



## PATIENT

Guinness Jones

## SPECIES

Feline

## BREED

Maine Coon

## SEX

Male Neutered

## AGE

6 years

## WEIGHT

17.1lbs

## INTERPRETED BY

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

## IMAGING PERFORMED BY

Kelly Romero

## HOSPITAL NAME

Mulnix Animal Clinic

## REFERRING VET

Dr. Thomas

## INVOICE

29817

## DATE

3/23/23

## PRESENTING CLINICAL SIGNS

History: Heart murmur. Asymptomatic. BP: 179mmHg.  
ECG diagnosis: Normal sinus rhythm with respiratory variation.

## ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is mildly remodeled with focal septal hypertrophy. The free wall measures borderline in dimension. There is a mildly hyperechoic endocardium consistent with fibrosis. The papillary muscles are mildly remodeled and hyperechoic. The left atrium is normal in size. The right atrium is normal in size. The right ventricle appears normal. The mitral valve is normal in structure and mobility. No MR. No TR. Blood flow through the RVOT and LVOT is normal in velocity. No pleural or pericardial effusion seen. No obvious cardiac tumors.

## CARDIAC CHART

| FELINE CARDIAC PARAMETERS | BODY WEIGHT (kg) | HR (BPM)                        | IVSd (cm) (Moise, Pipers)                | LVIDd (cm) (Moise, Pipers) | LWVd (cm) (Moise, Pipers) | FS (%)         | EF (%)      |
|---------------------------|------------------|---------------------------------|--|----------------------------|---------------------------|----------------|-------------|
| NORMAL PARAMETER          | -----            | 150-240                         | 0.35-0.55                                | <2 (mean 1.5)              | 3.5-0.55                  | 35-67          | 80-100      |
| PATIENT                   | 7.8              | NM                              | 0.61                                     | 1.8                        | 0.55                      | 60             | 91          |
| FELINE CARDIAC PARAMETERS | LA/AO (Boon)     | LA/AO HEART BASE (Swe) (Abbott) | LA 2D short axis Base view (cm) (Abbott) |                            | LVOT VEL (m/s)            | RVOT VEL (m/s) | E max (m/s) |
| NORMAL                    | <1.5             | <1.3                            | <1.2                                     |                            | <1.6                      | <1.3           | <0.9        |
| PATIENT                   | 1.1              | 1.3                             | 1.3                                      |                            | 1.1                       | 1.0            | NM          |

*\*Note: All measurements based upon multi-modal images and methods. An average value is reported.*  
Adapted from June Boon, Veterinary Echocardiography, 1998  
Abbott J & MacLean H JVIM 2006;20: 111-119, Moise et al. Am J Vet Res 47:1476, 1986. Pipers et al. Am J Vet Res 40:882, 1979.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The only abnormality identified is mild LV hypertrophy, specifically of the interventricular septum. In this predisposed breed, this may be consistent with early hypertrophic disease; however, monitoring is recommended. The remainder of the LV measures borderline in dimension. Regardless, the LA remains normal which would indicate clinical stability. Serial echocardiography will be necessary to determine progression and clinical significance. Additionally, no definitive cause is identified for the murmur in this study, making it likely benign and secondary to tachycardia/stress. Monitor BP/T4 every 6-12 months.

With a normal LA dimension, no medications are indicated. Prognosis is open pending assessing for progression.

Given these findings, anesthetic risk is mild, however any cat with this degree of fibrosis and diastolic dysfunction will be at risk for iatrogenic IV fluid overload should they be needed in the future.



**PATIENT**

Guinness Jones

Monitor for any development of clinical signs, including labored breathing or signs of a blood clot (paralysis, neurologic change).

**SPECIES**

Feline

A recheck echocardiogram is recommended in 6-12 months to screen for any evidence of progression.

**BREED**

Maine Coon

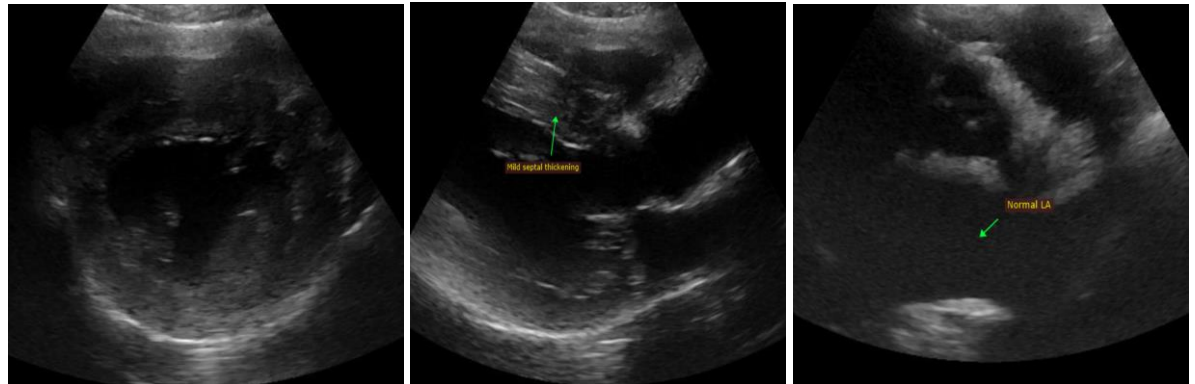
**SEX**

Male Neutered

**AGE**

6 years

**IMAGES**



**WEIGHT**

17.1lbs

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.

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

Thank you for this referral. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

**Maggie Machen Lamy, DVM**  
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