

**PATIENT**

Lola Karolyshyn

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Female Spayed

**AGE**

8 years

**WEIGHT**

12lbs

**INTERPRETED BY**

Maggie Machen  
Lamy, DVM  
DACVIM (Cardiology)

**IMAGING  
PERFORMED BY**

Pamela Harrigan,  
RDCS

**HOSPITAL NAME**

Mass Veterinary  
Specialty Services

**REFERRING VET**

Dr. Masloski

**INVOICE**

21246

**DATE**

9/28/21

**PRESENTING CLINICAL SIGNS**

History: Recheck echo. History restrictive perimembraneous VSD. Currently, Lola is doing well with no clinical issues. Good appetite and normal activity level. CV/RESP: NSR, grade III/VI murmur with PMI on sternum, PSS, lung fields clear, compressible thorax. BP: 140mmHg x 4. No medications.  
-Pertinent previous echo findings (12/5/16 Mark Stamoulis, DVM): LA 1.3 cm; LA:Ao 1.08; LV 1.88 cm; VSD 6 m/s.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and Doppler imaging is available.  
**Left ventricle:** Normal LV with adequate myocardial function. LV wall thicknesses are normal. A small perimembraneous septal defect is present, likely with partial aneurysmal closure. The flow is left to right; max velocity 4.5m/s.  
**Left atrium:** The left atrium is normal.  
**Mitral valve:** The mitral valve is normal with no mitral regurgitation.  
**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 with mild tricuspid regurgitation. Normal velocity.  
**Pulmonic valve/pulmonary artery:** The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency. Normal RVOT velocity; laminar flow. No MPA dilation.  
**Pericardium/other:** No pericardial or pleural effusion noted. No obvious cardiac masses.  
**Heart rhythm:** ECG reveals a sinus rhythm with an average HR of 188bpm.

**2-Dimensional Measurements**

Ao diam (cm)	0.9
LA diam (cm)	1.3
LA:Ao (Swe)	1.4
IVS thickness (cm)	0.41
LVID diastole (cm)	1.48
PW thickness (cm)	0.41
LVID systole (cm)	0.81
FS (%)	47

**Doppler Measurements**

PV Vmax (m/s)	0.55
AoV Vmax (m/s)	0.83
MR Vmax (m/s)	NA
TR Vmax (m/s)	2.0
TR PG (mmHg)	20

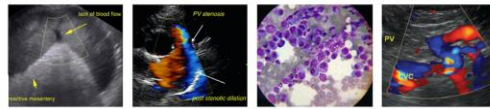
**INTERPRETATION OF THE FINDINGS**

The previously diagnosed VSD persists without evidence of left heart changes. The defect is relatively small with suspicion for partial aneurysmal closure. The defect appears high velocity and left to right flow with no evidence of volume overload. No additional issues are identified, and the remainder of the cardiac structure and function is normal.

Given these findings, this defect is likely of little clinical significance going forward. Periodic monitoring is reasonable to ensure development of concurrent disease is not missed.

**RECOMMENDATIONS**

- Given these findings, no medications are indicated.



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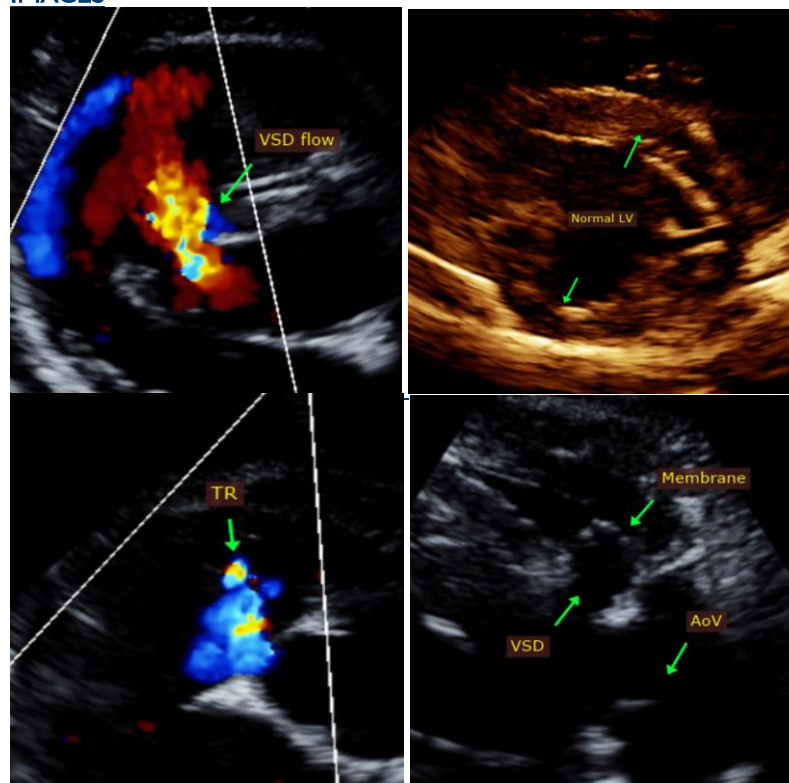
Pamela Harrigan,  
RDCS

- 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 in 12-18 months, sooner if any change in physical exam or clinical signs.

**IMAGES**



**HOSPITAL NAME**

Mass Veterinary  
Specialty Services

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.

**REFERRING VET**

Dr. Masloski

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.

**INVOICE**

21246

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

**DATE**

9/28/21

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