

PATIENT

Kitty Colbert

SPECIES

Feline

BREED

DSH

SEX

Female Spayed

AGE

12.6.11

WEIGHT

13lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

HOSPITAL NAME

North Laurel Animal
Hospital

REFERRING VET

Dr. Cohn

INVOICE

23674

DATE

4.14.22

PRESENTING CLINICAL SIGNS

History: Pre-op ECG showed VPCs. Heart rate was 240bpm with a grade 1/6 heart murmur.
-Pertinent abnormal PE/Chem/CBC/UA Results: All WNL. ProBNP normal.
-Current medications: None.
-Sedation used: Not required to complete full diagnostic ultrasound.
-Pertinent previous ultrasound results: No previous.
-STAT: Not requested
-Imaging performed by: Stephanie Pearce RDCS, RVT.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall thickness is largely normal with a focal septal thickening. There is a diffusely hyperechoic endocardium consistent with fibrosis and ventricular remodeling. The left ventricular chamber is normal in dimension. The papillary muscles appear remodeled as well. The left atrium is normal in size. The right atrium is mildly enlarged. Mild tricuspid regurgitation identified. Normal velocity. The right ventricle appears normal. The mitral valve is normal in structure and mobility. There is no mitral regurgitation present. Blood flow through both the LVOT and RVOT are normal in velocity. No effusions or cardiac tumors are evident.

CARDIAC CHART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) <small>(Moise, Pipers)</small>	LVIDd (cm) <small>(Moise, Pipers)</small>	LWVd (cm) <small>(Moise, Pipers)</small>	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	3.5-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	5.9	NM	0.72	1.7	0.51	58	90
FELINE CARDIAC PARAMETERS	LA/AO <small>(Boon)</small>	LA/AO HEART BASE (Swe) <small>(Abbott)</small>	LA 2D short axis Base view (cm) <small>(Abbott)</small>		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	NM	1.1	1.2		0.6	1.2	NM

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 murmur is due to mild tricuspid regurgitation which is causing mild right atrial dilation. There is also a significant amount of remodeling and fibrosis of the left ventricular wall with a focal septal bulge, which may be a normal variant or suggest early hypertrophic disease; follow up is advised. No additional issues are identified, and the LA is normal.

This study does not account for reported VPCs. Follow up and treatment should be dictated by the ECG report. What is seen here is mild and is unlikely to cause an arrhythmia and further systemic evaluation may be warranted.

No medications are indicated at this juncture as there is low risk for complication with minimal atrial dilation. Monitor in the future for respiratory compromise, syncope/lethargy, or signs of a blood clot (paralysis, lameness).

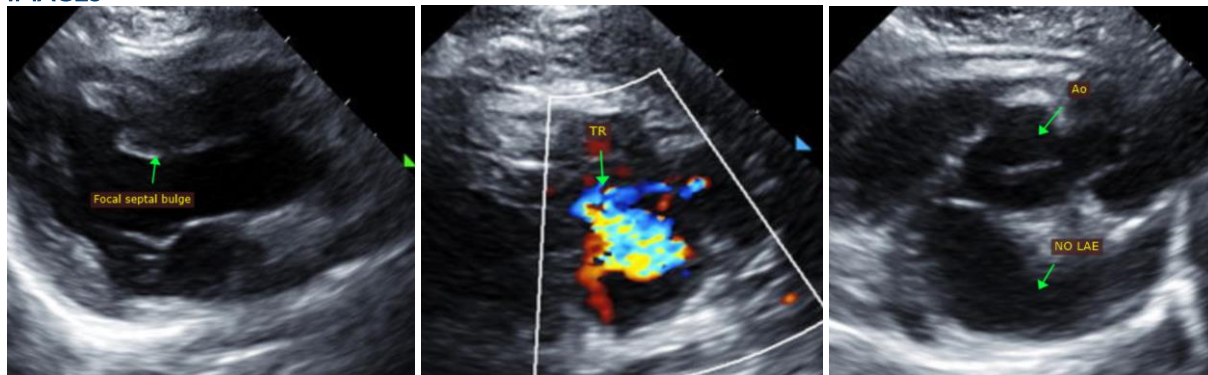
The cardiac risk for general anesthesia is mild, however heart rate stimulating drugs such as atropine, glycopyrrolate or ketamine should be avoided unless medically necessary. Even without significant pathology, with this degree of remodeling and diastolic stiffening there is elevated risk for fluid overload in this patient. **Judicious IV fluid use is recommended.**

PLAN

Baseline BP and T4 are recommended.

Recommend recheck echocardiogram in 6 months to assess for progression, sooner if any clinical signs develop in the interim.

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.

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