


PRESENTING CLINICAL SIGNS
DATE History: Grade 4/6 murmur.

ECHOCARDIOGRAPHIC FINDINGS

1/27/23 2D, M-mode, and Doppler study.

PERFORMED BY: There is mild left atrial dilation. The mitral valve appears normal, though trace mitral regurgitation is present. There is moderate to severe left ventricular dilation. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve appear normal, though there is increased flow velocity in the ascending aorta, as well as trace aortic insufficiency. Right atrial and right ventricular dimensions are normal. The tricuspid valve is normal. The pulmonic valve appears normal, though trace pulmonic insufficiency is present. There is color Doppler evidence of turbulent flow in the main pulmonary artery. No pericardial effusion or cardiac masses are seen.

Kim Liedberg

INTERPRETED BY

 Keith Blass, DVM,
 MS, DACVIM
 (Cardiology)

 LA - 21.8 mm
 LVIDd - 28.6 mm
 LVIDs - 16.4 mm
 FS - 41%
 RA - 14.6 mm
 LVOT - 2.44 m/s
 RVOT - 1.25 m/s
 TR - 2.56 m/s

PATIENT

 Gretal Woofgang
 Rescue

ASSESSMENT/RECOMMENDATIONS
SPECIES

Canine

This examination demonstrates moderate to severe dilation of Gretal's left ventricle and mild dilation of her left atrium, as well as turbulent blood flow in her main pulmonary artery. While the origin of the flow cannot be visualized, this is highly suggestive of a left-to-right shunting patent ductus arteriosus (PDA), especially considering that a PDA would cause the left heart chamber dilation seen in this exam. As Gretal only has dilation of her left atrium at present, her risk for the development of left-sided congestive heart failure appears to be relatively low, however, if a PDA is indeed present, that risk will progressively increased over time, and ~2/3 of dogs with PDAs will die within one year of diagnosis in the absence of ductal ligation surgery. Fortunately for Gretal, if a PDA is present, ligation at this stage of disease should be curative.

BREED

Pomeranian

SEX

FI

Referral to a cardiologist is recommended to confirm the presence of a PDA and to determine what type of closure is recommended (though given Gretal's size, open surgical closure will very likely be recommended).

AGE

No medical therapy is recommended at this time if referral is to be performed soon.

4 mo

A recheck echocardiogram is recommended in 6 months if referral is not pursued. Thoracic radiographs are recommended if Gretal experiences respiratory clinical signs.

WEIGHT

5.2 lb

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

Dr. Vivek



DATE

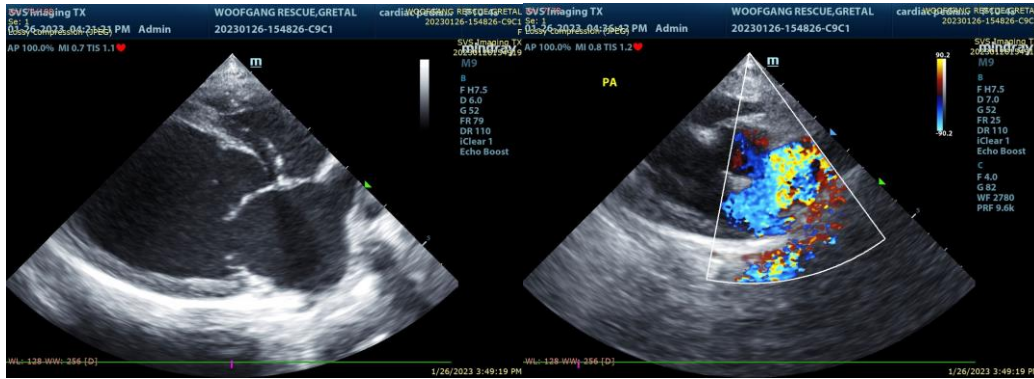
1/27/23

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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

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.

Gretal Woofgang
Rescue

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

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