



**PATIENT PRESENTING CLINICAL SIGNS**

Pickles Macleod

History: Wellness exam 3/24/23 discovered cardiac murmur, obese.  
 Abnormal PE/Chem/CBC/UA Results: PE: Grade I/VI, systolic, right heart base. BCS 5/5. CBC: Reticulocytes 0 Chem: N Spec fPL: N Cardiopet proBNP: 158 pmol/L Total and Free T4: N

**SPECIES**

Feline

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

**BREED**

Domestic Shorthair

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. The **mitral** valve was mildly thickened and trivial insufficiency was noted. The **left ventricle** presented normal 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 and angles 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 or chamber overload. Minor **tricuspid** insufficiency was noted at 1.87 m/sec. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** 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 or extra cardiac pathology in the visible planes. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

**SEX**

Neutered male

**AGE**

9 years

**WEIGHT**

19 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Anderson

**HOSPITAL NAME**

Elizabeth AH

**REFERRING VET**

Dr. Anderson

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT		NM	0.6	1.3	0.58	56	90
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	1.23	1.5	1.5		1.52	NM	
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

**INVOICE**

43707

**DATE**

4/4/23



**PATIENT**

Pickles Macleod

**ULTRASONOGRAPHIC FINDINGS**

Minor mitral and tricuspid insufficiency.

Otherwise, structurally unremarkable heart.

**SPECIES**

Feline

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There was no evidence of volume overload or dysfunction. There is no contraindication to anesthetic procedure if necessary.

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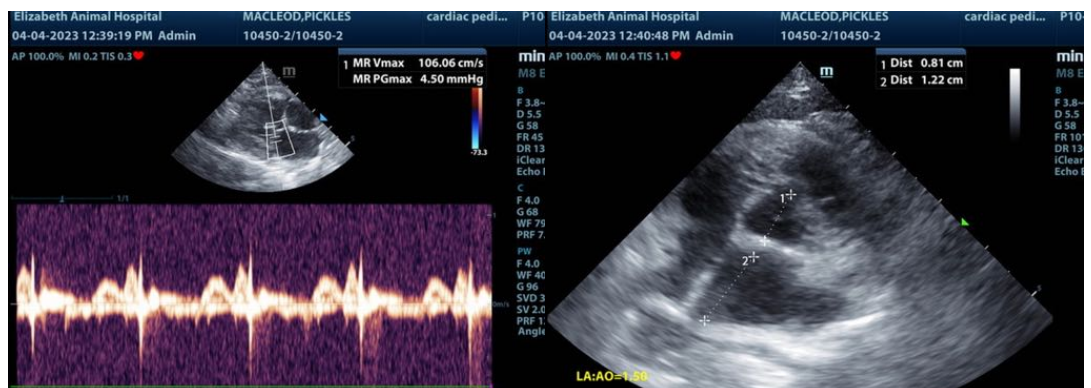
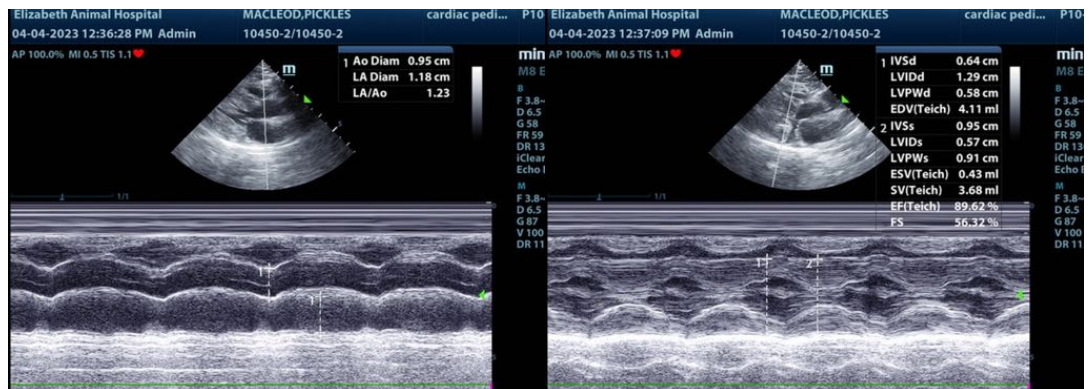
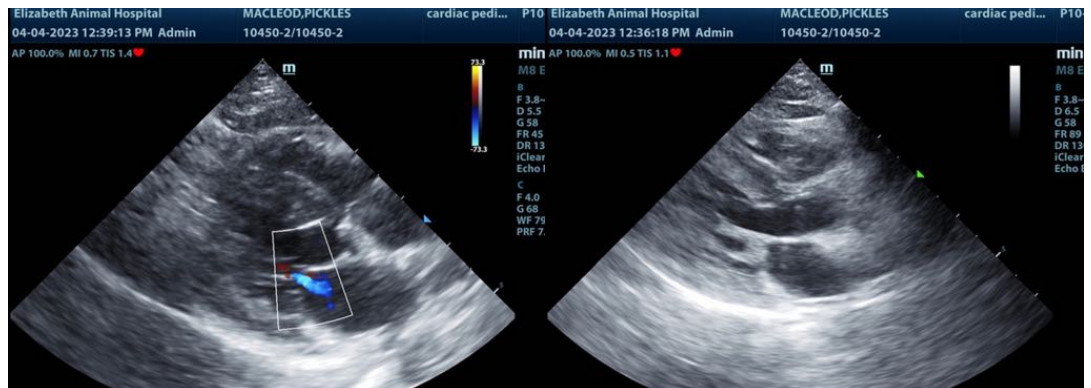
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**PATIENT**

Pickles Macleod

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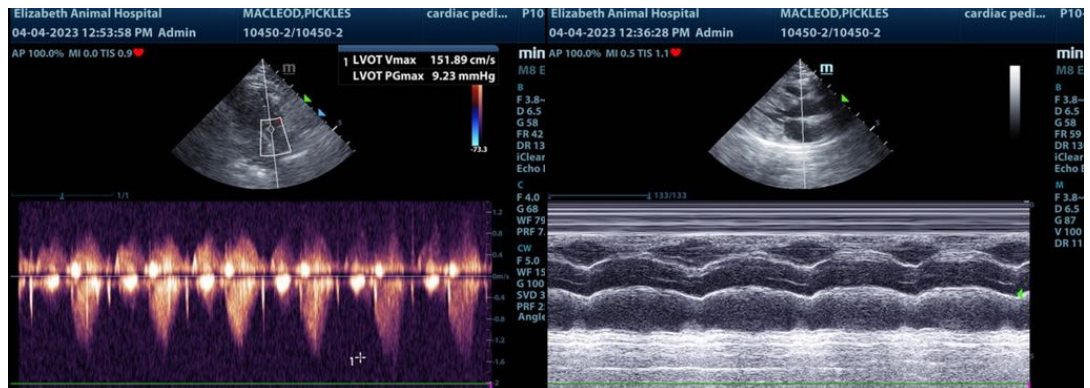
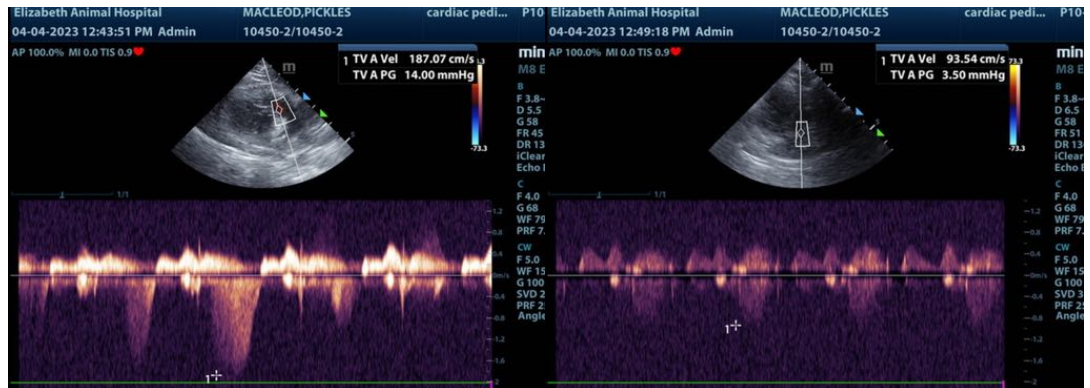
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com  
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