



Kim Radway DVM, DABVP (Canine/ Feline)

**Date of Study:** 11/8/23

**Patient:** Faith

**Client:** Chatmas

**Breed:** Feline Maine Coon **Sex:** Intact female **Age:** 2 years **Weight:** 10 lbs

**Clinic:** Glenwood VC

**Doctor:** Dr. Hayter

**Echo indication:** This is for a routine pre breeding screening.

1. **Left ventricular dimensions:** (M-mode)

Diastole	IVSd	<u>5.2 mm</u>	[3-6]
	LVIDd	<u>15 mm</u>	[10.8-21.4]
	LVFWd	<u>6.9 mm</u>	[2.5-6]
Systole	IVSs	<u>7.8 mm</u>	[4-9]
	LVIDs	<u>6.8 mm</u>	[4-11.2]
	LVFWs	<u>9.1 mm</u>	[4.3-9.8]
	FS%	<u>55.06 %</u>	[30-46]

2. **Left atrial dimensions:** (2D)

LA	<u>11.9 mm</u>	[7-17]
AO	<u>9.9 mm</u>	[6-12.1]
LA:Ao ratio	<u>1.21</u>	[<1.3]

3. **Mitral Valve:** EPSS 2 mm [ < 8 mm]

Mitral Valve Prolapse (canine) none X present    .

4. **Ratios**

IVSd:LVIDd ratio 0.34 (.22 - .34) (< .22 suggests inadequate wall thickness)

LVIDd:LVPWd ratio 2.17 (3 - 5 ) < 3 suggests LVH, > 5 suggests LV dilation)

LV:RV ratio 2.0 ( > 2 ) (< 2 suggests RV dilation)

LVW:RVW ratio 1.5 ( > 1.5 ) (< 1.5 suggests RVH)

### 5. Color Doppler Insufficiencies

Mitral Valve: None.

Tricuspid Valve: None.

Aortic Valve: None.

Pulmonic Valve: None.

### 6. Doppler flows

Aorta (systolic): Peak velocity 1.11 m/sec (N <2.5) PG 4.92 mm Hg

Pulmonary Artery (systolic): Peak velocity 0.91 m/sec (N <2.0) PG 3.37 mm Hg

Pulmonic Insufficiency: X NA End diastolic velocity m/sec PG mmHg

Tricuspid Insufficiency: X NA Peak velocity m/sec PG mmHg

Aortic Insufficiency: X NA Peak velocity m/sec PG mmHg

### Echocardiographic Assessment:

The **left atrium** was not enlarged in size and ratio to the Aorta. There was no evidence of thrombi or smoke present within the left atrial chamber. The **mitral valve** appeared normal with both the anterior and posterior valve leaflets showing no thickness or significant myxomatous changes and both had normal motion and coaptation. The **left ventricle** had normal chamber size and wall thickness. The left ventricle demonstrated normal systolic function with a fractional shortening of 55.06 %. The left ventricular outflow tract showed no evidence of stenosis or obstruction and had laminar flow. The **right atrium** and auricle were of normal size and contained no mass or growth. The size of the pulmonic outflow tract was normal and approximately equal to the Aorta. No dilation or stenosis was evident. The **right ventricular** chamber and wall thickness were of normal size, with it being 1/3 of the size of the left ventricular chamber. The **pulmonic flow velocity** and the **Aortic flow velocity**

were normal. Color flow doppler showed no evidence of regurgitation at the Aortic or Pulmonic valves. There was no **mitral regurgitation** or clinically significant **tricuspid regurgitation** present on color flow doppler. The myocardium appeared normal without evidence of fibrosis, infiltrative disease or ischemia. There was no pericardial effusion present.

This patient did not have evidence of an enlarged left atrium or hypertrophic cardiomyopathy. There was no evidence of primary cardiac disease and therefore it is felt that this patient can continue with breeding.