



PATIENT

Velvet HTS

SPECIES

Feline

BREED

DSH

SEX

FI

AGE

6 years

WEIGHT

5.13lbs

PRESENTING CLINICAL SIGNS

History: Velvet was noted to have a heart murmur in January. Presents for echocardiogram prior to spay. She is eating well with normal activity level and no exercise intolerance. On exam today: NSR, grade IV/VI parasternal murmur, PSS, lung fields clear, compressible thorax . BP: 140 mmHg x 5. *Sedated with propofol for study.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and Doppler imaging is available.

Left ventricle: The LV diameter is normal in dimension with adequate myocardial function. LV wall thicknesses are normal. The papillary muscles remodeled. False tendon. A restrictive perimembranous ventricular septal defect (VSD) is visualized; 0.2cm in diameter. The flow is left to right and high velocity (5.7m/s).

Left atrium: The left atrium is mildly enlarged.

Mitral valve: The MV appears normal. No MR.

Aortic valve/aorta: The aortic valve is normal in morphology and mobility. Normal aortic outflow velocity; laminar flow. No aortic insufficiency.

Right ventricle: The RV appears normal with no evidence of hypertrophy.

Right atrium: Normal RA dimension.

Tricuspid valve: The tricuspid valve appears mildly thickened. The septal leaflet appears associated with the defect with trace tricuspid regurgitation.

Pulmonic valve/pulmonary artery: The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency. Normal RVOT velocity; laminar flow.

Pericardium/other: No pericardial or pleural effusion noted. No obvious cardiac masses.

Heart rhythm: ECG reveals a sinus rhythm with an average HR of 160bpm.

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

2-Dimensional Measurements

Ao diam (cm)	1.8
LA diam (cm)	1.4
LA:Ao (Swe)	1.55
IVS thickness (cm)	0.35
LVID diastole (cm)	1.6
PW thickness (cm)	0.35
LVID systole (cm)	0.9
FS (%)	44

Doppler Measurements

PV Vmax (m/s)	1.0
AoV Vmax (m/s)	1.5
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

IMAGING

PERFORMED BY

Pamela Harrigan,
RDCS

HOSPITAL NAME

Mass Veterinary Services

REFERRING VET

Dr. Masloski

INTERPRETATION OF THE FINDINGS

The cause of the murmur is a perimembranous ventricular septal defect (VSD). The defect is restrictive, with high velocity left to right flow. Mild left atrial enlargement is present, indicating the disease is well compensated for. Additionally, the TV is mildly thickened and the septal leaflet is overlying the defect. Trace TR is resulting, which appears hemodynamically insignificant. Assessment of progression in the future will help predict long term prognosis, which is generally good with this size defect. Most small congenital shunts are able to live a normal life free of medications.

INVOICE

24139

DATE

5/10/22

It is important to note that no medications have been shown to alter outcome in sub-clinical feline heart disease prior to CHF. Given the generally favorable prognosis with a small defect, there is no obvious indication for medications.

Prognosis is open long-term.



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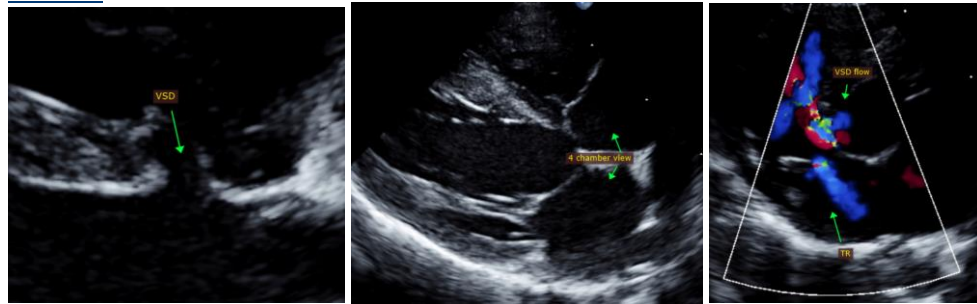
RECOMMENDATIONS

- No medications are indicated.
- Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit.
- No cardiac contraindication for general anesthesia. Mild IV fluid restriction is advised.
- Monitor for any breathing change, signs of a blood clot event, or collapse episodes going forward.

PLAN

- Recommend conservative monitoring with a recheck echocardiogram annually, sooner if any development of clinical signs.

IMAGES



INTERPRETED BY

Maggie Machen Lamy, DVM
DACVIM (Cardiology)

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. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
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HOSPITAL NAME

Mass Veterinary Services

Echocardiogram performed by: Pamela Harrigan, RDCS
Pet Animal Ultrasound Service (4paus.com)

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