



**Section of Cardiology**  
**University of Missouri-Columbia;**  
**Veterinary Medical Teaching Hospital**  
**379 E. Campus Dr., Columbia, MO 65211**  
**573-882-7821**

<b>Patient Information</b> Patient Name : Hansen, Flash Fire Patient Id : 380265 Date of Birth : 06/24/2007 Breed: Maine Coon Cat F/I Sex : Female Weight : 4.4 kg BP:  Date of study : 04/21/2008	<b>M-Mode Reference Ranges (cm)</b>
	IVSd (<0.6)
	LVIDd (1.3-1.7)
	LVPWd (<0.6)
	LVIDs (0.5-0.9)
	Aorta (0.8-1.1)
	Left Atrium (1.0-1.4)
	Ao/LA (<1.5)

<b>2D Measurements</b>	<b>M-Mode</b>	<b>Doppler</b>
Time	299.4 ms	LVOT Vmax 0.92 m/s
HR	200.4 BPM	LVOT maxPG 3.41 mmHg
CO(Teich)	0.97 l/min	MV E Vel 0.79 m/s
IVSd	0.39 cm	MV DecT 73.5 ms
LVIDd	1.52 cm	MV Dec Slope 11.0 m/s2
LVPWd	0.44 cm	MV A Vel 0.59 m/s
IVSs	0.64 cm	MV E/A Ratio 1.36
LVIDs	0.87 cm	RVOT Vmax 0.86 m/s
LVPWs	0.71 cm	RVOT maxPG 2.93 mmHg
%FS	42.5 %	
Ao Diam	0.96 cm	
LA Diam	1.12 cm	
LA/Ao	1.17	
EPSS	0.07 cm	

### **Echo Summary**

**EXAM QUALITY:** Image quality is good. A complete study was performed including left and right sided evaluation.

**ECHO FINDINGS:** generally normal appearing heart with proportional chambers and wall thicknesses. There are two small accessory papillary muscles noted. The main papillary muscles are mildly enlarged and hyperechoic. Left ventricular systolic function was normal. All M-mode measurements were within the reference range.

**DOPPLER FINDINGS:** no abnormal blood flow at any valve.

**ASSESSMENT:** although all cardiac measurements are normal, the finding of the mild papillary muscle enlargement may be the first sign of HCM. Alternatively, this may be a normal variation in this cat.

**RECOMMENDATIONS/TREATMENT:** no cardiac therapy is indicated at this time. The accessory papillary muscles are considered incidental and non-significant. The mild enlargement of the main papillary muscles may be a sign of early HCM, and therefore the cat should be re-echoed in one year prior to making any decisions regarding breeding.

**PROGNOSIS:** open

**FOLLOW-UP:** recheck in one year.

### **Echsonographer:**

Deborah M. Fine DVM, MS, DACVIM (Cardiology)

