



PATIENT

Allie Onufer

SPECIES

Canine

BREED

Boxer mix

SEX

Spayed female

AGE

9 years

WEIGHT

74.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Rockaway AH

REFERRING VET

Dr. Harrs

INVOICE

77672

DATE

5/18/26

PRESENTING CLINICAL SIGNS

History: recheck boxer ARVC 9/29 Stage B1 MMVD and ARVC On Sotalol 60mg BID now coughing panting excessively , collapse episode xrays suspect perihilar congestion severe R ventricular enlargement

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated slightly enlarged **left atrium**. **Mitral** valve insufficiency was noted. 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. Paroxysmal arrhythmia was noted.

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	-	-	2.13	1.66	30		0.56
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	110	-	0.6	74.5 lbs	4.5	4.4	

ULTRASONOGRAPHIC FINDINGS

Mitral insufficiency and minor left atrial enlargement.

Paroxysmal arrhythmia is likely given the patient's history.

Early stage B2 valvular disease.



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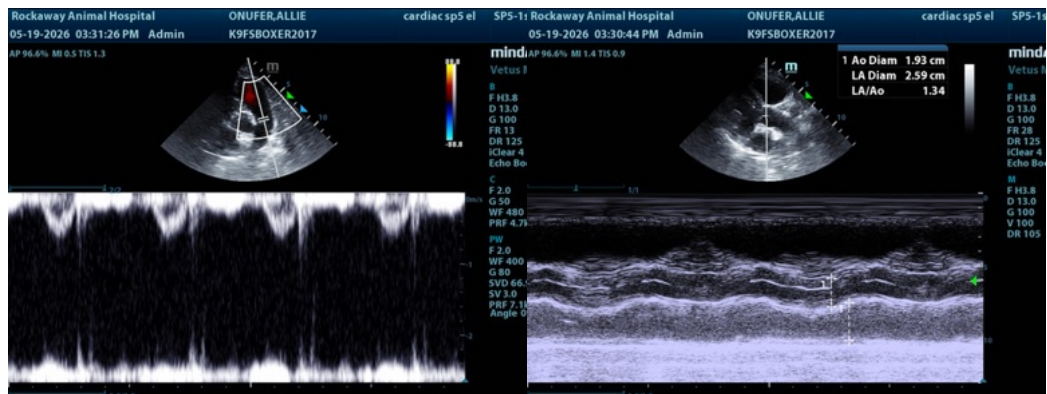
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is not significant right ventricular enlargement noted on echocardiogram. However, given the mild left atrial enlargement, I recommend initiating Pimobendan at 0.3 mg/kg b.i.d. Radiological evaluation of the chest are recommended to ensure that other disease is not playing a role. I do not feel that the left atrial size is excessive enough to be causing left sided heart failure. However, it is slightly enlarged. Holter monitor would be indicated for further definition to assess the effectiveness of Sotalol or if other antiarrhythmics are necessary.



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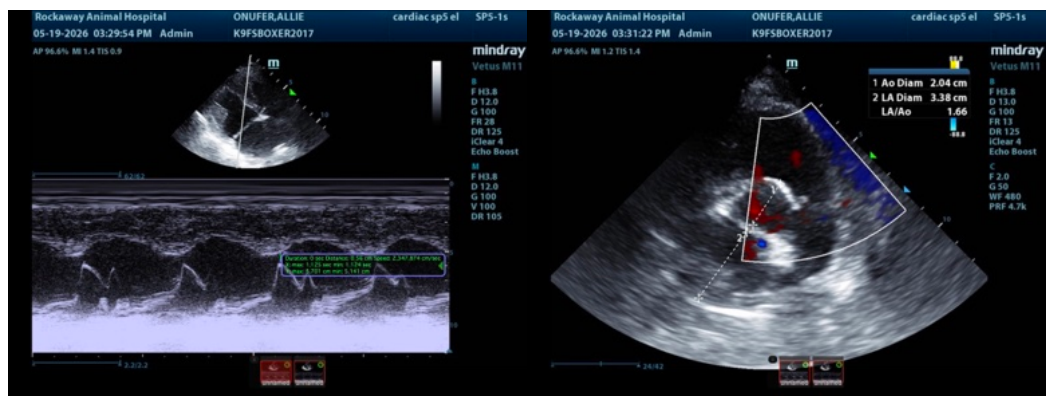
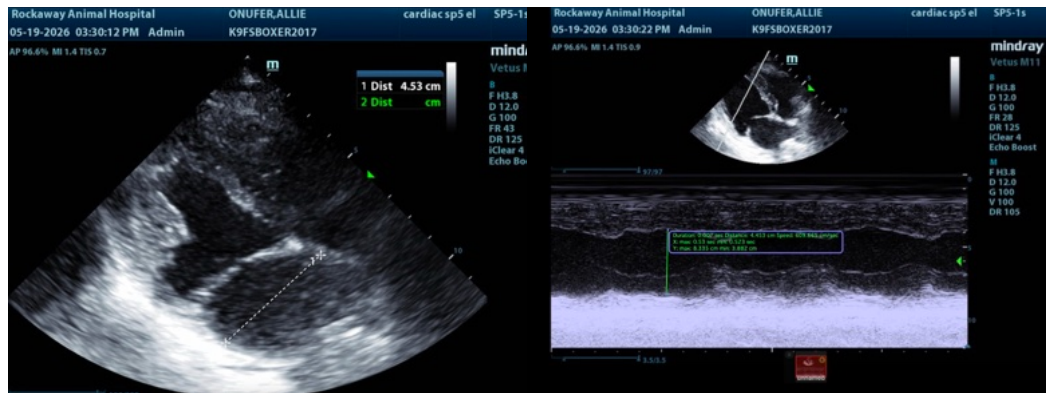
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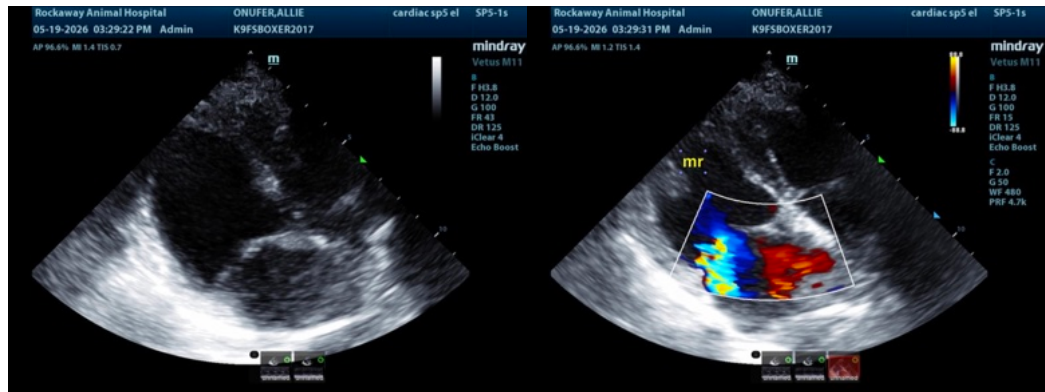
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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 (CFM), Cert. IVUSS, CEO of SonoPath.com

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