



**PATIENT**

3079 PAL

**PRESENTING CLINICAL SIGNS**

History: 4/6 murmur, louder on the left side

**SPECIES**

Feline

**BREED**

Domestic Shorthair

**SEX**

Intact female

**AGE**

12 weeks

**WEIGHT**

2.6 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Diane McFadden, RVT

**HOSPITAL NAME**

Blairstown AH

**REFERRING VET**

Dr. Summers

**INVOICE**

32905

**DATE**

9/14/22

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. Minor **mitral** valve 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. Excessive **left ventricular outflow** tract velocity was noted in this patient. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** insufficiency was noted and measured 2.2 m/sec. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. Increased right ventricular outflow velocity was present. 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. Tachycardia was noted.

FELINE CARDIAC PARAMETERS	BODY WEIGHT	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	2.6 lbs	280	0.34	0.97	0.34	53	88
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	1.3	1.0		3.0	2.5	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							

**ULTRASONOGRAPHIC FINDINGS**

Increased RVOT and LVOT velocities causing ejection murmurs.

Mitral insufficiency present and compensated.

No evidence of clinical cardiac disease at this time; however, this may change as the patient grows.



**PATIENT INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**3079 PAL** No obvious ventricular septal defects were noted; however, a significant respiratory artifact was present and tachycardia. There is no evidence of clinical cardiac disease at this time; however, this may change at the patient grows. Ideally further definition would be performed under sedation in this patient given the patient excitement.

**SPECIES**

Feline

I cannot completely rule out other congenital lesions; however, no obvious functional disease is noted at this time. I recommend a recheck echocardiogram in 3-6 months possibly under sedation such as Butorphanol. No treatment is recommended.

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**WEIGHT**

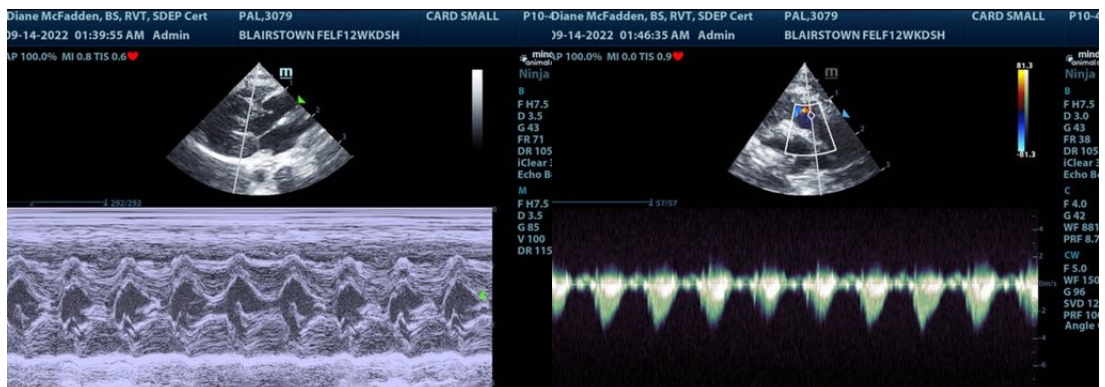
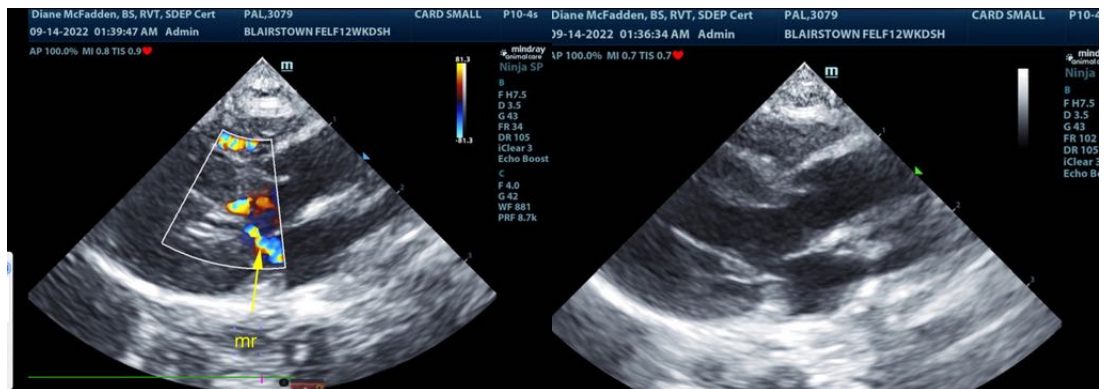
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

**INVOICE**

32905

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

**DATE**

9/14/22