



**PATIENT PRESENTING CLINICAL SIGNS**

Moses Sullivan

History: Grade 4/6 left systolic heart murmur, no other clinical signs.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Feline

**BREED**

Bengal

**SEX**

Neutered male

**AGE**

15 years

**WEIGHT**

15.08 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Mandeville

**HOSPITAL NAME**

Bettervet

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 appeared mildly thickened with some insufficiency noted on Doppler. The **left ventricle** presented excessive free wall and septal thicknesses with hypertrophic 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. The **left ventricular outflow** tract demonstrated turbulent laminar 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.

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			1.15	1.06	52	87	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LA (2D short axis Base view) (cm)	LVIDd (Avg; 2D and m-mode short axis) (cm)	LVIDs (Avg; 2D and m-mode short axis) (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
PATIENT			0.7	15.08	1.3	1.83	

**REFERRING VET ULTRASONOGRAPHIC FINDINGS**

Dr. Mandeville

No overt dynamic obstruction was noted.

**INVOICE**

32323

Mild left ventricular hypertrophy or concentric hypertrophy owing to volume contraction. Systemic hypertension, hyperthyroidism, not clinically significant.

**DATE**

8/11/22

HCM phenotype, compensated at this time.



**PATIENT**

Moses Sullivan

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No therapy is warranted. Blood pressure measurements and thyroid assessment should be assessed periodically. Recheck echocardiogram is recommended in 6 months. Recheck is recommended in a year or earlier if clinical signs initiate or other clinical indications would indicate a necessity to reassess the heart, yet subjectively benign with normal function.

**SPECIES**

Feline

**BREED**

Bengal

**SEX**

Neutered male

**AGE**

15 years

**WEIGHT**

15.08 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUS

**IMAGING PERFORMED BY**

Dr. Mandeville

**HOSPITAL NAME**

Bettervet

**REFERRING VET**

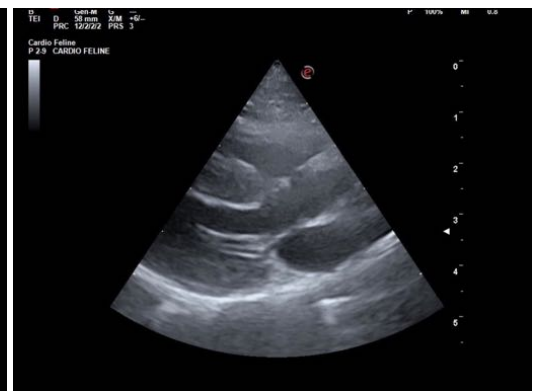
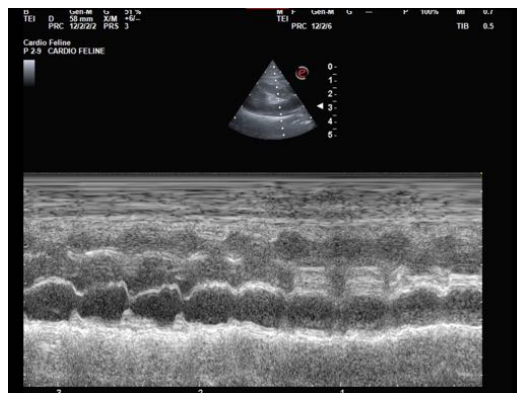
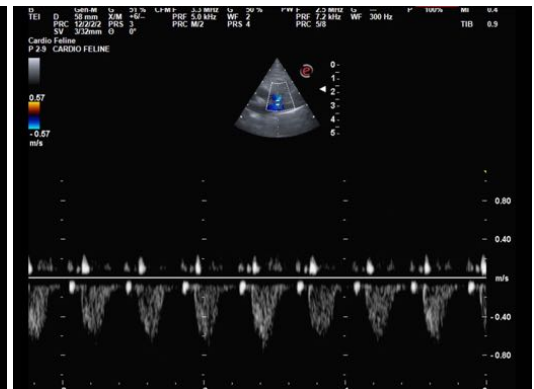
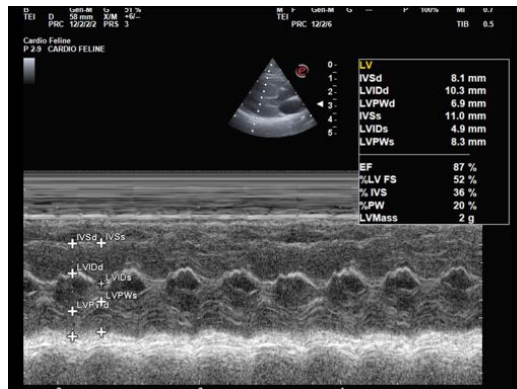
Dr. Mandeville

**INVOICE**

32323

**DATE**

8/11/22





**PATIENT**

Moses Sullivan

**SPECIES**

Feline

**BREED**

Bengal

**SEX**

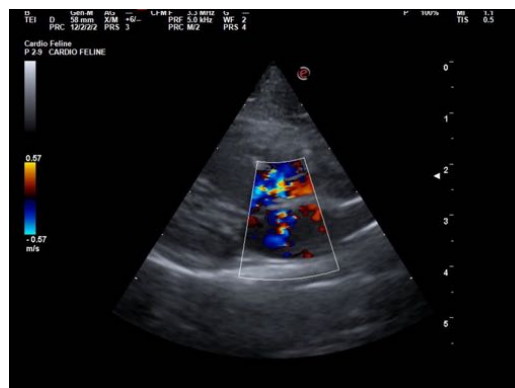
Neutered male

**AGE**

15 years

**WEIGHT**

15.08 lbs



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.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

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

**IMAGING PERFORMED BY**

Dr. Mandeville

**HOSPITAL NAME**

Bettervet

**REFERRING VET**

Dr. Mandeville

**INVOICE**

32323

**DATE**

8/11/22