

**PATIENT**

Dudley Robertson

**SPECIES**

Feline

**BREED**

Siamese

**SEX**

Neutered Male

**AGE**

5 Years

**WEIGHT**

8.15 pounds

**INTERPRETED BY**

Sara Brethel, DVM,  
 DACVIM (Cardiology)

**PRESENTING CLINICAL SIGNS**

- P presented for Labored breathing, Grade 3/6 murmur, pro bnp abnormal, started on Convenia due to suspected pneumonia. P groomed at other vet 10-14 days ago and then developed labored breathing

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

| FELINE CARDIAC PARAMETERS  | BODY WEIGHT (kg) | HR (BPM)                  | IVSd (cm)            | LVIDd (cm) | LVWd (cm)      | FS (%)         | LVIDs (%) |
|--|------------------|---------------------------|----------------------|------------|----------------|----------------|-----------|
| NORMAL PARAMETER   | -----            | 150-240                   | 0.3-0.6              | 1.0-2.1    | 0.25-0.6       | 35-67          |           |
| PATIENT  | 3.7              | NM                        | 0.63                 | 1.36       | 0.55           | 63.23          | 0.5       |
| FELINE CARDIAC PARAMETERS  | LA/AO (M-mode)   | LA/AO HEART BASE (Sisson) | LAD LA MAX 4 Chamber |            | LVOT VEL (m/s) | RVOT VEL (m/s) | MR (m/s)  |
| NORMAL PARAMETER   | <1.5             | 1.6                       | 0.7-1.7              |            | <1.6           | <1.3           |           |
| PATIENT  | 1.47             | 1.49                      | 1.49                 |            | 3.63           | 1.33           | 7.57      |
| Adapted from June Boon, Veterinary Echocardiography, 1998<br>Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705 |                  |                           |                      |            |                |                |           |

**Cardiac Presentation**

The mitral valve leaflets are normal and there is mild mitral regurgitation. There is no prolapse of the mitral valve leaflets. The left atrial size is at the upper limits of normal to mildly increased. Left ventricular systolic function appears preserved. Left ventricular diastolic dimensions are within normal limits. There is evidence of systolic anterior motion of the mitral valve and there is a discrete step up in velocities through the left ventricular outflow tract. There is evidence of a kissing lesion at the level of SAM and the left ventricular myocardium appears hyperechoic in some regions. Left ventricular walls measure hypertrophied. There is normal right atrial size without evidence of tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension on the images provided. There is evidence of dynamic right ventricular outflow tract obstruction. The aortic and pulmonic valves have normal morphology and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

**Chest Radiographs**

There is mild left atrial enlargement. The pulmonary vasculature is normal. There does not appear to be evidence of cardiogenic pulmonary edema.

**ULTRASONOGRAPHIC FINDINGS**

Kathleen Byrnes

**HOSPITAL NAME**

Animal Hospital of Boone

**REFERRING VET**

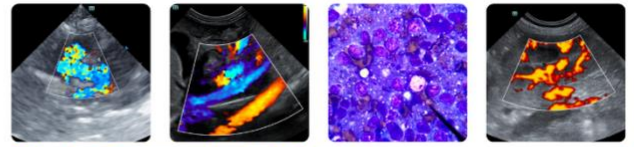
Dr. Watson

**INVOICE**

13834

**DATE**

02/16/26



**PATIENT**

Dudley Robertson

- Hypertrophic obstructive cardiomyopathy.
- Mild left atrial enlargement versus left atrium being at the upper limits of normal.
- Mitral regurgitation.
- Dynamic right ventricular outflow tract obstruction.

**SPECIES**

Feline

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**BREED**

Siamese

The patient has evidence of left ventricular concentric hypertrophy and is classified as a stage B1 due to the normal left atrial size. If not already performed, it is recommended to ensure that patients blood pressure is normal and the patient is euthyroid. If the patient is euthyroid and normotensive, then the patient has underlying hypertrophic cardiomyopathy. No cardiac medications are indicated at this time as the patient is at a low risk for complications associated with this condition. Since this can be a progressive condition, serial monitoring is recommended. It's recommended to recheck an echocardiogram in 6 months, sooner if the patient develops cardiovascular clinical signs.

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The chest radiographs do not show evidence of cardiogenic pulmonary edema or pleural effusion. The respiratory signs do not appear to be primarily cardiac, and no diuretic therapy is recommended at this time. Serial monitoring is recommended as this can be a progressive condition.

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8.15 pounds

Recommend obtaining a blood pressure on the patient to ensure it is <160mmHg. If the blood pressure is elevated recommend following ACVIM guidelines for systemic hypertension and treating if indicated.

**INTERPRETED BY**

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**IMAGING PERFORMED BY**

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 Boone

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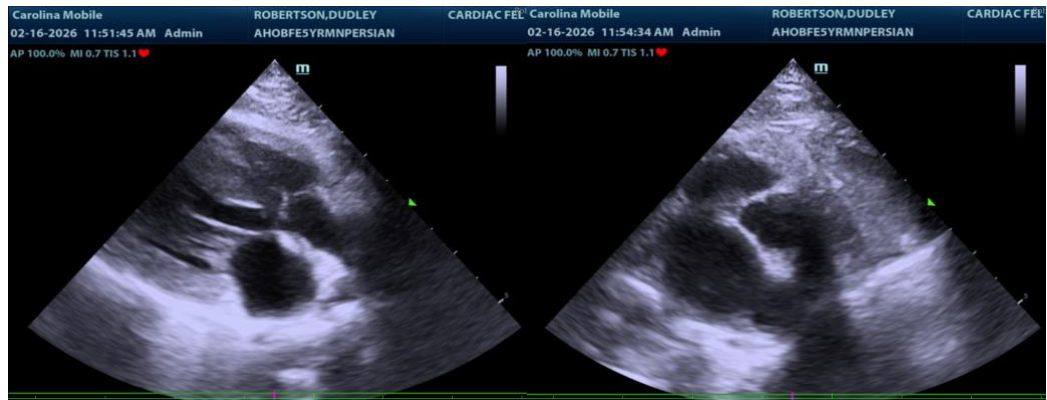
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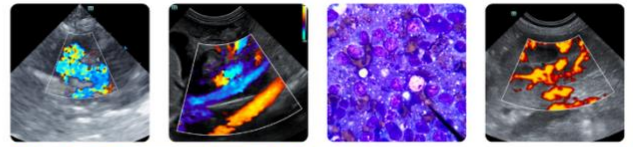


The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Sara Brethel, DVM, DACVIM (Cardiology)

[info@SonoPath.com](mailto:info@SonoPath.com)



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