



## PATIENT

Meri Evers

## SPECIES

Feline

## BREED

American Shorthair

## SEX

Spayed female

## AGE

14 years

## WEIGHT

8.6 lbs

## INTERPRETED BY

Bradley Harris, DVM,  
DACVECC, DACVIM  
(cardiology)

## IMAGING PERFORMED BY

Karen Ebersole DVM  
DABVP (canine &  
feline)

## HOSPITAL NAME

Scanvet

## REFERRING VET

Dr. Fortin

## INVOICE

77811

## DATE

5/20/26

## PRESENTING CLINICAL SIGNS

History: Echo for new HM. Presented in April for vocalization in the early morning, sounds like howling. Coughs a few times a month, seems to pick up more in the spring. Doing fine otherwise. No sedation for echo.

PE (4/22/26): BCS 5/9. Grade 2/6 systolic heart murmur. Dilated pupils today when presented for Echo. CXR (today). BP systolic (today prior to echo) - 270-280 systolic (Doppler) BW 11/2025 - T-4 2.3, K+ 3.6 slt L. proBNP 192. USG 1.020, Blood - trace (collected via cysto). BP 170 slt H, very nervous.

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The left atrium is normal in dimension. There are no distinct left atrial thrombi/clots or spontaneous echo contrast appreciated. The left ventricle is normal in dimension as well as overall wall thickness, with a focal region of septal hypertrophy. Left ventricular systolic function is normal, with adequate contractility based on fractional shortening and systolic left ventricular dimensions. The right atrium and ventricle are subjectively normal in dimension and systolic function. There is evidence of systolic anterior motion of the mitral valve with mild mitral regurgitation. The tricuspid valve leaflets presented normal linear structure, extension in systole, and union in diastole without regurgitation. The left ventricular outflow tract demonstrated turbulent flow and subjective structural valvular integrity. The visible aorta is unremarkable. Pulmonary outflow tract assessment revealed normal valve structure, laminar flow, and appropriate diameter and distensibility. There is no evidence of semilunar valve insufficiency or pulmonary hypertension documented. There is no visible pericardial, pleural, or free peritoneal fluid noted.

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	3.91 kg	150	0.46	1.56	0.53	61	92
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)	IVRT (m/)
NORMAL PARAMETER	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
PATIENT	1.1	0.91	NM		1.1	0.8	NM
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

## ULTRASONOGRAPHIC FINDINGS

These findings are consistent with dynamic subaortic stenosis, as there is SAM present, but no convincing hypertrophy is identified. Focal septal hypertrophy may represent a secondary change due to the systemic hypertension, but may also represent early hypertrophic cardiomyopathy.



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## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given the absence of any underlying heart disease, no cardiac therapy will be recommended. Therapy and additional diagnostics for the systemic hypertension is indicated according to the ACVIM consensus guidelines. In addition, there are no cardiac objections to fluid therapy or steroid use. Owing to the presence of an outflow tract obstruction, a follow up echo is recommended in another 6-12 months to make sure no progression has occurred.

### Anesthesia considerations:

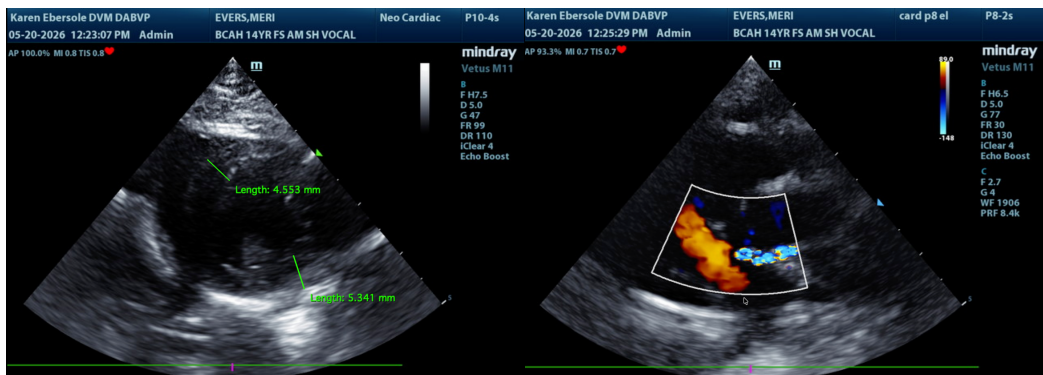
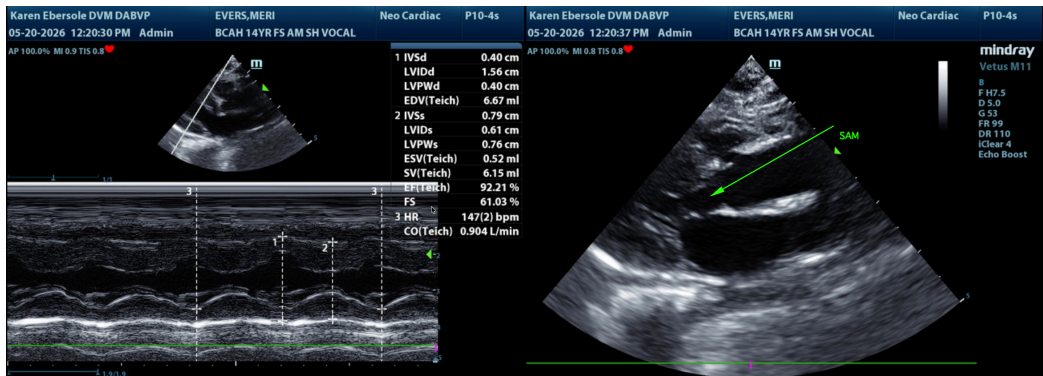
If anesthesia is necessary, then alpha-2 agonists, ketamine, high dose acepromazine, and Telazol should be avoided. Fluid therapy during anesthesia should be considered at a reduced rate (e.g., 5 ml/kg/hour) if possible (i.e., if not hypotensive). A shorter anesthetic duration will reduce the risk of complications. Pre-oxygenation is advised. Premedication with an opioid (i.e., butorphanol, hydromorphone, oxymorphone) with or without a benzodiazepine is generally the safest protocol. An induction agent such as Propofol, alfaxalone can be used to effect. Maintenance of anesthesia with isoflurane or sevoflurane is reasonable.

### Diet:

No special considerations are necessary. Any high-quality food from Hills, Royal Canin, Science Diet, Eukanuba, Iams, or Purina is reasonable.

### Activity:

No special considerations are necessary.





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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.

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

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