



PATIENT

Missy Mandeville

SPECIES

Feline

BREED

DLH

SEX

Female Spayed

AGE

14 years

WEIGHT

6.8lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Loetitia Saint-Jacques,
LVT

HOSPITAL NAME

Brighton Greens
Veterinary Hospital

REFERRING VET

Dr. Murphy

INVOICE

47727

DATE

4/29/26

PRESENTING CLINICAL SIGNS

History: No vet history for 12 years. Stopped eating on Wednesday of last week. Lethargic and unable to get up and walk to litter box anymore. Unsure if got into anything. No heart murmur or arrhythmia present. Radiographs revealed equivocal mild generalized cardiomegaly. Otherwise, unremarkable thorax. No definitive evidence of pulmonary metastasis. Pro BNP abnormal. Admin Pantoprazole 4 mg/ml 0.72 ml (2.9 mg) IV slow @ 9:05 am Cerenia 10 mg/ml 0.29 ml (2.9 mg) IV @ 9:08 am Unasyn 375 mg/ml 0.11 ml (43 mg) IV slow @ 9:10 am Mirtazapine 1 1/2" ribbon to the left pinna Syringe fed A/D 12 mls po Offered canned A/d and water Continue fluids at 10 mls/hr
-Abnormal PE/Chem/CBC/UA Results: T4 WNL, BUN 39 (14-36), BUN/CR ratio 43 (4-33), Ca+ 8 (8.2-10.8), Mg 3.3 (1.5-2.5), Na/K ratio 31 (32-41), amylase 1303 (100-1200), PSL 30 (8-26), WBC 24.4K, PMNS 22.5K ((2500-8500)), HCT 28% (>29), lymphocytes 976K (2k-8.5K), UA USG 1.056, pH 6.0, 3+ proteinuria, UPCR 0.9 (<2)

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is mildly increased in dimension. The LV is normal in dimension. There is a mildly hyperechoic endocardium consistent with fibrosis. The papillary muscles are remodeled with regions of atrophy. The left atrium is moderately dilated and bulbous in appearance. No obvious smoke. The right atrium is moderate to severely dilated. The right ventricle appears prominent. The mitral valve is mildly thickened with no MR. The TV is thickened with moderate TR; normal velocity. The aortic valve is mildly asymmetrically thickened. No AI. Blood flow through both the LVOT and RVOT is normal in velocity. No pericardial or pleural effusion. No obvious cardiac tumors.

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	3.1	NM	0.65	1.1	0.66	48	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 <small>(m/s)</small>	RVOT VEL <small>(m/s)</small>	E max <small>(m/s)</small>	
NORMAL	<1.5	<1.3	<1.2	<1.6	<1.3	<0.9	
PATIENT	2.2	1.8	1.6	0.9	0.8	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

Hypertrophic cardiomyopathy (HCM) is a rule out diagnosis once hypertension and hyperthyroidism are considered. Both should be evaluated for in this case. Regardless, what is



PATIENT

Missy Mandeville

SPECIES

Feline

BREED

DLH

SEX

Female Spayed

AGE

14 years

WEIGHT

6.8lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Loetitia Saint-Jacques,
LVT

HOSPITAL NAME

Brighton Greens
Veterinary Hospital

REFERRING VET

Dr. Murphy

INVOICE

47727

DATE

4/29/26

seen here is significant with mild LV hypertrophy and moderate biatrial enlargement. Moderate TR with valve thickening may reflect a concurrent valvular issue; however, given that pulmonary pressures are normal this is of unknown significance. No additional structural issues are seen.

Regardless of categorical classification, the finding of this degree of atrial dilation puts the patient at high risk for spontaneous congestive heart failure, and medications should be considered as below. The patient has nonspecific clinical signs; however, no CHF was noted on the films making this unlikely and Lasix is not clearly necessary. Further systemic evaluation/treatment may be indicated.

The mean survival time for cats with severe disease is < 1 year; however, most are able to maintain a good quality of life on medications. There will always remain risk for recurrent episodes of CHF, development of blood clots and/or malignant arrhythmias/sudden death in the future. Monitoring of sleeping breathing rates at home is recommended as the best way to screen for recurrent CHF at home.

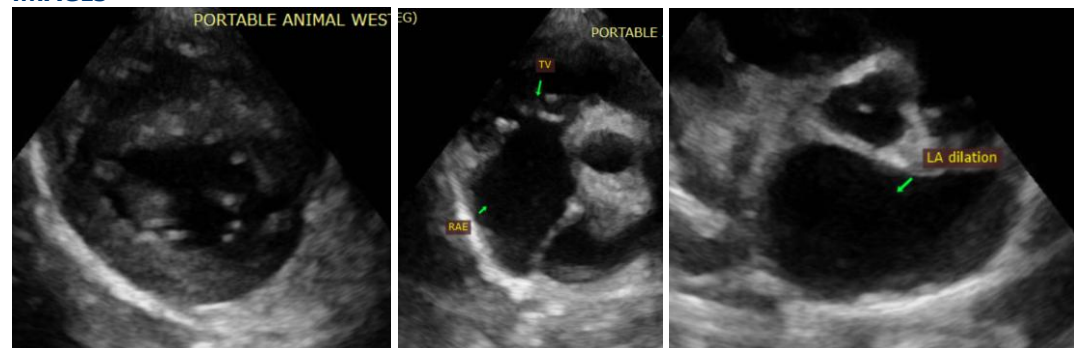
PLAN

Further systemic evaluation and treatment is likely warranted. No indication to Lasix therapy prior to clinical signs consistent with CHF. If any change in RR/RE develops institute Lasix 1-2mg/kg PO q12h.

If able, institute blood thinner Clopidogrel (Plavix) 75mg tabs; Give ¼ tab by mouth every 24 hours (NOTE: bitter along cut edge, may cause foaming at the mouth; coat in entirety). Once doing well on these medications, normotensive and eating well at home, institute vasodilator ACE-I (benazepril or enalapril) 0.5mg/kg PO q12h.

A recheck echocardiogram is recommended in 6 months to assess progression.

IMAGES



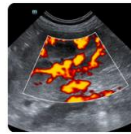
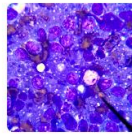
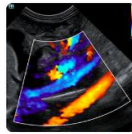
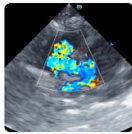
The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Imaging
performed by



Pawsonography, Inc.
pawsonography@gmail.com
530-786-8340



Clinical Sonography & Telectology
Educational Teleconsultation Services™

SonoPath

FOSTERING THE ART OF VETERINARY MEDICINE™

SonoPath.com  info@sonopath.com  1.800.838.4268

PATIENT

or if I can be of any further assistance, please contact me.

Missy Mandeville

SPECIES

Feline

BREED

DLH

SEX

Female Spayed

AGE

14 years

WEIGHT

6.8lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

**IMAGING
PERFORMED BY**

Loetitia Saint-Jacques,
LVT

HOSPITAL NAME

Brighton Greens
Veterinary Hospital

REFERRING VET

Dr. Murphy

INVOICE

47727

DATE

4/29/26

Maggie Machen Lamy, DVM

Diplomate of the American College of Veterinary Internal Medicine (Cardiology)

info@sonopath.com