



PATIENT

Molson Cerutti

SPECIES

Feline

BREED

DLH

SEX

Male Neutered

AGE

14 years

WEIGHT

7.37lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Mark van Campen,
DVM

HOSPITAL NAME

Mississippi Mills
Animal Hospital

REFERRING VET

Dr. Van Campen

INVOICE

20542

DATE

8/13/21

PRESENTING CLINICAL SIGNS

History: Hyperthyroid. Chronic URTI. No heart murmur.

-Current medications: Methimazole and Azithromycin.

-Radiographs: Some heart enlargement.

-Abnormal PE/Chem/CBC/UA Results: ProBNP 150.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is borderline hypertrophied. There is a diffusely hyperechoic endocardium consistent with fibrosis and ventricular remodeling. Mild papillary muscle remodeling. The right ventricle is subjectively normal in size and morphology. There is no left atrial enlargement present. No right atrial enlargement present. Normal RVOT velocity. There is no obvious systolic anterior motion (SAM) of the mitral valve present, with a normal LVOT velocity. There is no mitral regurgitation present. No TR. No other obvious valvular regurgitation is present. There is no pericardial effusion noted. No pleural effusion appreciated.

CARDIAC CHART

| FELINE CARDIAC PARAMETERS | BODY WEIGHT (kg) | HR (BPM) | IVSd (cm) <small>(Moise, Pipers)</small> | LVIDd (cm) <small>(Moise, Pipers)</small> | LVWd (cm) <small>(Moise, Pipers)</small> | FS (%) | EF (%) |
|---|--------------------------------|---|---|--|---|-----------------------|--------------------|
| NORMAL PARAMETER | ----- | 150-240 | 0.35-0.55 | <2 (mean 1.5) | 3.5-0.55 | 35-67 | 80-100 |
| PATIENT | 3.3 | NM | 0.58 | 1.5 | 0.59 | 58 | 90 |
| FELINE CARDIAC PARAMETERS | LA/AO <small>(Boon)</small> | LA/AO HEART BASE <small>(Swe) (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 | 1.2 | 1.0 | | 0.8 | 0.8 | NM |
| <p><i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i></p> <p>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.</p> | | | | | | | |

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Borderline LV hypertrophy is present, which may be indicative of early cardiac disease or may simply represent a normal variant in this older hyperthyroid cat. A screening BP is recommended as hypertension can also lead to LV changes (particularly given elevated renal values). Regardless, the LA remains normal which would indicate clinical stability. Serial echocardiography will be necessary to determine progression. Given these findings, no medications are indicated.

With a normal LA dimension, there is low risk for anesthetic complication at this time. However, any cat with this degree of fibrosis and diastolic dysfunction will be at risk for iatrogenic IV fluid



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overload and judicious rates are recommended. Avoid heart rate stimulating drugs unless indicated. A reasonable protocol includes opioid/benzodiazepine premedication, propofol induction, isoflurane maintenance.

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Monitor for any development of clinical signs, including labored breathing or signs of a blood clot (paralysis, neurologic change).

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A recheck echocardiogram is recommended in 6-12 months to screen for any evidence of progression.

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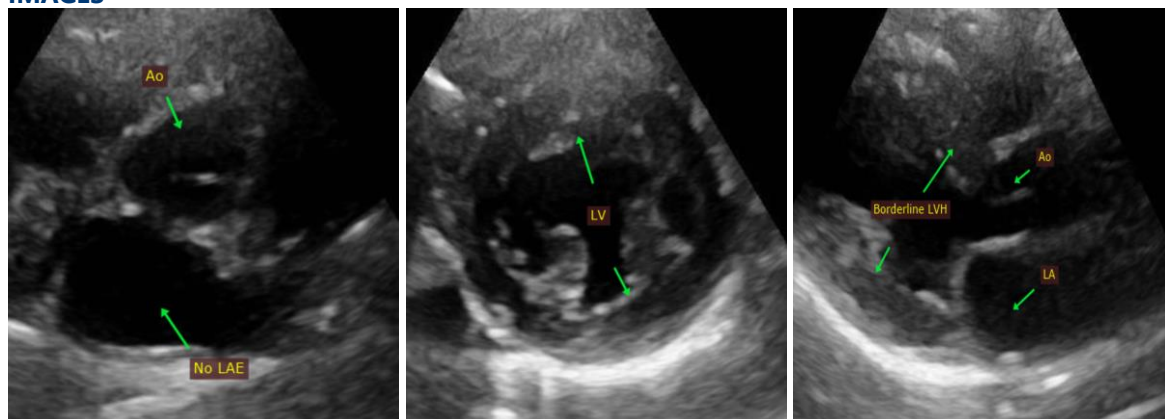
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IMAGES



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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.

IMAGING PERFORMED BY

Mark van Campen,
DVM

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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Mississippi Mills
Animal Hospital

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