

**PATIENT**

Shiloh Yoo

**SPECIES**

Canine

**BREED**

Maltese

**SEX**

Female

**AGE**

8 Years

**WEIGHT**

9.20 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Paul Kim

**HOSPITAL NAME**

Ridgefield Park AH

**REFERRING VET**

Dr. Paul Kim

**INVOICE**

14092

**DATE**

10/29/21

**PRESENTING CLINICAL SIGNS**

History: Patient was diagnosed in April 2021, with a left side heart murmur grade 4/6 and a right side murmur grade 2/6. During the exam the doctor also noted a harsh lung sound. After the exam in April, the doctor prescribed Doxycycline 100mg/ml, Cough tablets and an herbal medication Heart Qi Tonic powder. On October 29th, 2021 the patient came in for an echocardiogram.

Abnormal PE/Chem/CBC/UA Results:

**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	--	--	1.15	1.5	50%	--	0.1
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	--	--	--	--	2.6	2.5	--

**Cardiac Presentation**

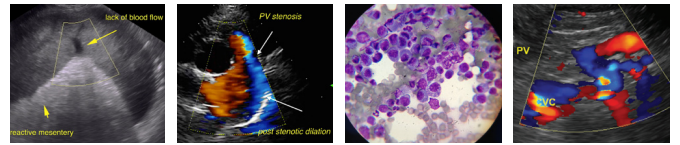
The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The **mitral** valve was mildly thickened yet no appreciable insufficiency noted in the image set provided. The **left ventricle** presented thicknesses with linear contour and was 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. Periodic arrhythmia noted.

**ULTRASONOGRAPHIC FINDINGS**

- Vegetative mitral valve

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The source of the murmur is likely mitral insufficiency yet could not be confirmed on spectral or color flow doppler. No evidence of volume overload. No treatment recommended at this time. Assessment of



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BUN, creatinine, USG, chest radiographs and blood pressure as well as clinical exam ideal in 7-10 days. Basal respiratory rate should be <20/min.

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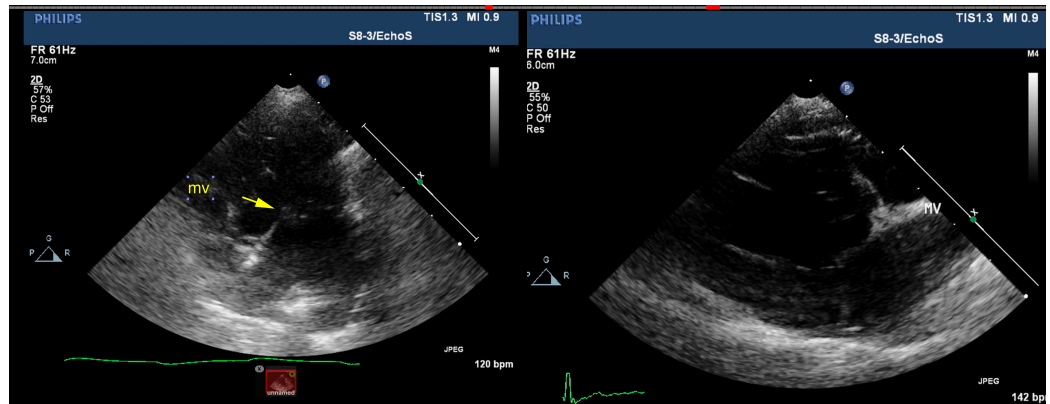
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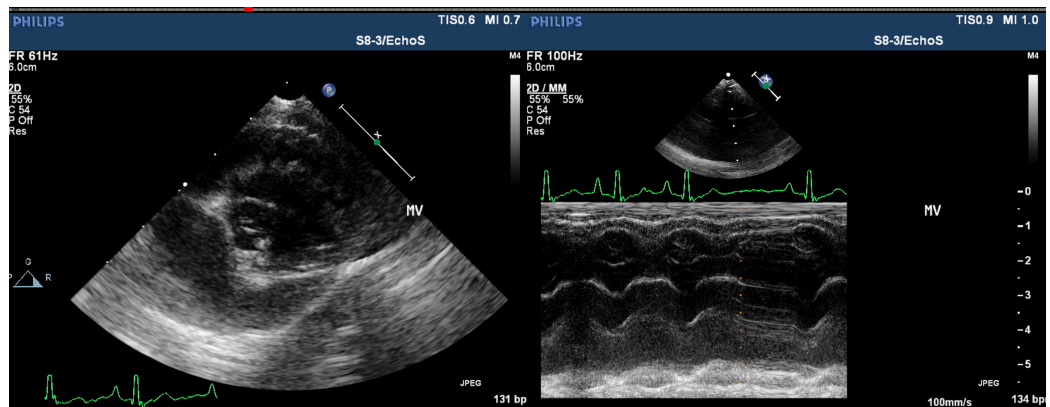


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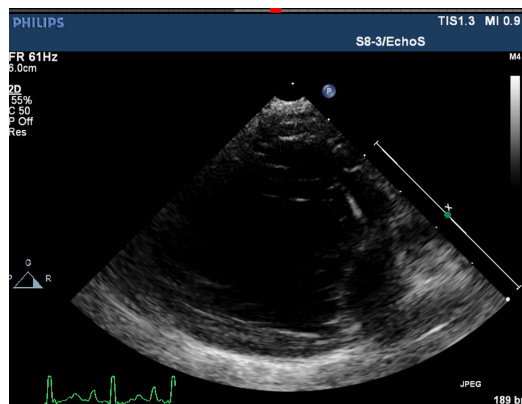
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

**DATE**

10/29/21

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
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