


RESENTING CLINICAL SIGNS

DATE History: Heart murmur. Asymptomatic. Pre-anesthetic evaluation (dental).

6/10/22 **ECHOCARDIOGRAPHIC FINDINGS**
 2D, M-mode, and Doppler study.

PERFORMED BY: There is mild left atrial dilation. The mitral valve leaflets are thickened and exhibit systolic prolapse. There is Doppler evidence of mitral regurgitation present. There is mild left ventricular dilation. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve are normal. Right atrial and right ventricular dimensions are normal. The tricuspid valve leaflets are mildly thickened, and there is Doppler evidence of tricuspid regurgitation present. TR velocity is consistent with the presence of mild pulmonary hypertension (PG 41 mmHg). The pulmonary artery and pulmonic valve appear are normal. No pericardial effusion or cardiac masses are seen.

Dr. Meredith Swart

INTERPRETED BY

Keith Blass, DVM,
 MS, DACVIM
 (Cardiology)

ECG during echo: Sinus rhythm

PATIENT
 Consuela Fike
 LA - 27.8 mm
 LVIDd - 27.6 mm
 LVIDs - 13.5 mm
 FS - 51%
 RA - 16.5 mm
 LVOT - 1.59 m/s
 RVOT - 1.00 m/s
SPECIES
 TR - 3.20 m/s

Canine

ASSESSMENT/RECOMMENDATIONS

Degenerative mitral and tricuspid valve disease
 Pulmonary hypertension

BREED

Chihuahua

This examination demonstrates no evidence of structural heart disease, nor does it demonstrate any cardiac changes that could regurgitation of blood across Consuela's mitral and tricuspid valves resulting from degenerative valve disease. Consuela's tricuspid valve disease is mild, and appears to be well-compensated at this time. Her mitral valve disease is a bit more advanced, as Consuela has mild secondary dilation of both her left atrium and left ventricle, though her left ventricular systolic function is well-preserved. As only mild left heart chamber dilation is present, Consuela'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 still recommended.

SEX

FS

AGE

12 y

Consuela's tricuspid regurgitation velocity is consistent with the presence of mild pulmonary hypertension. Mild pulmonary hypertension is well-tolerated in dogs, though careful monitoring for progression is recommended.

WEIGHT

15 lb

Consuela's cardiovascular risk for general anesthesia is mildly to moderately increased based on this exam, therefore, some precautions should be taken in order to minimize this risk. I recommend avoiding the use of alpha-2 agonists, ketamine, and telazol in the anesthetic protocol, as well as reducing the IV fluid rate by 25%. If possible, monitoring of heart rhythm, blood pressure, and pulse oximetry are recommended during the procedure.

HOSPITAL NAME

Swart Veterinary
 Imaging

I recommend starting Consuela on pimobendan (2.5 mg am, 1.25 mg pm), as this medication should help to slow the progression of her valvular diseases, as well as decrease her anesthetic risk. No therapy is recommended for Consuela's pulmonary hypertension at this time.

REFERRING VET

Dr. Swart

A recheck echocardiogram is recommended in ~6 months. Thoracic radiographs are



recommended if Consuela experiences respiratory clinical signs.

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PATIENT

Consuela Fike

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.

SPECIES

Canine

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.

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

BREED

Chihuahua

SEX

FS

AGE

12 y

WEIGHT

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HOSPITAL NAME

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Imaging

REFERRING VET

Dr. Swart