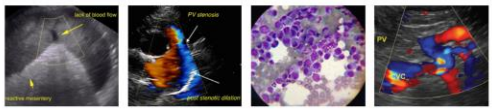
PAUS
Pet Animal Ultrasound Service
4paus.com 781-635-5677



SonoPath
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™
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PATIENT
Ellie Grossi

SPECIES
Feline

BREED
DSH

SEX
Female Spayed

AGE
9 years

WEIGHT
10lbs

INTERPRETED BY
Maggie Machen Lamy, DVM DACVIM (Cardiology)

IMAGING PERFORMED BY
Eduardo Rodriguez III, RCS

HOSPITAL NAME
Foster Veterinary Clinic

REFERRING VET
Dr. Hattan

INVOICE
26302

DATE
9/12/22

PRESENTING CLINICAL SIGNS

History: New asymptomatic grade I/VI holosystolic murmur. Cardio ProBNP 856. Current medications: Fluoxetine, gave Convenia injection 09/05/22.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and Doppler imaging is available.
Left ventricle: The LV diameter is normal with adequate myocardial function. The LV wall thicknesses are irregular with a focal septal thickening, contrasting a region of apical thinning. There is a diffusely hyperechoic endocardium consistent with fibrosis. The papillary muscles are mildly remodeled and hyperechoic.
Left atrium: The left atrium is normal. No obvious spontaneous contrast or thrombi seen.
Mitral valve: The mitral valve is normal in structure and mobility. No obvious systolic anterior motion is seen. No MR.
Aortic valve/Aorta: The aortic valve is mildly thickened. Normal aortic outflow velocity; laminar flow. Mild aortic insufficiency.
Right ventricle: Normal right ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension.
Right atrium: The right atrium is normal in dimension.
Tricuspid valve: The tricuspid valve appears normal with no 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.

2-Dimensional Measurements

Ao diam (cm)	1.0
LA diam (cm)	1.3
LA:Ao (Swe)	1.3
IVS thickness (cm)	0.7
LVID diastole (cm)	1.57
PW thickness (cm)	0.55
LVID systole (cm)	0.8
FS (%)	50

Doppler Measurements

PV Vmax (m/s)	0.9
AoV Vmax (m/s)	1.1
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

INTERPRETATION OF THE FINDINGS

Mild abnormalities are identified, including a focal septal thickening, which may reflect early hypertrophic disease or may simply be a normal variant. This is particularly notable in light of a region of apical thinning and certainly follow up is advised. The remainder of the LV measures borderline normal. No cause for the murmur is identified, making it likely physiologic in origin. Most importantly, the LA measures normal indicating low risk for complication at this time. Mild aortic insufficiency is identified, and a baseline BP is strongly recommended. No additional issues are noted.

Prognosis is guarded, due to the highly variable rates of progression with subclinical feline cardiomyopathy.

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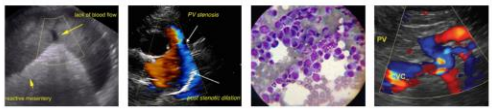

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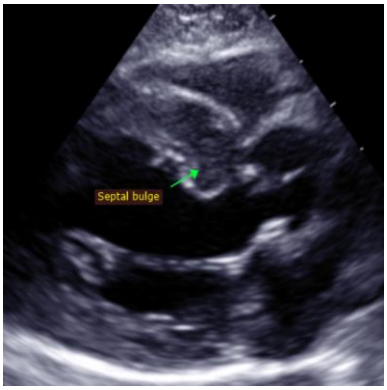
RECOMMENDATIONS

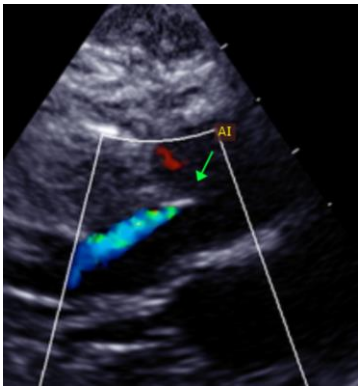
- Given these findings, no medications are indicated.
- Monitor BP and T4 every 6 months.
- Anesthetic risk is considered mild, however judicious IV fluid rates are advised to avoid fluid overload. Additionally, drugs that stimulate heart rate should be avoided unless clinically necessary (glycopyrrolate, atropine). A reasonable protocol includes opioid/benzodiazepine premedication, propofol induction, isoflurane maintenance.
- Risk for complication with steroid use typically follows LA dilation, which in this case is low. That being said, any cat can experience unexpected signs of intolerance and monitoring of RR/RE is advised particularly in the initiation phase.
- Monitor for any clinical evidence of cardiac compromise, including respiratory changes and/or signs of a blood clot event (paralysis, neurologic changes, etc.).

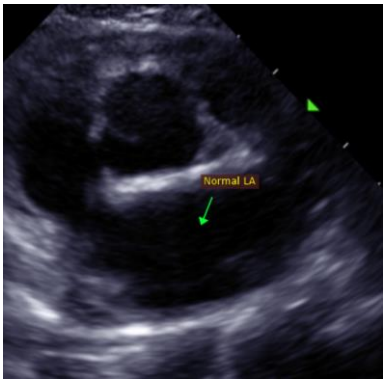
PLAN

- Recommend recheck echocardiogram in 6-12 months to screen for progression, sooner if any clinical signs arise 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.

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