



## PATIENT

Jagger Diaz Lopez

## SPECIES

Canine

## BREED

Mixed Lab

## SEX

Neutered Male

## AGE

10 Years

## WEIGHT

63 Lbs.

## INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Dr. Gabriel Farrer,  
DVM

## HOSPITAL NAME

Pulse Pet US

## REFERRING VET

Dr. Javier Rodriguez

## INVOICE

13441

## DATE

1/14/22

## PRESENTING CLINICAL SIGNS

History: Jagger presented for an echocardiogram. PT presented to current Veterinarian with history of coughing, and the previous veterinarian prescribed cardiac medication to treat the cough. Current Veterinarian did not auscultated a heart murmur and no wheezing or crackles were noticed on lung auscultation. Want to evaluate to determine if this patient has cardiac abnormalities that will require the cardiac medications this patient is currently taken prescribed by previous veterinarian. Current medications are: Furosemide 20 and 40 mg (total 60mg) BID Enalapril 10mg BID

Abnormal PE/Chem/CBC/UA Results: NO heart murmur noticed NO abnormal lung sounds (wheezing or crackles)

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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	--	--	1.2	1.3	37	67	0.4
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	--	1.00	0.89- 0.93	--	3.0	3.85	--

## Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The **mitral** valve was slightly thickened in this patient yet no significant insufficiency present. 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.



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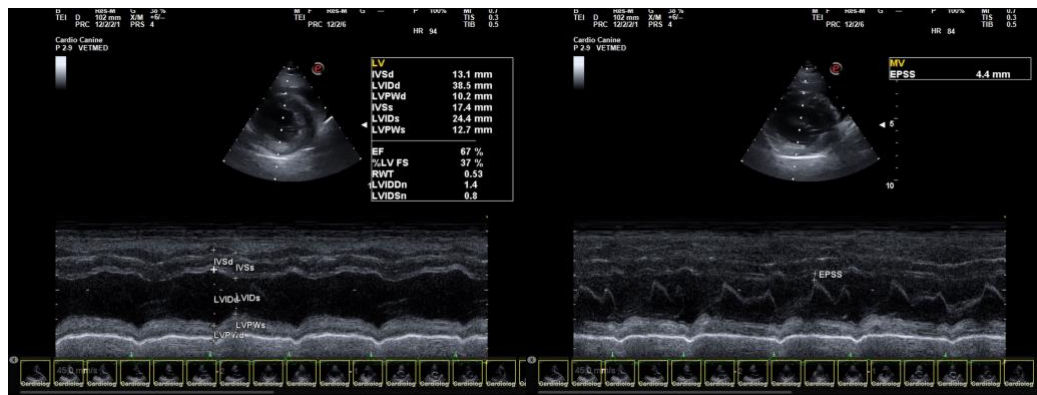
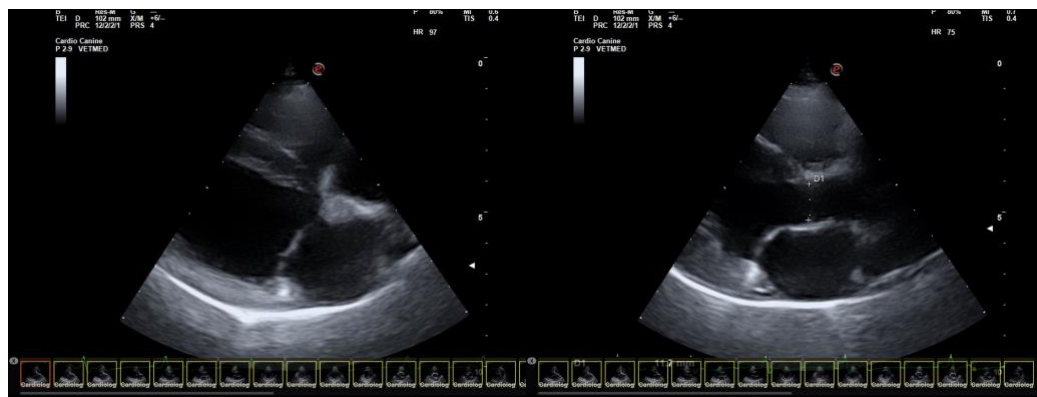
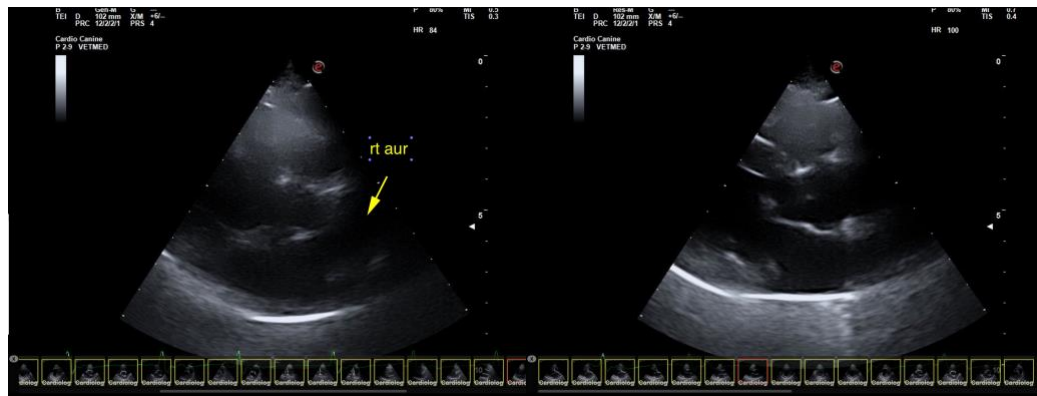
1/14/22

**ULTRASONOGRAPHIC FINDINGS**

- Normal echocardiogram

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No evidence of cardiac disease to warrant medications. The diuretic may be helping primary respiratory disease. There is cardiac necessity for ace-inhibitory in this patient. The respiratory signs are non-cardiogenic.





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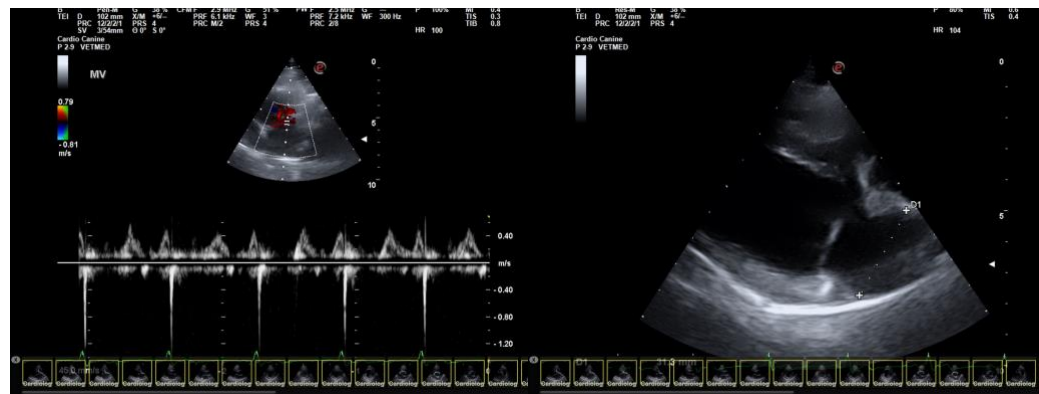
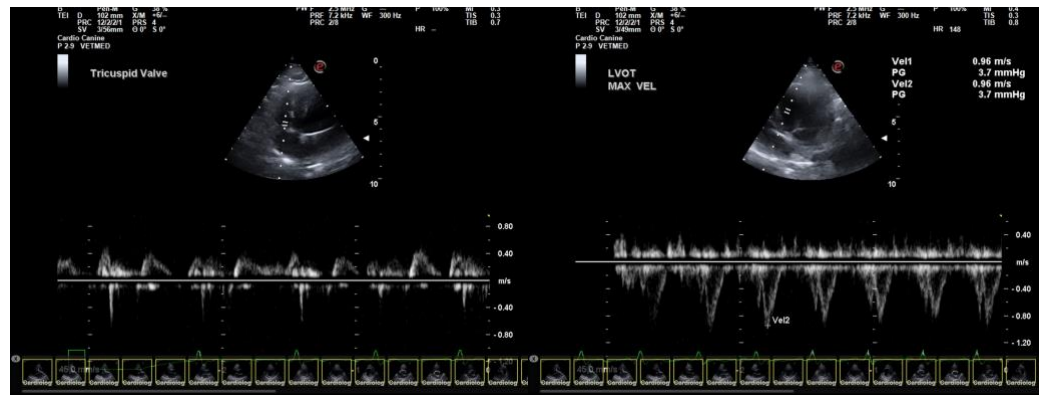
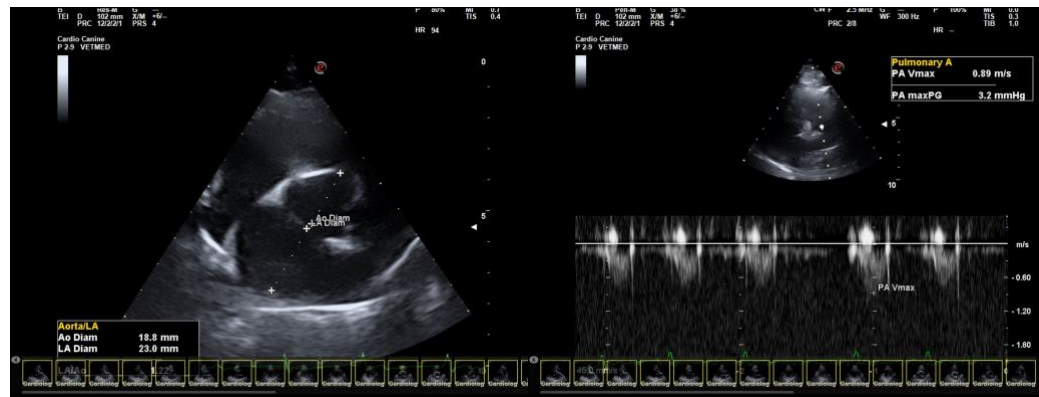
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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