

**PATIENT PRESENTING CLINICAL SIGNS**

Lilly Kripps

History: 2/6 systolic apical murmur, pre surg

**SPECIES ECHOCARDIOGRAPHIC FINDINGS**

Canine

Multiple 2D, M-mode, and Doppler video loops and still images are submitted for review.

**BREED**

Jack Russell Terrier

There is mild left atrial dilation. The mitral valve leaflets are thickened and exhibit systolic prolapse. A mild to moderate jet of eccentric mitral regurgitation is present. There is mild left ventricular dilation. Left ventricular systolic dysfunction 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 a mild jet of tricuspid regurgitation is present. The pulmonary artery and pulmonic valve are normal. No heartworms are visualized. No pericardial effusion or cardiac masses are seen.

**SEX**

Female

ECG: Sinus rhythm

**AGE**

12 years

LA - 27.5 mm  
LVIDd - 26.7 mm  
LVIDs - 11.0 mm  
FS - 58.8%

**WEIGHT**

12.5 lbs

LVOT - 1.58 m/s  
RVOT - 0.96 m/s  
TR - 2.13 m/s

**INTERPRETED BY ASSESSMENT/RECOMMENDATIONS**

Keith Blass, DVM,  
MS, DACVIM

Degenerative mitral and tricuspid valve disease

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
ARDMS/RVT

This examination demonstrates regurgitation of blood across Lilly's mitral and tricuspid valves resulting from degenerative valve disease. Lilly's tricuspid valve disease is mild, and is well-compensated at this time. Her mitral valve disease is a bit more advanced, as Lilly has mild to moderate mitral regurgitation present, with mild secondary dilation of both her left atrium and left ventricle, though her left ventricular systolic function is well-preserved. As only mild left heart chamber dilation is present, Lilly's mitral valve disease appears to be well-compensated, and her current risk for the development of clinical signs of left-sided cardiac dysfunction, such as coughing, exercise intolerance, syncope, and labored breathing, appears to be relatively low.

**HOSPITAL NAME**

Brodheads ville VC

Lilly'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, ketamine, and telazol 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.

**REFERRING VET**

Dr. Goldstein

I recommend starting Lilly on pimobendan (1.25 mg BID), as this medication should help to slow the progression of her valvular diseases, as well as decrease her risk for anesthesia.

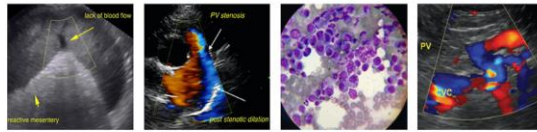
**DATE**

12.9.2021

A recheck echocardiogram is recommended in ~9 months to monitor for disease progression.

IMAGING PERFORMED BY

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**PATIENT**

Lilly Kripps

**SPECIES**

Canine

**BREED**

Jack Russell Terrier



**SEX**

Female

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.

**AGE**

12 years

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.

**WEIGHT**

12.5 lbs

Keith Blass, DVM, MS, DACVIM (Cardiology)  
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631-804-5754

**INTERPRETED BY**

Keith Blass, DVM,  
MS, DACVIM

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Rebekah Jakum, CVT  
ARDMS/RVT

**HOSPITAL NAME**

Brodheads ville VC

**REFERRING VET**

Dr. Goldstein

**DATE**

12.9.2021