


PRESENTING CLINICAL SIGNS

DATE History: Grade 3-4/6 left-sided murmur. Started coughing recently. Pre-anesthetic evaluation (dental). Recently started on pimobendan 1.25 mg BID and enalapril 2.5 mg BID.

9/27/22

ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

PERFORMED BY:

Dr. Meredith Swart

Left atrial size is normal. The mitral valve leaflets are mildly thickened and exhibit mild systolic prolapse. There is Doppler evidence of mitral regurgitation present. Left ventricular dimensions are normal. 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 35 mmHg). The pulmonary artery and pulmonic valve are normal. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

INTERPRETED BY

Keith Blass, DVM,
MS, DACVIM
(Cardiology)

PATIENT

Zoey Lester

LA - 21.6 mm
LVIDd - 21.3 mm
LVIDs - 11.7 mm
FS - 45%
RA - 14.8 mm
LVOT - 1.74 m/s
RVOT - 0.73 m/s
TR - 2.97 m/s

SPECIES

Canine

ASSESSMENT/RECOMMENDATIONS
BREED

Chihuahua Mix

Degenerative mitral and tricuspid valve disease
Pulmonary hypertension

This examination demonstrates regurgitation of blood across Zoey's mitral and tricuspid valves resulting from degenerative valve disease. The hemodynamic effects of each of the regurgitations appear to be mild, as Zoey does not have secondary dilation of any of her cardiac chambers. As such, Zoey's valvular diseases appear to be well-compensated, and it does not appear that her cough is cardiogenic in origin.

SEX

FS

Zoey'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.

AGE

11 y

Zoey's cardiovascular risk for general anesthesia is mildly 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 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.

WEIGHT

19 lb

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

HOSPITAL NAME

Swart Veterinary
Imaging

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

REFERRING VET

Dr. Swart



DATE

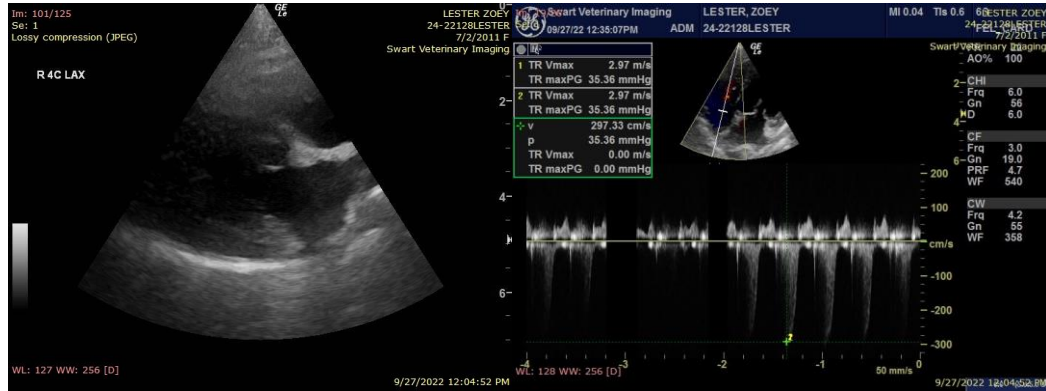
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PATIENT

Zoey Lester

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

Keith Blass, DVM, MS, DACVIM (Cardiology)
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BREED

Chihuahua Mix

SEX

FS

AGE

11 y

WEIGHT

19 lb

HOSPITAL NAME

Swart Veterinary
Imaging

REFERRING VET

Dr. Swart

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.