



**PATIENT**

Mimi Park

**SPECIES**

Feline

**BREED**

DLH

**SEX**

Female Spayed

**AGE**

14 y

**WEIGHT**

12.4 lbs

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Meghan Morse, LVT,  
 CVT

**HOSPITAL NAME**

Wyckoff VH

**REFERRING VET**

Dr. Scott

**INVOICE**

12983

**DATE**

12/26/25

**PRESENTING CLINICAL SIGNS**

History: New murmur grade 2, hx of urinary issues and food allergies

Current meds: gabapentin

**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	0.54	1.3	0.56	55	86
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	--	1.1	1.2		1.1	0.84	--
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. Chamber volume and blood echogenicity were normal, no spontaneous 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 overt MR noted on doppler. The **left ventricle** presented normal free wall and septal thicknesses with linear contour. 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. Normal measured LVOT velocity noted. 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). Normal measured RVOT velocity noted. No visible **pericardial** or free pleural fluid was noted. The **mediastinum** was free of masses in the visible window.

**ULTRASONOGRAPHIC FINDINGS**

- Normal cardiac structure/function with mild LV remodeling



**PATIENT**

Mimi Park

**SPECIES**

Feline

**BREED**

DLH

**SEX**

Female Spayed

**AGE**

14 y

**WEIGHT**

12.4 lbs

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Meghan Morse, LVT,  
 CVT

**HOSPITAL NAME**

Wyckoff VH

**REFERRING VET**

Dr. Scott

**INVOICE**

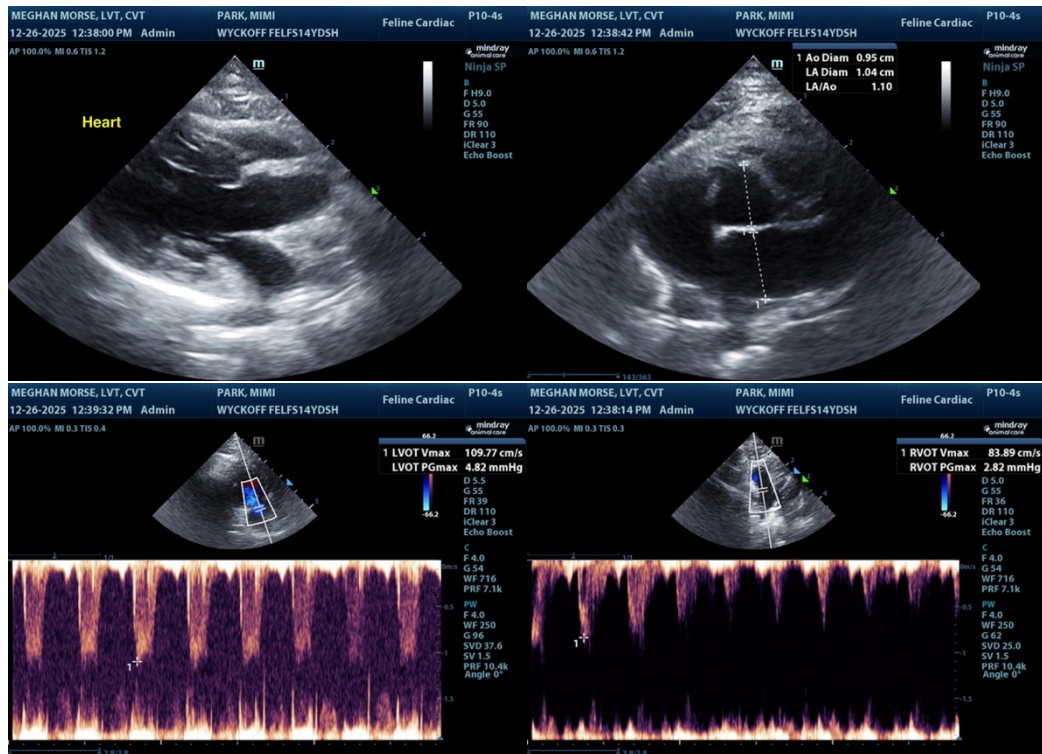
12983

**DATE**

12/26/25

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No evidence of clinical issues such as HCM criteria, left or right heart chamber enlargement, LV systolic dysfunction or overt significant valvular insufficiencies. Assuming no volume changes such as dehydration or anemia, a benign flow murmur is probable. Although, a small, non-visualized flow abnormality is not excluded. The hemodynamic effects of the mild murmur are low. No indication for cardiac medication. Conservative monitoring of the murmur going forward is advised. Recheck echo recommended in 6-12 months, sooner if increase in murmur intensity or if clinically indicated. No anesthetic contraindications. Suggested anesthetic protocol may include opioid or Benzodiazepine pre-med, induction with Propofol or Alfaxalone, and appropriate gas anesthesia with avoidance of alpha 2 agonists.



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

[info@sonopath.com](mailto:info@sonopath.com)



**PATIENT**

Mimi Park

**SPECIES**

Feline

**BREED**

DLH

**SEX**

Female Spayed

**AGE**

14 y

**WEIGHT**

12.4 lbs

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Meghan Morse, LVT,  
CVT

**HOSPITAL NAME**

Wyckoff VH

**REFERRING VET**

Dr. Scott

**INVOICE**

12983

**DATE**

12/26/25