



## PATIENT

Romeo Twombly

## SPECIES

Feline

## BREED

DSH

## SEX

MN

## AGE

11yr

## WEIGHT

20lb

## PRESENTING CLINICAL SIGNS

Open mouth breathing with neck extended for 1 month.

Abnormal PE/Chem/CBC/UA Results: BW: TCO2 25 H, proBNP 1,500, T-4 6.9 RADS (attached): cardiomegaly with increased sternal contact on lateral and valentine shaped heart on VD.

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT		NM	0.61	1.55	0.60	38.7	72.4
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	2.5	2.26	2.3		1.0		
Adapted from June Boon, Veterinary Echocardiography, 1998							
Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

## INTERPRETED BY

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

## IMAGING PERFORMED BY

Dr. Ebersole

## HOSPITAL NAME

Scanvet

## REFERRING VET

Dr. McGarvey

## INVOICE

11573ag

## DATE

09/09/2022

## Cardiac Presentation

The left ventricular wall exhibited borderline to mild increased dimension to thickening. Diffuse mildly hyperechoic endocardium potentially indicative of fibrosis was present. Prominent to remodeled papillary muscles were present exhibiting mild hypertrophy. Some degree of LV myocardial remodeling was present. The left atrium was moderately dilated in size with a mild bulbous appearance. No spontaneous contrast was visualized. The RA was normal in size and the RV appeared normal. The mitral valve was overtly normal in structure and mobility. Mild eccentric MR was present on Doppler. Mildly turbulent to dynamic blood flow through the LVOT was present with normal laminar flow through the RVOT. No obvious TR was present. No pericardial effusion or overt pleural effusion was noted. No obvious cardiac tumors were noted. Subjective adequate LV function was present.

## ULTRASONOGRAPHIC FINDINGS

### Primary

- Borderline to mild thickened LV exhibiting evidence of myocardial remodeling
- Mildly hypertrophied to remodeled papillary muscles
- Moderate left atrium enlargement without evidence of spontaneous contrast

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cardiac presentation is suggestive of HCM criteria in conjunction with elevated T4 levels, however this is a rule out diagnosis once the patient is euthyroid and normotensive. The patient is likely in



**PATIENT**

Romeo Twombly

congestive heart failure as a primary contributing factor to the reported open-mouthed breathing. Potential for previous thromboembolic event given the degree of LA enlargement cannot be definitively excluded. This patient will be at high risk for developing CHF, malignant arrhythmia and thromboembolic events.

**SPECIES**

Feline

Diuretic therapy either injectable until patient is stabilized or oral 1-2 mg/kg PO BID along with Plavix 75 mg tab ¼ tab PO SID with Pimobendan 1.25 mg PO BID indicated if recurrent episodes of CHF, however LV function appears to be adequate at this stage. Monitoring of BP, renal values and ECG is advised. A guarded long term prognosis pending therapy for hyperthyroidism.

**BREED**

DSH

**SEX**

MN

**AGE**

11yr

**WEIGHT**

20lb

**INTERPRETED BY**

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

**IMAGING PERFORMED BY**

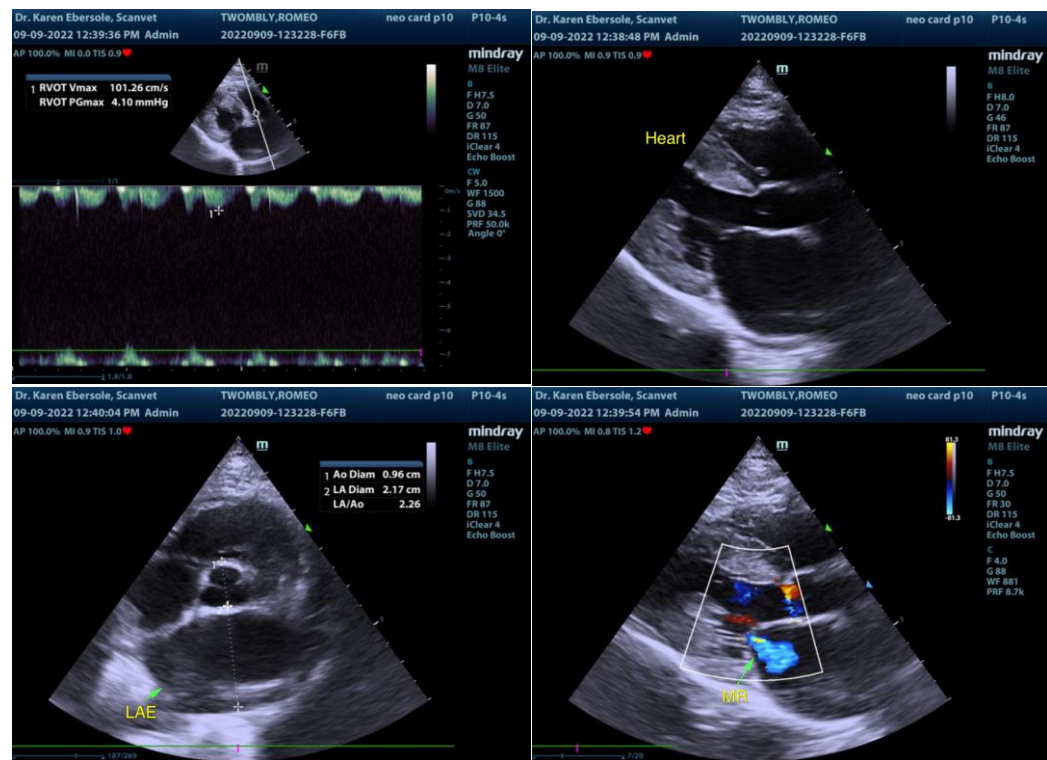
Dr. Ebersole

**HOSPITAL NAME**

Scanvet

**REFERRING VET**

Dr. McGarvey



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

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@SonoPath.com

**INVOICE**

11573ag

**DATE**

09/09/2022