



PATIENT

Meow Meow Sanders

SPECIES

Feline

BREED

DSH

SEX

Male Neutered

AGE

14 years

WEIGHT

10.8lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Karen Ebersole,
DVM, DABVP

PRESENTING CLINICAL SIGNS

History: Increased respiratory effort noted. On Fluoxetine and Gabapentin for inappropriate urination. Solensia injections for DJD. Sedated with Butorphanol and Midazolam IM. No murmur. BP (with Butorphanol/Midazolam sedation): 140/98 and 160/72.

-Abnormal PE/Chem/CBC/UA Results: ProBNP 108. T-4: 2.2. SDMA 17

-Radiographs: Mild bronchial pattern.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is largely normal with a borderline septal dimension. There is a diffusely hyperechoic endocardium consistent with mild fibrosis. The papillary muscles are mildly remodeled. The left atrium is normal in size. The right atrium is normal in size. The right ventricle appears normal. The mitral valve is normal in structure and mobility. Blood flow through both the LVOT and RVOT is normal in velocity. No AI or PI. No pleural or pericardial effusion seen. 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>	LWVd (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	4.9	167	0.55	1.16	0.51	60	92
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	1.4	1.2	1.2	0.96	0.8	NM	
<p><i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i> 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>							

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Sanders

INVOICE

29581

DATE

3/14/23

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overtly normal cardiac structure and function with no evidence of significant LVH or atrial dilation. The septum measures borderline with fibrosis of LV wall, which is likely a normal variant in this senior cat. Monitoring is advised, particularly if symptoms or PE is suggestive of heart disease in the future (murmur, gallop, etc.). No additional issues are identified and the LA is normal suggesting low risk for complication.

Given today's findings, **the reported respiratory changes are certainly noncardiac in origin** and primary respiratory disease is considered more likely. A course of azithromycin is often beneficial to treat any acute infectious causes. No contra-indication to steroid or fluid therapy from a cardiac standpoint should it be indicated, however use of both in cats should be limited and closely monitored.



PATIENT

No cardiac medications are indicated.

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Recheck echocardiogram in 12 months, sooner should a murmur or gallop develop, or clinical signs of cardiac compromise develop (dyspnea/tachypnea, signs of a blood clot event).

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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.

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
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