



PATIENT
Miss Molly Sweetpea
Canterbury

SPECIES
Feline

BREED
DSH

SEX
Female Intact

AGE
1 year

WEIGHT
9.5lbs

INTERPRETED BY
Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING PERFORMED BY
Pamela Harrigan,
RDCS

HOSPITAL NAME
Mass Veterinary
Services

REFERRING VET
Dr. Masloski

INVOICE
28434

DATE
1/18/23

PRESENTING CLINICAL SIGNS

History: Miss Molly Sweetpea was a stray cat who was taken in. Discovered she was pregnant - She gave birth to kittens 3 weeks ago. Radiographs revealed an enlarged heart. She has a good appetite. On exam today: NSR, grade IV/VI parasternal murmur, PSS, lung fields clear, compressible thorax, mm pink, moist, CRT<2. BP: 140mmHg 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 mildly increased in dimension with adequate myocardial function. LV wall thicknesses are normal. The papillary muscles are mildly remodeled. A restrictive perimembranous ventricular septal defect (VSD) is visualized just below the aortic valve. Flow is left to right and high velocity (5.1m/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 normal. No tricuspid regurgitation.

Pulmonic valve/pulmonary artery: The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency. The MPA and branches are dilated.

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

2-Dimensional Measurements

Ao diam (cm)	1.0
LA diam (cm)	1.4
LA:Ao (Swe)	1.4
IVS thickness (cm)	0.43
LVID diastole (cm)	1.86
PW thickness (cm)	0.36
LVID systole (cm)	0.74
FS (%)	60

Doppler Measurements

PV Vmax (m/s)	NM
AoV Vmax (m/s)	1.3
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

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 and ventricular enlargement is present, indicating the disease is well compensated for at this time. The MPA is more dilated than is expected with this defect; however, no additional pathology is appreciated. Assessment of progression in the future will help predict long term prognosis, which is generally fair with this size defect.

Screening the kittens for murmurs is recommended, as congenital disease can be passed down.

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.



PATIENT

Prognosis is fair long-term.

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RECOMMENDATIONS

- No medications are indicated.
- If any of the kittens have a murmur, an echocardiogram is recommended.
- 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.

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PLAN

- Recommend conservative monitoring with a recheck echocardiogram in 1 year, sooner if any development of clinical signs.

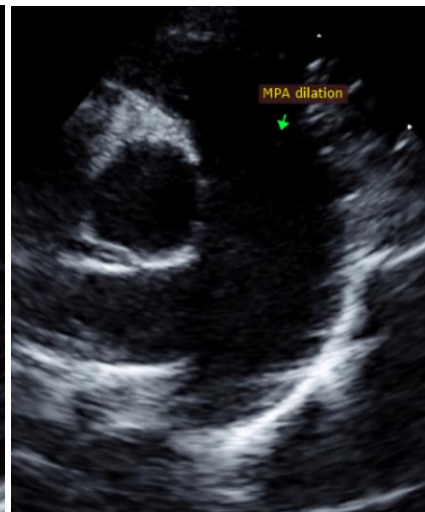
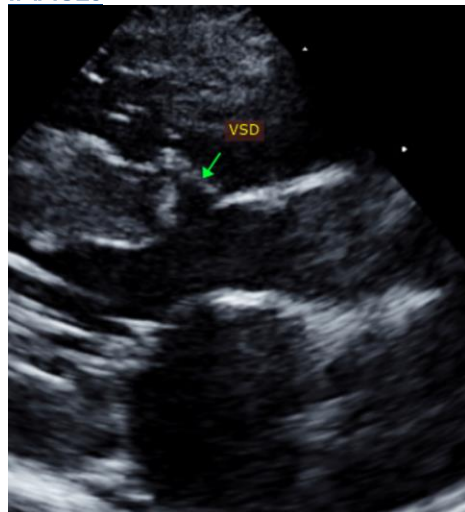
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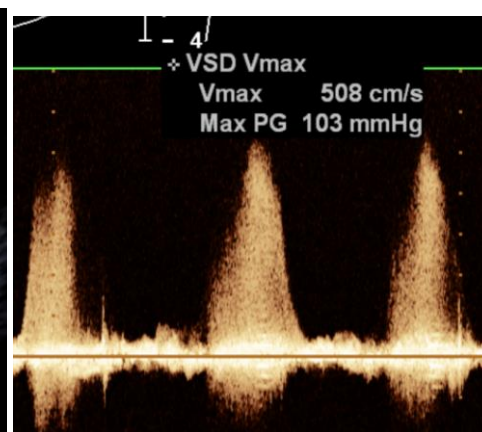
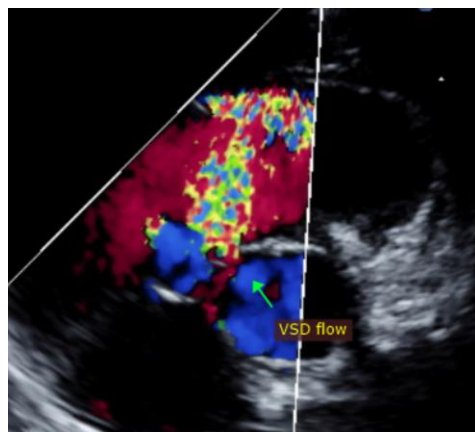
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IMAGES



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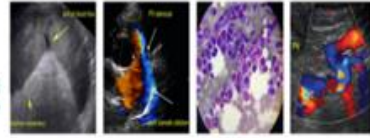
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not



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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.

SPECIES

Feline

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

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

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