


**PRESENTING CLINICAL SIGNS**

History: Pre-anesthetic ECG showed VPCs. Sedated for exam with butorphanol.

**DATE**

2/7/23

**ECHOCARDIOGRAPHIC FINDINGS**

2D, M-mode, and Doppler study.

**PERFORMED BY:**

Shari Reffi, CVT

**INTERPRETED BY**

 Keith Blass, DVM,  
 MS, DACVIM  
 (Cardiology)

**PATIENT**

Musette Cherry

There is moderate left atrial dilation. The mitral valve is normal. Left ventricular wall thickness is normal. Left ventricular internal dimensions are normal. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve are normal. Right atrial and right ventricular dimensions are normal. The tricuspid valve appears normal, though trace tricuspid regurgitation is present. The pulmonary artery and pulmonic valve are normal. No shunting lesions are visualized. No heartworms are visualized. No pericardial effusion or cardiac masses are seen.

 LA/Ao - 1.36  
 IVSd - 3.9 mm  
 LVPWd - 3.9 mm  
 LVIDd - 12.9 mm  
 LVIDs - 5.4 mm  
 FS - 58%  
 LVOT - 0.91 m/s  
 RVOT - 0.88 m/s

**ASSESSMENT/RECOMMENDATIONS**
**SPECIES**

Feline

**BREED**
**DSH**
**SEX**

FS

**AGE**

11 y

**WEIGHT**

8.6 lb

**HOSPITAL NAME**

Tranquility VC

**REFERRING VET**

Dr. Christensen

The only potential abnormality seen in this exam is trace regurgitation of blood across Musette's tricuspid valve. The hemodynamic effects of the regurgitation are negligible, and it is not the cause of Musette's VPCs. It's possible that Musette's VPCs could be due to the presence of cardiac conduction system disease, though consideration should also be given to non-cardiac causes, such as stress/anxiety, splenic/hepatic disease, drug/toxin exposure, hyperthyroidism, and infectious/inflammatory disease.

No therapy is recommended based on this exam.

Given the presence of VPCs, I recommend avoiding the use of alpha-2 agonists, ketamine, telazol, and, if possible, anticholinergics in the anesthetic protocol. Careful monitoring of Musette's heart rhythm is recommended, and lidocaine (1 mg/kg slow IV) should be available in case a significant ventricular arrhythmia develops.

A recheck echocardiogram is recommended if Musette develops a heart murmur, or if other new physical exam and/or clinical abnormalities suggestive of cardiac dysfunction develop.





**DATE** The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.  
2/7/23

**PERFORMED BY:** 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.

Shari Reffi, CVT

**INTERPRETED BY** Keith Blass, DVM, MS, DACVIM (Cardiology)  
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Keith Blass, DVM,  
MS, DACVIM  
(Cardiology)

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