

**PATIENT PRESENTING CLINICAL SIGNS**

Gretchin Rescue

History: 5/6 heart murmur, breeder reject

**SPECIES ECHOCARDIOGRAPHIC FINDINGS**

Canine

2D, M-mode, and Doppler study.

**BREED**

Bichon Mix

Left atrial size is normal. The mitral valve is normal. Left ventricular wall thickness is normal. There is mild left ventricular dilation. Left ventricular systolic function is normal. The aorta and aortic are normal. Right atrial and right ventricular dimensions are normal. The tricuspid valve appears normal, though mild tricuspid regurgitation is present. The pulmonic valve appears normal, though trace pulmonic insufficiency is present. There is continuous retrograde turbulent flow in the distal main pulmonary artery, consistent with a left-to-right shunting patent ductus arteriosus. No pericardial effusion or cardiac masses are seen.

**SEX**

Female

**AGE**

4 months

**WEIGHT**

3.8 lbs

LA - 16.7 mm  
IVSd - 4.0 mm  
LVPWd - 3.7 mm  
LVIDd - 19.4 mm  
LVIDs - 11.1 mm  
FS - 42.7%  
LVOT - 1.74 m/s  
RVOT - 1.34 m/s  
TR - 2.43 m/s

**INTERPRETED BY ELECTROCARDIOGRAPHIC FINDINGS**

Keith Blass, DVM,  
MS, DACVIM

A single lead ECG is submitted for review.

HR: 150 bpm  
Rhythm: Sinus

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
ARDMS/RVT

Normal sinus rhythm and mild sinus tachycardia are present in this recording. All complex amplitudes and intervals are within normal limits. No premature beats or conduction blocks are seen.

**ASSESSMENT/RECOMMENDATIONS**

**HOSPITAL NAME**

New Britain VC

Patent ductus arteriosus (PDA)

This examination demonstrates continuous retrograde turbulent flow in Gretchin's main pulmonary artery, consistent with the presence of a left-to-right shunting PDA. Secondary to her shunt, Gretchin has mild dilation of her left ventricle, though her left atrial size is still normal. While left atrial dilation is not yet present, approximately 2/3rds of dogs with PDAs will die within one year of diagnosis if closure/ligation is not performed due to the development of progressive left-sided cardiac volume overload leading to congestive heart failure and/or myocardial failure. The good news for Gretchin is that closure of her ductus in the near future should be curative.

**REFERRING VET**

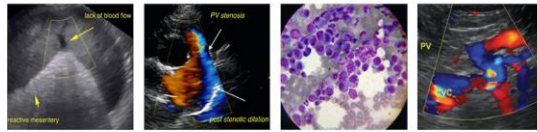
Dr. Bandekar

**DATE**

12.2.2021

Referral to a cardiologist is recommended to confirm the type of PDA present, though, given Gretchin's size, surgical, rather than interventional, closure/ligation would likely be recommended.

If PDA closure is to be performed soon, no medical therapy would be recommended. If closure is delayed and Gretchen develops more significant left-sided volume overload, medical therapy may



**PATIENT** be warranted.

Gretchen Rescue  
**SPECIES** Gretchen's echocardiogram also demonstrates the presence of mild tricuspid regurgitation, likely due to the presence of a mild form of valvular dysplasia. The hemodynamic effects of the regurgitation are negligible, and will likely remain so going forward.

Canine A recheck echocardiogram is recommended in 4 months if PDA closure is not pursued.

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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.

**HOSPITAL NAME**

New Britain VC

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)  
KeithBlass@gmail.com  
631-804-5754

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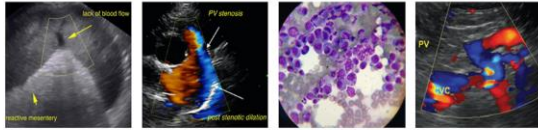
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PAMobileVet.com 443-794-4700



EDUCATIONAL TELECONSULTATION SERVICES™

1-800-838-4268 info@sonopath.com SonoPath.com

**PATIENT**

Gretchin Rescue

**SPECIES**

Canine

**BREED**

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