



PATIENT

Omari Newton

SPECIES

Feline

BREED

Bengal

SEX

NM

AGE

13 years

WEIGHT

18 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

Dr. Jill Rigg

INVOICE

14460

DATE

7/28/22

PRESENTING CLINICAL SIGNS

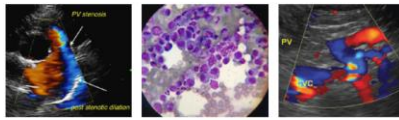
Checked in for anesthetic dental, heart murmur noted upon exam
Abnormal PE/Chem/CBC/UA Results: Bloodwork WNL, 3/6 systolic sternal murmur

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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		193	0.61	1.5	0.60	66.7	98
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		1.22	1.4		1.15	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							

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size and structure with no evidence of "smoke" or thrombi. The cranial and caudal **mitral** valve leaflets exhibited potential for mild thickened with possible mild MR noted on Doppler. The **left ventricle** presented subjective to borderline excessive free wall and septal thicknesses compared to normal for this species. The **myocardium** presented essentially normal echogenicity without immediate signs of fibrotic or ischemic disease. **Contractility** of the ventricular walls was considered excessive for this patient evidenced by the elevated fractional shortening measurement. Subjective decreased systolic LV volume was noted on transverse LV views. The **left ventricular outflow** tract demonstrated turbulent to dynamic systolic flow. Subjective assessment of the **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated linear morphology. The **right ventricle** was of normal size with normal chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter. No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The **mediastinum** was free of masses in the visible window.



PATIENT

Omari Newton

SPECIES

Feline

BREED

Bengal

SEX

NM

AGE

13 years

WEIGHT

18 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

Dr. Jill Rigg

INVOICE

14460

DATE

7/28/22

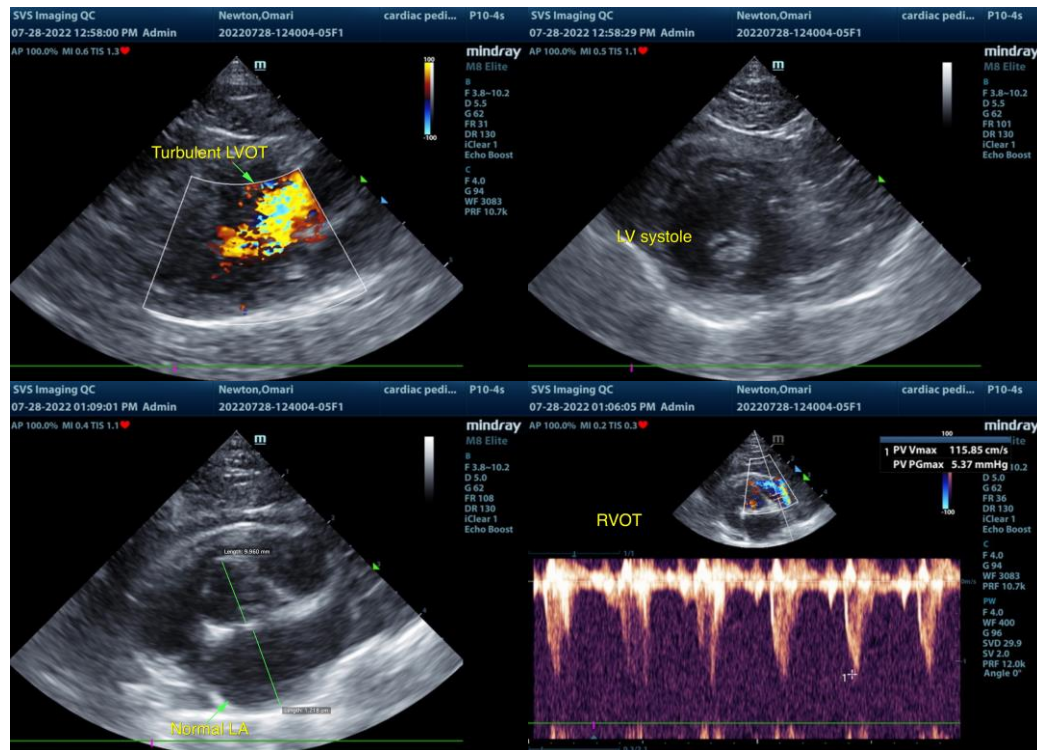
ULTRASONOGRAPHIC FINDINGS

- Borderline thickened left ventricle
- Normal left atrium
- Turbulent to dynamic LVOT outflow, suspect mild MR

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cardiac presentation is most suggestive of borderline HCM with the possibility of HOCM. HCM is a rule-out diagnosis assuming the patient is normotensive and euthyroid. Assessment of systemic BP and T4 levels to rule out concurrent factors is suggested. The normal left atrium size indicates that the relative risk secondary to potential HCM is low.

No Indication for cardiac medications at this stage. Continued conservative monitoring of the heart murmur and for evidence of cardiogenic clinical signs is recommended. Assuming no evidence of hypertension, no overt anesthetic contraindications are evident based on this study. Serial sonographic monitoring is required for further prognosis. Recheck echocardiogram is recommended in 6 months, sooner if clinical signs arise.





PATIENT

Omari Newton

SPECIES

Feline

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.

BREED

Bengal

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.

SEX

NM

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

AGE

13 years

WEIGHT

18 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

**IMAGING
PERFORMED BY**

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

Dr. Jill Rigg

INVOICE

14460

DATE

7/28/22