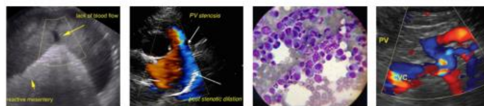

PATIENT
Jane Leecock

SPECIES
Feline

BREED
DSH

SEX
Female Spayed

AGE
8 years

WEIGHT
13.5lbs

INTERPRETED BY
Maggie Machen Lamy, DVM DACVIM (Cardiology)

IMAGING PERFORMED BY
Pamela Harrigan, RDCS

HOSPITAL NAME
VCA Palmer

REFERRING VET
Dr. Haroules

INVOICE
29118

DATE
2/20/23

PRESENTING CLINICAL SIGNS

History: Chronic hematuria, cystotomy 11/2022, ammonium urate stone. Early hyperthyroid. Cardiomegaly on radiographs, but no murmur. Bile acid test high- ro Portosystemic shunt. *Having bicavity ultrasounds. BP: 134, 140, 142mmHg.
-Abnormal PE/Chem/CBC/UA Results: BUN 12; free T4 51.5; bile acid test: pre 3.7; post 81.5
Free T4 history: Oct, 2022 74.1, Jan 2023 51.5.

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 borderline to mildly increased symmetrically. 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 normal in morphology and mobility. Normal aortic outflow velocity; laminar flow. Trace 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

Measurement	Value
Ao diam (cm)	1.1
LA diam (cm)	1.1
LA:Ao (Swe)	1.0
IVS thickness (cm)	0.67
LVID diastole (cm)	1.3
PW thickness (cm)	0.59
LVID systole (cm)	0.7
FS (%)	40

Doppler Measurements

Measurement	Value
PV Vmax (m/s)	0.76
AoV Vmax (m/s)	1.0
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

INTERPRETATION OF THE FINDINGS

HCM is a rule out diagnosis, once hypertension and hyperthyroid disease are ruled out. In this cat with early hyperthyroidism, this may be the simple explanation in this normotensive cat. Regardless, the degree of disease is mild, with minimal LVH and no LA dilation.

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

RECOMMENDATIONS

- Given these findings, no medications are indicated.
- Monitor BP and T4 every 6 months.

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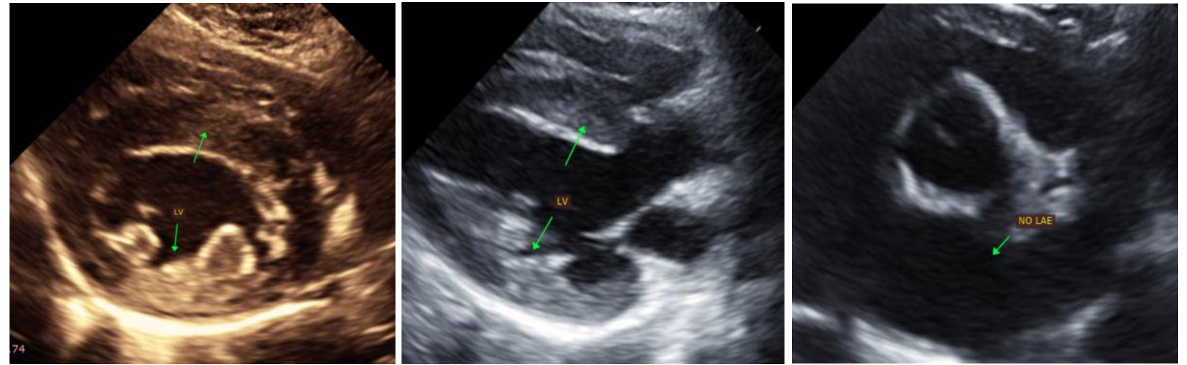
- Anesthetic risk is considered mild, however judicious IV fluid rates are advised to avoid fluid overload. Additionally, drugs that stimulate heart rate should be avoided unless clinically necessary (glycopyrrolate, atropine). A reasonable protocol includes opioid/benzodiazepine premedication, propofol 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

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