



PATIENT

Ruby Colli

SPECIES

Feline

BREED

DSH

SEX

Female Spayed

AGE

2

WEIGHT

9

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Sharkaway

HOSPITAL NAME

Kew Gardens AH

REFERRING VET

Dr. Ray

INVOICE

13251

DATE

3/4/26

PRESENTING CLINICAL SIGNS

History:

- Mitral valve dysplasia

Abnormal PE/Chem/CBC/UA Results: Heart murmur grade 3/6

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

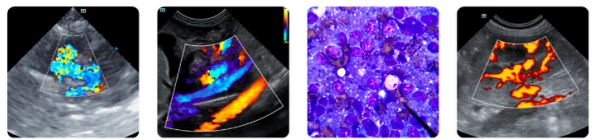
| FELINE CARDIAC PARAMETERS | BODY WEIGHT (kg) | HR (BPM) | IVSd (cm) | LVIDd (cm) | LVWd (cm) | FS (%) | EF (%) |
|--|------------------|---------------------------|----------------------|------------|-----------------|-----------------|-----------|
| NORMAL PARAMETER | ----- | 150-240 | 0.3-0.6 | 1.0-2.1 | 0.25-0.6 | 35-67 | 80-100 |
| PATIENT | -- | NM | 0.45 | 1.65 | 0.42 | 46 | 80 |
| 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 | -- | 1.4 | 1.3 | | NM | 1.1 | -- |
| 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. The cranial and caudal **mitral** valve leaflets presented mild irregular changes with adequate extension in systole and union in diastole. No definitive MR noted on color doppler in the study. The **left ventricle** presented normal free wall and septal thicknesses with a-linear contour. The **myocardium** presented mild irregular echogenic myocardial changes suggestive of fibrosis and ventricular remodeling. **Contractility** of the ventricular walls was adequate and in normal range for this breed and patient size. 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 visible **pericardial** or free pleural fluid was noted. The **mediastinum** was free of masses in the visible window.

ULTRASONOGRAPHIC FINDINGS

- Remodeled LV with normal LV dimension/systolic function
- Normal LA
- Static mildly thickened mitral valve



PATIENT

- Normal RA/RV

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

Continued stable to compensate a cardiac presentation. A definitive cause of the murmur was not obvious in this study with considerations including, given previous echocardiogram, mitral valve insufficiency secondary to mild mitral valve dysplasia given patient age or potential mild non-obvious dynamic LV outflow obstruction/SAM. An additional flow abnormality not definitively visualized but is not excluded. Regardless, the hemodynamic effects of the murmur remain low given lack of left or right heart chamber enlargement. No indication for cardiac medication. Conservative monitoring of the murmur is recommended. Recheck echo suggested in 6 months, sooner if clinically indicated. Current cardiac anesthetic risk is considered mild. If required, the following protocol is recommended. 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.

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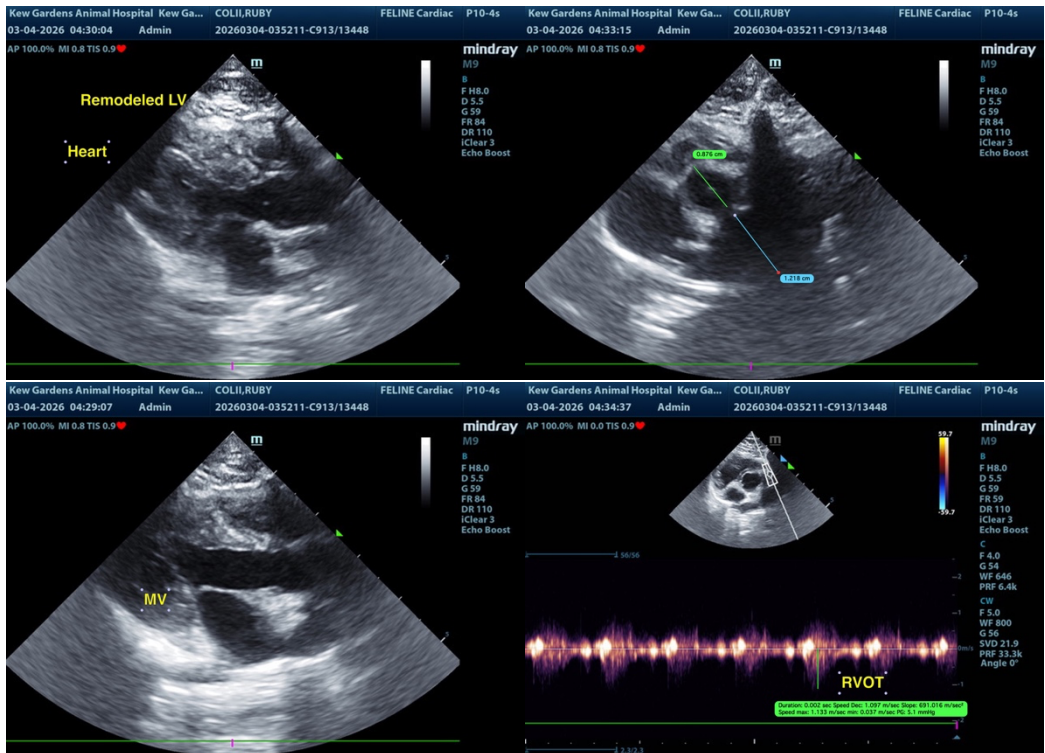
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

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