



PRESENTING CLINICAL SIGNS

History: New grade V/VI murmur. Syncope, increased RR, circling, anorexic. Hypothyroid, elevated liver values. Receiving levothyroxine.

DATE

2/18/22

ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

PERFORMED BY:

Shari Reffi, CVT

INTERPRETED BY

Keith Blass, DVM,
MS, DACVIM
(Cardiology)

Left atrial size is normal. The mitral valve leaflets are mildly thickened, and there is Doppler evidence of mitral regurgitation present. Left ventricular dimensions are normal. Left ventricular systolic function is hyperdynamic. 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 mildly thickened, and there is Doppler evidence of tricuspid regurgitation present. TR velocity is consistent with the presence of moderate pulmonary hypertension (PG 77 mmHg). The pulmonary artery and pulmonic valve appear normal, though mild pulmonic insufficiency is present. No heartworms are visualized. No pericardial effusion or cardiac masses are seen.

PATIENT

Milo Belz

LA - 22.0 mm
LVIDd - 18.5 mm
LVIDs - 9.4 mm
FS - 49%
RA - 17.4 mm
LVOT - 1.06 m/s
RVOT - 0.96 m/s
TR - 4.39 m/s

SPECIES

Canine

ASSESSMENT/RECOMMENDATIONS

Degenerative mitral and tricuspid valve disease
Pulmonary hypertension

BREED

Chihuahua

This examination demonstrates regurgitation of blood across Milo's mitral and tricuspid valves resulting from degenerative valve disease. The hemodynamic effects of the regurgitations appear to be mild, as Milo does not have secondary dilation of any of his cardiac chambers, indicating that his valvular diseases appear to be well-compensated.

SEX

MN

Milo's tricuspid regurgitation velocity is consistent with the presence of moderate pulmonary hypertension. It's likely that the pulmonary hypertension is the cause of Milo's syncopal episodes, and it could potentially be contributing to his increased respiratory rate, though consideration should also be given to the presence of a respiratory disease that has resulted in secondary pulmonary hypertension.

AGE

16 y

Recommended therapy for Milo's pulmonary hypertension is sildenafil (10 mg BID-TID). No therapy appears to be warranted for Milo's valvular diseases at this time.

WEIGHT

11 lb

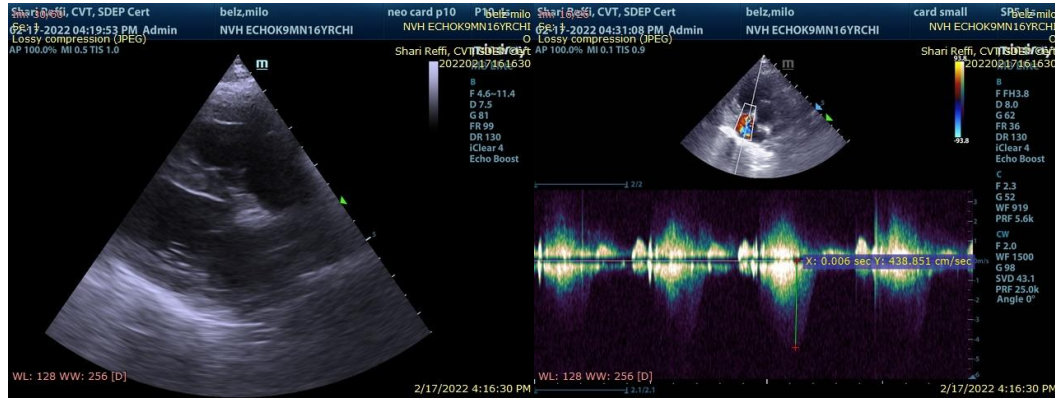
A focused recheck echocardiogram is recommended in ~1 month to reevaluate the severity of Milo's pulmonary hypertension in response to therapy.

HOSPITAL NAME

Newton Vet

REFERRING VET

Dr. Barron



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.

PATIENT

Milo Belz

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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Chihuahua

SEX

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