



**PRESENTING CLINICAL SIGNS**

History: New murmur. Receiving grain-free diet.

**DATE**

12/22/22

**ECHOCARDIOGRAPHIC FINDINGS**

2D, M-mode, and Doppler study.

**PERFORMED BY:**

Jenna Walsh, CVT

**INTERPRETED BY**

Keith Blass, DVM,  
MS, DACVIM  
(Cardiology)

There is mild left atrial dilation. The mitral valve leaflets are mildly thickened, and there is Doppler evidence of mitral regurgitation present. There is mild left ventricular dilation. Left ventricular systolic function is normal. The aorta and aortic valve appear normal, though there is mildly increased flow velocity in the ascending aorta. 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 appear normal, though trace pulmonic insufficiency is present. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

LA – 35.3 mm  
LVIDd – 36.8 mm  
LVIDs – 24.9 mm  
FS – 32.3%  
LVOT – 1.49 m/s  
RVOT – 0.88 m/s

**PATIENT**

Ora Renken

**ELECTROCARDIOGRAPHIC FINDINGS**

A single lead ECG is submitted for review.

**SPECIES**

Canine

HR: 108 bpm  
Rhythm: Sinus with a VPC

The underlying rhythm is sinus in origin. All sinus complex amplitudes and intervals are within normal limits. A single VPC is present. No atrial ectopy or conduction blocks are seen.

**BREED**

Whippet

**ASSESSMENT/RECOMMENDATIONS**

Degenerative mitral valve disease  
Ventricular premature complex (VPC)

**SEX**

FS

This examination demonstrates regurgitation of blood across Ora's mitral valve resulting from degenerative valve disease. Secondary to her regurgitation, Ora has mild dilation of both her left atrium and left ventricle, though her left ventricular systolic function is normal. As only mild left heart chamber dilation is present, Ora's current risk for the development of clinical signs secondary to her mitral valve disease, such as coughing, exercise intolerance, syncope, and labored breathing, appears to be relatively low, though careful monitoring for these signs is recommended going forward.

**AGE**

8 y

**WEIGHT**

30 lb

Ora's ECG demonstrates the presence of a single VPC. While no over evidence of a diet-associated cardiomyopathy is appreciated in Ora's echocardiogram, it's possible that early microscopic myocardial dysfunction secondary to her grain-free diet could be the cause of the VPC, and a switch to a more traditional diet is recommended.

**HOSPITAL NAME**

Eugene AH

I recommend starting Ora on pimobendan (5 mg am, 2.5 mg pm), as this medication should help to slow the progression of her mitral valve disease.

A recheck echocardiogram and ECG are recommended in ~6 months.

**REFERRING VET**

Dr. Wiktorowski



DATE

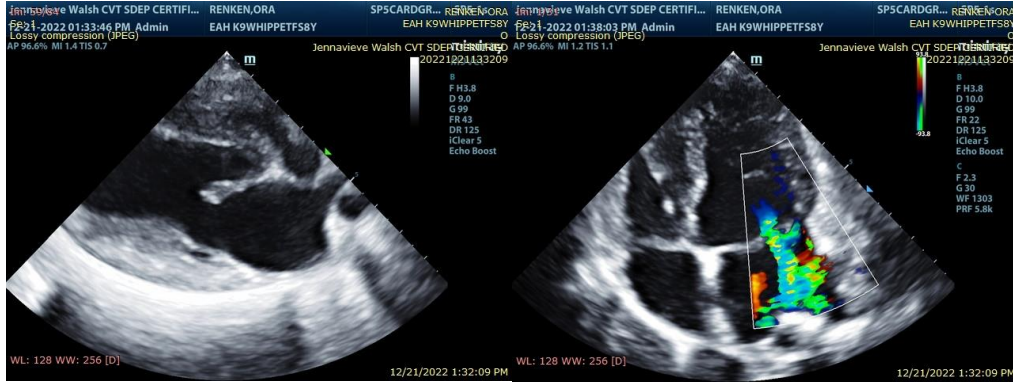
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

PATIENT

Ora Renken

Keith Blass, DVM, MS, DACVIM (Cardiology)  
KeithBlass@gmail.com  
631-804-5754

SPECIES

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BREED

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