


PRESENTING CLINICAL SIGNS

DATE History: Previously diagnosed with stage B1 valvular disease.

ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

PERFORMED BY:

Dr. Brian Barnes

INTERPRETED BY

Keith Blass, DVM,
MS, DACVIM
(Cardiology)

There is mild left atrial dilation. The mitral valve leaflets are mildly thickened, and there is prolapse of the anterior leaflet. A mild to moderate jet of systolic mitral regurgitation is present. Trace diastolic mitral regurgitation is present following episodes of second-degree AV block. There is mild left ventricular dilation. Left ventricular systolic function is normal. The aorta and aortic valve are normal. Right atrial and right ventricular dimensions are normal. The tricuspid valve leaflets are mildly thickened, and a mild jet of tricuspid regurgitation is present. TR velocity does not suggest the presence of pulmonary hypertension. The pulmonary artery and pulmonic valve appear normal, though trace pulmonic insufficiency is present. No pericardial effusion or cardiac masses are seen.

ECG during echo: Sinus arrhythmia with occasional 2:1 second-degree AV block

PATIENT

Tia Nicholson

LA - 25.9 mm
LVIDd - 26.2 mm
LVIDs - 15.3 mm
FS - 41.6%

SPECIES

Canine

RA - 18.3 mm
LVOT - 1.45 m/s
RVOT - 0.76 m/s
TR - 2.18 m/s

BREED

Chihuahua

ASSESSMENT/RECOMMENDATIONS

Degenerative mitral and tricuspid valve disease - stage B2
Second-degree AV block

SEX

FS

AGE

12 y

This examination demonstrates regurgitation of blood across Tia's mitral and tricuspid valves resulting from her previously diagnosed degenerative valve disease. Tia's tricuspid valve disease is mild, and is well-compensated at this time. Her mitral valve disease is a bit more advanced, as Tia has mild to moderate mitral regurgitation present, with 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, Tia's current risk for the development of clinical signs secondary to her mitral valve disease, such as coughing, exercise intolerance, syncope, and labored breathing, still appears to be relatively low, though careful monitoring for these signs is recommended.

WEIGHT

3.95 kg

Tia's ECG demonstrates the presence of occasional mild second-degree AV block, which is likely due to elevated vagal tone. Mild AV block is well-tolerated in dogs, though careful monitoring for progression is recommended.

I recommend starting Tia on pimobendan (1.25 mg BID), as this medication should help to slow the progression of her valvular diseases.

HOSPITAL NAME

Westview VH

A recheck echocardiogram and ECG are recommended in 6-9 months. Thoracic radiographs are recommended if Tia experiences respiratory clinical signs.

REFERRING VET

Dr. Barnes



DATE

7/18/23

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INTERPRETED BY

Keith Blass, DVM,
MS, DACVIM
(Cardiology)



PATIENT

Tia Nicholson

SPECIES

Canine

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

BREED

Chihuahua

SEX

FS

AGE

12 y

WEIGHT

3.95 kg

HOSPITAL NAME

Westview VH

REFERRING VET

Dr. Barnes

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.