



## PATIENT PRESENTING CLINICAL SIGNS

Chico Passano Elevation in BNP (4499). Current meds: Clindamycin drops 25mgs/ml - 1.5 mls PO SID x 20.  
Abnormal PE/Chem/CBC/UA Results: CBC/Chem: WNL.

## SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

### BREED

Maltese

### SEX

Neutered Male

### AGE

10 Years

### WEIGHT

11 Pounds

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	5.7	1.0	1.6	1.7	39.2	71.5	0.2
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LA 2D short axis Base view (cm)	LVIDd Avg; 2D and m-mode short axis (cm)	LVIDs Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	115	1.3	0.8		3.3	2.8	

### Cardiac Presentation

### INTERPRETED BY

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

### IMAGING PERFORMED BY

Kelly Vazquez

### HOSPITAL NAME

Pompton Lakes AH

### REFERRING VET

Dr. Cattiny

### INVOICE

25724

### DATE

9/22/21

### ULTRASONOGRAPHIC FINDINGS

- Chronic mitral valve disease (ACVIM B2)
- Trace tricuspid valve insufficiency

The echocardiogram for this patient presented mild to moderately excessive **left atrial size** expressed both in the LA/AO and LA max measurements. Subtle deviation of the intraatrial septum towards the right atrium, indicative of mild increased left atrial pressure was present. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler revealed eccentric mitral valve insufficiency. The **left ventricle** presented normal thicknesses with linear contour with mild increased left ventricular volume. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. Color doppler revealed trace tricuspid valve insufficiency. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.



**PATIENT**

Chico Passano

**SPECIES**

Canine

**BREED**

Maltese

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

11 Pounds

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Pompton Lakes AH

**REFERRING VET**

Dr. Cattiny

**INVOICE**

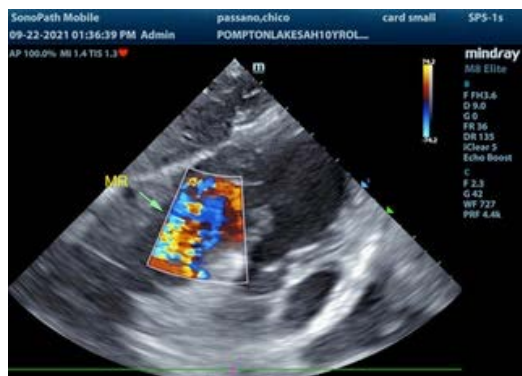
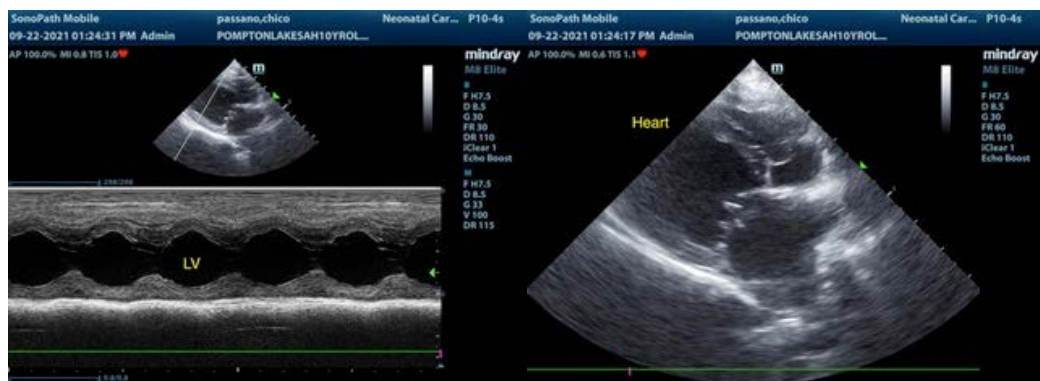
25724

**DATE**

9/22/21

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The cause of the murmur in this patient is secondary to chronic degenerative valvular changes with secondary eccentric mitral valve insufficiency. No other clinical issues such as systolic dysfunction or clinical pulmonary hypertension noted. The increased left atrial size as well as mild increased left ventricular volume indicate that the risk of future complication is elevated, although prognosis at this stage is highly variable. Given these findings, Pimobendan at 0.3 mg/kg PO BID is recommended. Baseline monitoring of resting respiration rate suggested. Serial sonographic monitoring is needed to determine prognosis. Recheck echocardiogram suggested in 6 months, sooner if clinical signs consistent with heart disease develop.





**PATIENT**

Chico Passano

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.

**SPECIES**

Canine

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

**BREED**

Maltese

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

11 Pounds

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Pompton Lakes AH

**REFERRING VET**

Dr. Cattiny

**INVOICE**

25724

**DATE**

9/22/21