


**PRESENTING CLINICAL SIGNS**
**DATE**

History: Presented for lethargy and unwillingness to hunt. Lyme positive on 4Dx but previously positive two years ago. VHS 11.4. PE – sinus arrhythmia/bradycardia (HR 50), but athletic dog. ECG showed NSR, HR 130 bpm.

10/5/22

**ECHOCARDIOGRAPHIC FINDINGS**

2D, M-mode, and Doppler study.

**PERFORMED BY:**

Dr. Fred Gromalak

Left atrial size is normal. The mitral valve is normal. Left ventricular dimensions are normal. Left ventricular systolic function is normal. The aorta and aortic valve appear normal, though there is mildly increased flow velocity in the ascending aorta. Right atrial and right ventricular dimensions are normal. The tricuspid valve is normal. The pulmonary artery and pulmonic valve appear normal, though trivial pulmonic insufficiency is present. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

**INTERPRETED BY**

Keith Blass, DVM,  
MS, DACVIM  
(Cardiology)

LA – 43.8 mm  
LVIDd – 42.6 mm  
LVIDs – 27.7 mm  
FS – 35%  
RA – 30.1 mm  
LVOT – 2.12 m/s  
RVOT – 1.48 m/s

**PATIENT**

Mack Nettesheim

**ASSESSMENT/RECOMMENDATIONS**
**SPECIES**

Normal echocardiogram

**Canine**

This examination demonstrates no evidence of structural heart disease. As such, no reason for Mack's lethargy is appreciated in the image set. Mack does have mildly increased flow velocity in his aorta, which could potentially result in the auscultation of a left basilar functional/innocent murmur.

**BREED**
**Labrador Retriever**

Mack's ECG shows that his heart rate can increase appropriately in response to stimulation, therefore, it appears unlikely that his resting bradycardia is the cause of his lethargy.

**SEX**

No therapy is recommended based on this exam.

**M**

A Holter monitor can be considered to evaluate for the presence of a pathologic arrhythmia that could potentially contribute to Mack's lethargy over a much longer time period.

**AGE**

A recheck echocardiogram is recommended if new physical exam and/or clinical abnormalities suggestive of the presence of structural heart disease develop.

4 y

**WEIGHT**

74 lb

**HOSPITAL NAME**

SVS Imaging

**REFERRING VET**

Dr. Gromalak



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PATIENT

Mack Nettesheim

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WEIGHT

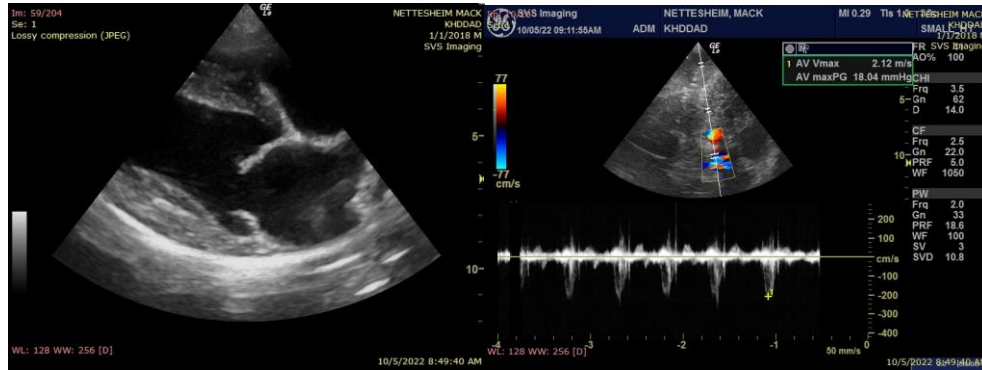
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Dr. Gromalak



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.

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