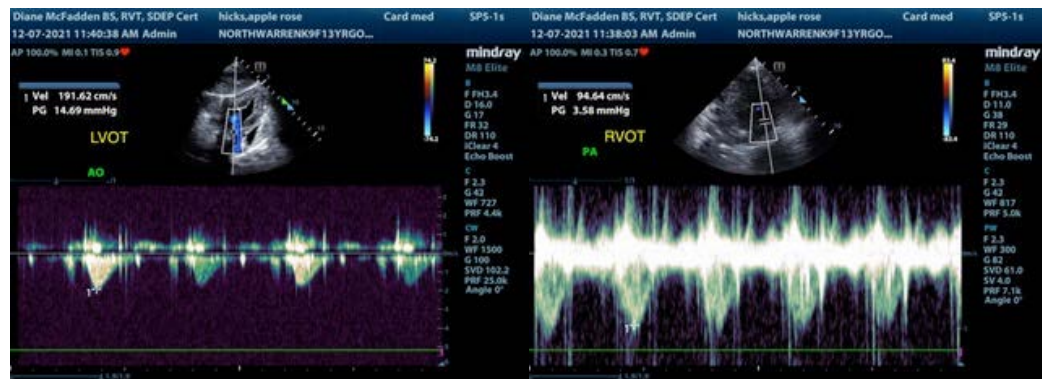
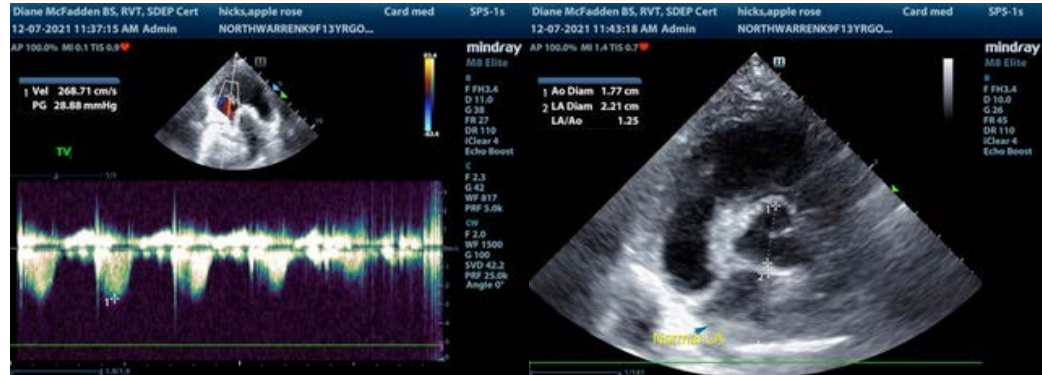
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Dr. Corrado

chamber enlargement indicates that the risk for current and future complication remains low. The lack of systolic dysfunction, significant chamber enlargement, or overt clinical pulmonary hypertension indicate that the coughing in this patient is most likely non-cardiogenic in origin. 3-view chest radiographs (if not done) may be considered to assess for evidence of primary lower airway disease. No indication for cardiac medications. Recheck echocardiogram suggested in 6 months, sooner if clinical signs suggestive of heart disease (i.e., exercise intolerance, syncope, etc. are noted).



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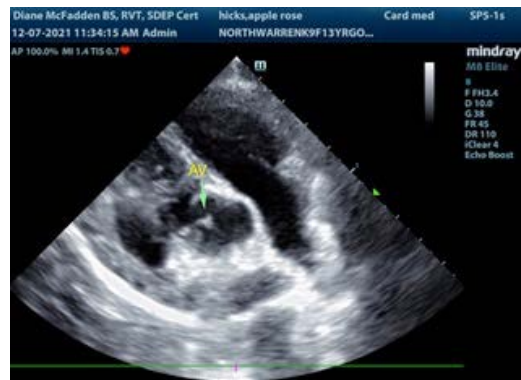
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

AGE

13 Years

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.

WEIGHT

N/A

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