

PRESENTING CLINICAL SIGNS

History: Two-plus week history of weakness and collapse during exercise. Previous ECG showed RBBB. Grade 2 left-sided murmur. BW WNL.

DATE

12/15/21

ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

PERFORMED BY:

Dr. Brian Barnes

INTERPRETED BY

Keith Blass, DVM,
MS, DACVIM
(Cardiology)

Left atrial size is normal. The mitral valve appears normal, though trace mitral regurgitation is present. Left ventricular dimensions are normal. Left ventricular systolic function is normal. 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 very mildly thickened, and a very 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 shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

ECG during echo: Sinus rhythm with right bundle branch block

PATIENT

Matcha Clausen

LA - 34.6 mm
LVIDd - 33.7 mm
LVIDs - 20.5 mm
FS - 39%
RA - 24.1 mm
LVOT - 1.54 m/s
RVOT - 0.89 m/s
TR - 2.03 m/s
PI - 1.43 m/s

SPECIES

Canine

BREED

Australian Shepherd

ASSESSMENT/RECOMMENDATIONS

Degenerative tricuspid valve disease

SEX

FS

This examination demonstrates very mild regurgitation of blood across Matcha's tricuspid valve resulting from degenerative valve disease. The hemodynamic effects of the regurgitation also appear to be mild, as Matcha does not have secondary dilation of either of her right heart chambers. As such, Matcha's tricuspid valve disease appears to be well-compensated, and it does not appear to be the cause of her weakness/collapse.

AGE

7 y

Given the presence of a right-bundle branch block, if Matcha developed intermittent left-bundle branch block, either at rest or with exercise (heart rate dependent), the transient complete AV block that results could be the cause of her clinical signs. Alternatively, vasovagal episodes and muscular/neuromuscular disease should also be considered as possible causes.

WEIGHT

27 kg

A Holter (including periods of exercise in order to determine whether heart rate dependent LBBB could be present) and/or event monitor may be warranted to further evaluate for an arrhythmia as a possible cause of Matcha's episodes.

HOSPITAL NAME

Westview VH

No therapy is recommended at this stage of Matcha's tricuspid valve disease.

A recheck echocardiogram is recommended in 6-9 months.

REFERRING VET

Dr. Barnes



DATE

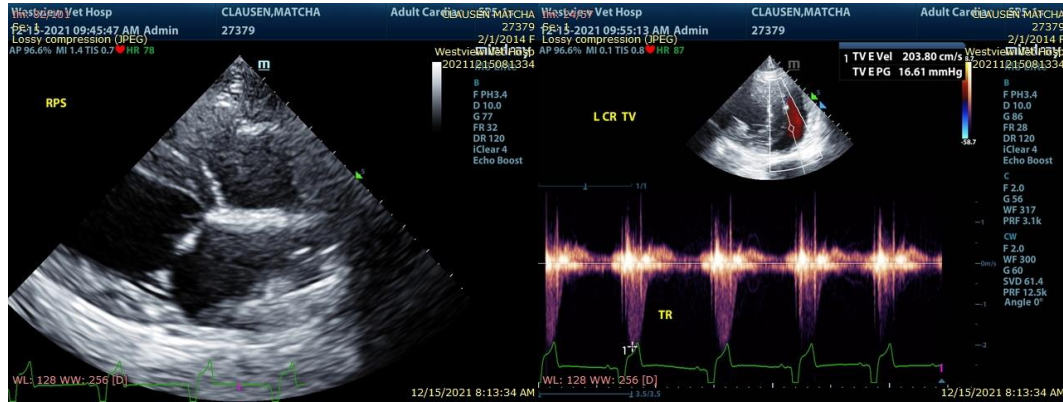
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PATIENT

Matcha Clausen

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.

SPECIES

Canine

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BREED

Australian Shepherd

SEX

FS

AGE

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HOSPITAL NAME

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REFERRING VET

Dr. Barnes