



## PATIENT

Emma Mittler

## SPECIES

Canine

## BREED

Min. Pinscher

## SEX

FS

## AGE

14 y

## WEIGHT

4.8 kg

## INTERPRETED BY

Keith Blass, DVM, MS,  
DACVIM (Cardiology)

## IMAGING PERFORMED BY

Loetitia Saint-Jacques,  
LVT

## HOSPITAL NAME

Incline VH

## REFERRING VET

Dr. Sovyk

## INVOICE

## DATE

5/22/26

## PRESENTING CLINICAL SIGNS

Grade II/VI murmur.

## ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

Left atrial size is normal. The mitral valve leaflets are mildly thickened, and a mild jet of mitral regurgitation present. Left ventricular dimensions are normal. 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 to moderate jet of tricuspid regurgitation is present. TR velocity is consistent with the presence of mild pulmonary hypertension (PG 36 mmHg). The pulmonary artery and pulmonic valve appear normal, though trace pulmonic insufficiency is present. No shunting lesions are visualized. No heartworms are visualized. No pericardial effusion or cardiac masses are seen.

LA – 24.2 mm  
LVIDd – 23.7 mm  
LVIDs – 16.6 mm  
FS – 30%  
RA – 17.1 mm  
LVOT – 1.52 m/s  
RVOT – 0.74 m/s  
TR – 2.99 m/s

## ELECTROCARDIOGRAPHIC FINDINGS

A six lead ECG is submitted for review.

HR: 116 bpm  
Rhythm: Sinus

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.

## ASSESSMENT/RECOMMENDATIONS

Degenerative mitral and tricuspid valve disease – stage B1

This examination demonstrates regurgitation of blood across Emma's mitral and tricuspid valves resulting from degenerative valve disease. The hemodynamic effects of the regurgitations appear to be mild at present, as Emma does not have secondary dilation of any of her cardiac chambers. As such, Emma's current risk for the development of clinical signs secondary to her valvular diseases, such as coughing, exercise intolerance, syncope, abdominal distension, and labored breathing, appears to be low.

Emma'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.



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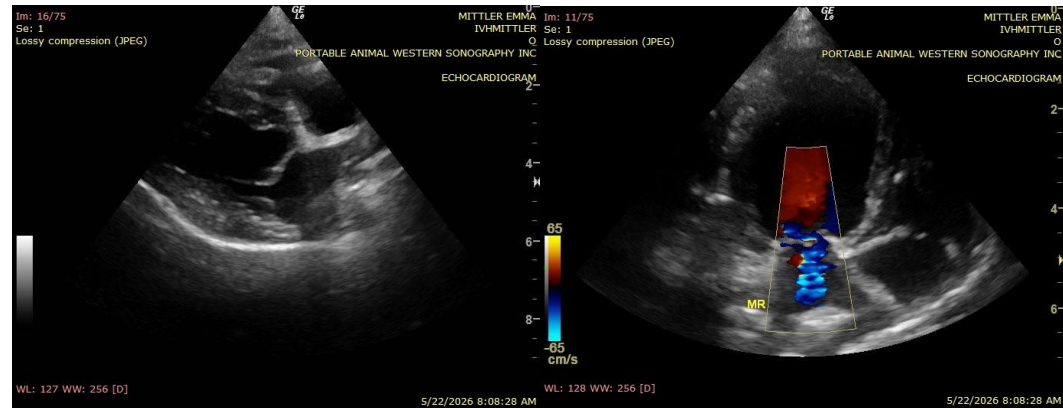
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No abnormalities are appreciated in Emma's ECG.

No therapy is recommended at this stage of Emma's valvular diseases or pulmonary hypertension.

A recheck echocardiogram is recommended in 6 months to monitor for disease progression.



The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. 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.

Keith Blass, DVM, MS, DACVIM (Cardiology) [info@SonoPath.com](mailto:info@SonoPath.com)