



PATIENT

Jordan Magnuson

SPECIES

Feline

BREED

DSH

SEX

Male Neutered

AGE

11 weeks

WEIGHT

5lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Fred Gromalak, DVM

HOSPITAL NAME

SVS Imaging

REFERRING VET

Dr. Dolan

INVOICE

20940

DATE

9/8/21

PRESENTING CLINICAL SIGNS

History: Grade 2-3/6 heart murmur.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal LV wall thickness. Color flow is suggestive of a small left to right perimembranous VSD; however, this cannot be confirmed on 2D or Doppler imaging. Normal mitral valve. Normal LVOT velocity. The LA is normal in dimension. RA is normal. Normal tricuspid valve. No TR. Normal flow through the RVOT. PV appears normal. No PI. Normal RV wall thickness and dimension (subjective). MPA is normal. Aortic valve is normal. No AI. No obvious additional congenital defects. No effusions.

CARDIAC CHART

| FELINE CARDIAC PARAMETERS | BODY WEIGHT (kg) | HR (BPM) | IVSd (cm) (Moise, Pipers) | LVIDd (cm) (Moise, Pipers) | LVWd (cm) (Moise, Pipers) | FS (%) | EF (%) |
|---------------------------|------------------|---------------------------------|--|----------------------------|---------------------------|----------------|-------------|
| NORMAL PARAMETER | ----- | 150-240 | 0.35-0.55 | <2 (mean 1.5) | 3.5-0.55 | 35-67 | 80-100 |
| PATIENT | 2.3 | 218 | 0.42 | 0.9 | 0.38 | 54 | 88 |
| FELINE CARDIAC PARAMETERS | LA/AO (Boon) | LA/AO HEART BASE (Swe) (Abbott) | LA 2D short axis Base view (cm) (Abbott) | | LVOT VEL (m/s) | RVOT VEL (m/s) | E max (m/s) |
| NORMAL | <1.5 | <1.3 | <1.2 | | <1.6 | <1.3 | <0.9 |
| PATIENT | 1.6 | 1.1 | 0.9 | | 1.3 | 1.1 | NM |

**Note: All measurements based upon multi-modal images and methods. An average value is reported.*
Adapted from June Boon, Veterinary Echocardiography, 1998
Abbott J & MacLean H JVIM 2006;20: 111-119, Moise et al. Am J Vet Res 47:1476, 1986. Pipers et al. Am J Vet Res 40:882, 1979.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The suspected diagnosis is a small perimembranous ventricular septal defect (VSD); however, this is not considered a completely diagnostic study. The Doppler flows are not sufficient to be conclusive, assess directionality, etc. Despite this, color flow is suggestive, and the size and function of the heart appear largely normal indicating reasonable compensation at this time. No medications are indicated at this time.

Assuming a simple perimembranous VSD is confirmed, and no other issues identified, the prognosis is open as many cats can live a relatively normal life free of medications. Serial monitoring should be advised for progression regardless.

Anesthetic risk is low, however mild IV fluid restriction is advised.

PLAN

Consider referral for advanced echocardiography. If declined, recommend reassess in 6-8 months to screen for progression and reassess diagnosis.



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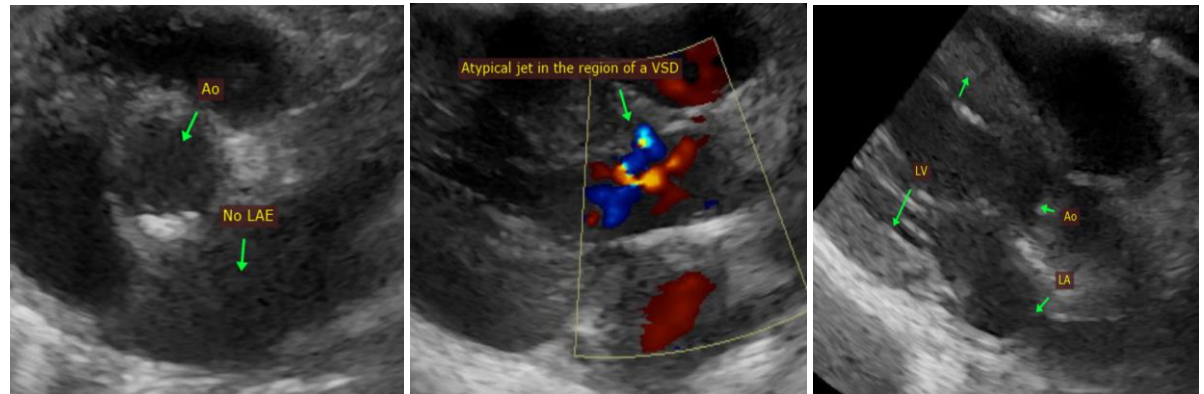
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IMAGES



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.

Maggie Machen Lamy, DVM
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