

PATIENT PRESENTING CLINICAL SIGNS

Daisy Hess Murmur still present grade 3/6 heard both left and right parasternal regions

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Feline

BREED

DSH

SEX

Intact Female

AGE

12 Weeks

WEIGHT

4 Pounds

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm) Long axis	LVWd (cm) Long axis	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	1.82	161	0.22 (close to apex)	1.24	0.22	58	NM
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	1.1	1.27 (Sisson) 1.11 (ACVIM)	0.97	laminar 0.90	laminar 0.97	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							

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Orchard View VC

REFERRING VET

Dr. Rowland

INVOICE

40075

DATE

8/2/22

Echocardiographic findings

Mitral valve

- Valve leaflets: No abnormalities
- Mitral regurgitation: absent
- Left atrium: No left atrial enlargement
- Left auricle: No obvious abnormalities
- LA: Ao ratio: Within normal limits
- Left ventricle: Within normal limits
- No evidence of "smoke"
- No abnormalities are observed with the E and A waves

Tricuspid valve

- Valve leaflets: No obvious or overt abnormalities visualized, however, subtleties may be missed due to angle of interrogation and interference from the lungs.
- Tricuspid regurgitation: Mild (2.13 m/s)
- Right atrium: No enlargement
- Right auricle: No enlargement
- Right ventricle: No enlargement



PATIENT

Aortic valve

Daisy Hess

- Valve leaflets: No abnormalities
- Aortic insufficiency: Absent
- Very mild turbulent blood flow in the left ventricular outflow tract

SPECIES

Feline

Pulmonic valve

- Valve leaflets: No abnormalities
- Pulmonary insufficiency: absent
- Turbulent blood flow seen intermittently in the right ventricular outflow tract

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Other

Intact Female

- No obvious congenital deformities, although further evaluation of the entire interventricular septum is suggested to exclude a very small interventricular septal defect (which can cause loud murmur).
- Pulmonary edema: absent
- Pericardial and pleural effusion: absent
- Pulmonary veins: No obvious abnormalities
- Intracardiac mass: No obvious abnormalities
- Papillary muscles: NAF
- Endocardium: NAF
- Myocardium: NAF

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ULTRASONOGRAPHIC FINDINGS

Cardiac

The heart appears to be within normal limits structurally. The murmur appears to be caused by turbulent blood flow in the left ventricular outflow tract, intermittently turbulent blood flow in the right ventricular outflow tract, as well as mild tricuspid valve regurgitation. No obvious or overt abnormalities visualized with the tricuspid valve, although very subtle abnormalities may be inadvertently overlooked due to angle of interrogation and/or interference from the lungs.

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Daisy should be re-auscultated prior to or at the time of Daisy's ovariohysterectomy. Administration of a low dose of gabapentin and/or use of Feliway on her blanket and her carrier prior to transportation to the clinic and in the exam room upon her arrival may be considered to help decrease her anxiety level. This may help determine if the murmur is physiological (i.e., if it is no longer present or if it is not as loud with decreased stress level). A re-evaluation of the echocardiogram is suggested if the intensity of the murmur is stable or has increased. Evaluation for a small VSD of the entire IVS with colour Doppler may also be performed.

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There is no need for medication, nor are there contraindications to pursue general anesthesia at this time.

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PATIENT INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Daisy Hess Cardiac

SPECIES Daisy should be re-auscultated at six months of age or just prior to her ovariohysterectomy (whichever occurs sooner).

Feline See above regarding re-auscultation with the use of gabapentin or other means of decreasing anxiety, +/- re-evaluation of the echocardiogram.

BREED DSH
ADDENDUM TO REPORT ADDED 9/12/22

SEX Intact Female
Upon further review of additional images of the right heart and left ventricular outflow tract, no evidence of congenital lesions present. Trivial aortic insufficiency present, yet not clinically significant. No contraindication to anesthetic procedure. If the murmur is still present at one year of age, then recheck echocardiogram recommended at that time.

AGE 12 Weeks

WEIGHT 4 Pounds

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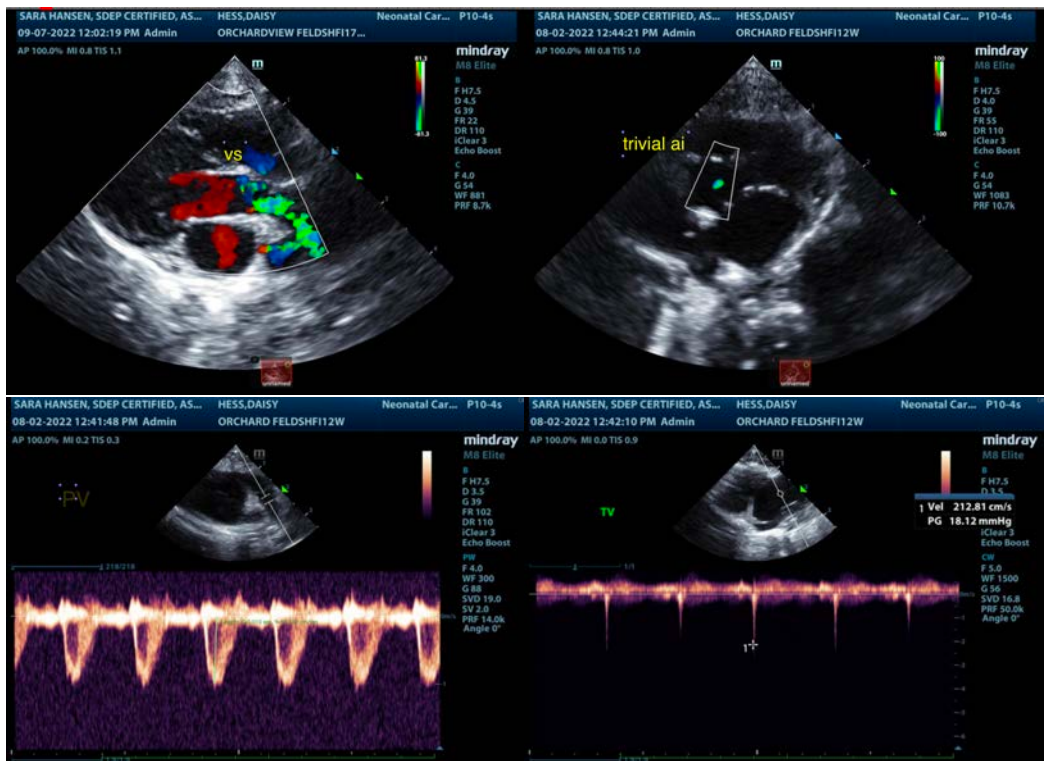
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PATIENT

Daisy Hess

SPECIES

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Intact Female

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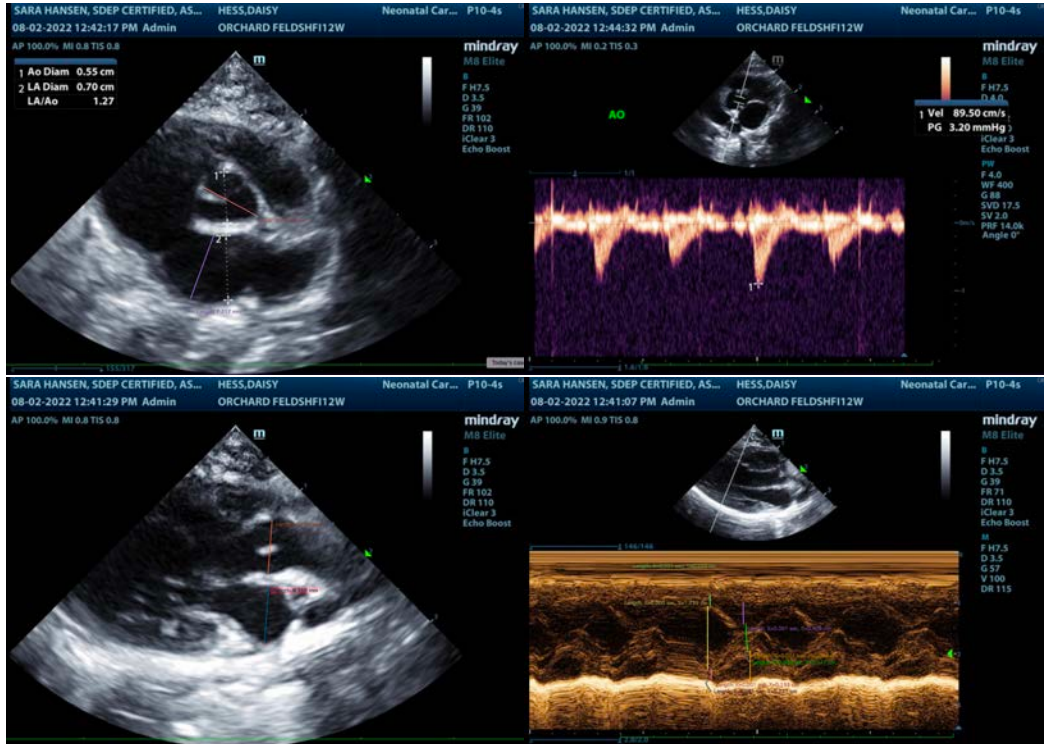
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

Lisa.Carioto@sonopath.com