


**PRESENTING CLINICAL SIGNS**

**DATE** History: Grade 2/6 murmur. Pre-anesthetic evaluation (dental). Receiving furosemide 6.25 mg BID.

5/16/22 **ECHOCARDIOGRAPHIC FINDINGS**

2D, M-mode, and Doppler study.

**PERFORMED BY:**

Loetitia Saint-Jacques, RVT, LVT

**INTERPRETED BY**

Keith Blass, DVM, MS, DACVIM (Cardiology)

There is borderline mild left atrial dilation. The mitral valve leaflets are thickened and exhibit mild systolic prolapse. There is Doppler evidence of mitral regurgitation present. Left ventricular dimensions are normal, as is left ventricular systolic function. The aorta and aortic valve appear normal, though trace aortic insufficiency is present. Right atrial and right ventricular dimensions are normal. The tricuspid valve leaflets are thickened, and there is Doppler evidence of tricuspid regurgitation present. TR velocity does not suggest the presence of pulmonary hypertension. The pulmonary artery and pulmonic valve are normal. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

**PATIENT**

Paco Fritchen

LA - 24.4 mm  
 LVIDd - 22.3 mm  
 LVIDs - 14.4 mm  
 FS - 35.4%  
 RA - 20.0 mm  
 LVOT - 1.81 m/s  
 RVOT - 0.90 m/s  
 TR - 2.64 m/s

**SPECIES**

Canine

**ELECTROCARDIOGRAPHIC FINDINGS**

A six lead ECG is submitted for review.

HR: 125 bpm  
 Rhythm: Sinus

**BREED**

Chihuahua

Sinus arrhythmia is present throughout this recording. The MEA is normal. All complex amplitudes and intervals are within normal limits. No premature beats or conduction blocks are seen.

**RADIOGRAPHIC FINDINGS**

**SEX**

Three-view thoracic radiographs are submitted for review.

**MN**

The cardiac silhouette is normal in size, with no specific chamber enlargement present. There is mild widening of the cranial mediastinum in the VD image. The pulmonary vessels are within normal limits. The pulmonary parenchyma and pleural space are unremarkable. The trachea is normal. The remainder of the thorax is unremarkable.

**AGE**

12 y

**ASSESSMENT/RECOMMENDATIONS**

Degenerative mitral and tricuspid valve disease

**WEIGHT**

9 lb

Paco's echocardiogram demonstrates regurgitation of blood across his mitral and tricuspid valves resulting from degenerative valve disease. The hemodynamic effects of each of the regurgitations appear to be mild, as Paco does not have secondary dilation of any of his cardiac chambers, and his ventricular systolic function is normal. As such, Paco's valvular diseases appear to be well-compensated, and his current risk for the development of clinical signs secondary to them, such as coughing, exercise intolerance, syncope, labored breathing, and abdominal distension, appears to be low.

**HOSPITAL NAME**

Valley VC

**REFERRING VET**

Dr. Lopez

Paco's ECG and thoracic radiographs are unremarkable, save for mild widening of his cranial mediastinum in his VD radiograph.



**DATE** Paco's cardiovascular risk for general anesthesia is only mildly increased based on this exam, though I still recommend avoiding the use of alpha-2 agonists in the anesthetic protocol and reducing the IV fluid rate by 25% as precautions.  
5/16/22

No therapy appears to be warranted at this stage of Paco's valvular diseases.

**PERFORMED BY:** A recheck echocardiogram is recommended in ~6 months to monitor for disease progression.

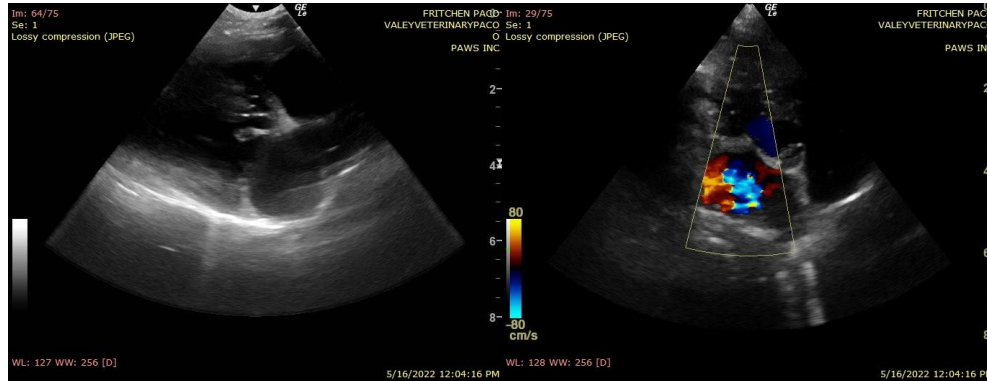
Loetitia Saint-Jacques, RVT, LVT

**INTERPRETED BY**

Keith Blass, DVM, MS, DACVIM (Cardiology)

**PATIENT**

Paco Fritchen



**SPECIES** 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.  
Canine

**BREED** 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.

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

**SEX**

**MN**

**AGE**

12 y

**WEIGHT**

9 lb

**HOSPITAL NAME**

Valley VC

**REFERRING VET**

Dr. Lopez