



PATIENT

GRACE NURIEL

SPECIES

Feline

BREED

Tortoiseshell

SEX

FS

AGE

21

WEIGHT

6.7

PRESENTING CLINICAL SIGNS

TORTOISESHELL

History: LETHARGY ANOREXIA HISTORY OF PANCREATITIS

Abnormal PE/Chem/CBC/UA Results: BW-ELEVATED CR, BUN HEART MURMUR GRADE 3/6

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	--	NM	0.58	1.13	0.41	40	74
FELINE CARDIAC PARAMETERS	LA/AO M-Mode	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
NORMAL PARAMETER	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
PATIENT	--	1.26	1.3		--	1.0	NM
Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr Sharkaway

HOSPITAL NAME

Kew Gardens Animal Hospital

REFERRING VET

Dr Ray

INVOICE

22856

DATE

11/3/2025

Cardiac Presentation

The echocardiogram in this patient demonstrated normal left atrial size and structure. Chamber volume and blood echogenicity were normal, no spontaneous LA contrast. The cranial and caudal mitral valve leaflets presented minor irregular age-related changes that are not clinically significant at this time with adequate extension in systole and union in diastole. No documented significant MR on Doppler. The left ventricle presented mild increased IVS dimension noted in the distal upper septum measuring 0.76 cm in diameter. Mildly remodeled papillary muscles. The myocardium presented some echogenic remodeling consistent with expected age-related change. Contractility of the ventricular walls was adequate and in normal range for this breed and patient size. The left ventricular outflow tract demonstrated normal laminar flow with subjectively unremarkable structure. Subjective assessment of the right atrium and auricle revealed normal size, structure and content. No evidence of masses was noted. Tricuspid valvular assessment demonstrated expected findings for this age patient. The right ventricle was of normal size (1/3 diameter of LV), echogenicity and thickness. Pulmonic tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No dilation due to heartworm disease, cor pulmonale, stenosis, or pulmonic hypertension was noted. No visible pericardial or free pleural fluid was noted. The mediastinum was free of masses in the visible window.

ULTRASONOGRAPHIC FINDINGS

Primary

- Normal LA



PATIENT

- LV myocardial remodeling with mild asymmetrical IVS to distal upper septal thickening

GRACE NURIEL

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

The LV presentation may indicate age-related myocardial remodeling, fibrosis or atypical HCM phenotype which may be a rule out diagnosis once the patient is deemed euthyroid and normotensive. Assessment of systemic BP given concurrent chronic renal disease as well as a T4 level is recommended.

Feline

BREED

Tortoiseshell

A definitive cause of the murmur was not obvious. An associated flow murmur or non-visualized flow abnormality/valvular insufficiency is possible regardless; the lack of LA enlargement indicates the current and future risk of complication is likely low.

SEX

No overt indication for cardiac medications. Conservative monitoring of the murmur going forward is advised. Recheck echo suggested in 6 months, sooner if clinical signs initiate.

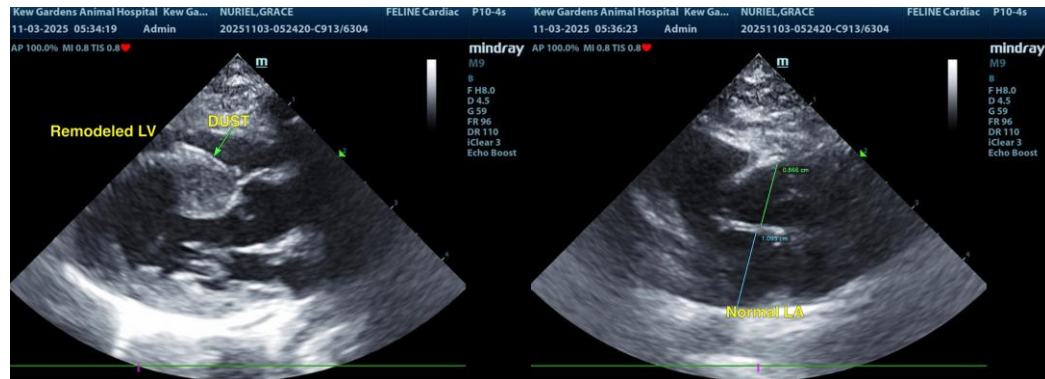
FS

AGE

21

WEIGHT

6.7



INTERPRETED BY

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

IMAGING PERFORMED BY

Dr Sharkaway

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.

HOSPITAL NAME

Kew Gardens Animal
Hospital

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

REFERRING VET

Dr Ray

INVOICE

22856

DATE

11/3/2025