



PATIENT

Lucy Carbonelli

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

FS

AGE

15 years

WEIGHT

8.5 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Diane McFadden

HOSPITAL NAME

Animal Care Centers
of Flanders

REFERRING VET

Dr. Hallihan

INVOICE

14810

DATE

8/15/23

PRESENTING CLINICAL SIGNS

Apex murmur 2/6 systolic; previous echo Dec 2022; On lomotil x 1 tab q 8-12 hrs prn, pimobendan 1.25mg bid

Abnormal PE/Chem/CBC/UA Results: n/a

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC PARAMETERS	VMAX (m/s)	VMAX (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
PATIENT	5.5		1.7	2.2	47	80.4	0.28
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC PARAMETERS	(BPM)	VMAX (m/s)	MAX (m/s)	(kg)	2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	126	1.0	0.8		2.9	2.5	

Cardiac Presentation

The echocardiogram in this patient demonstrated mild to moderately increased **left atrial** dimension based on 3 different LA measurement methods. The cranial and caudal **mitral** valve leaflets presented moderate thickening consistent with endocardiosis. Doppler indicated measurable mild eccentric insufficiency. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. 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 revealed mild thickening with minor TR on Doppler. 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

Lucy Carbonelli

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

FS

AGE

15 years

WEIGHT

8.5 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Diane McFadden

HOSPITAL NAME

Animal Care Centers
of Flanders

REFERRING VET

Dr. Hallihan

INVOICE

14810

DATE

8/15/23

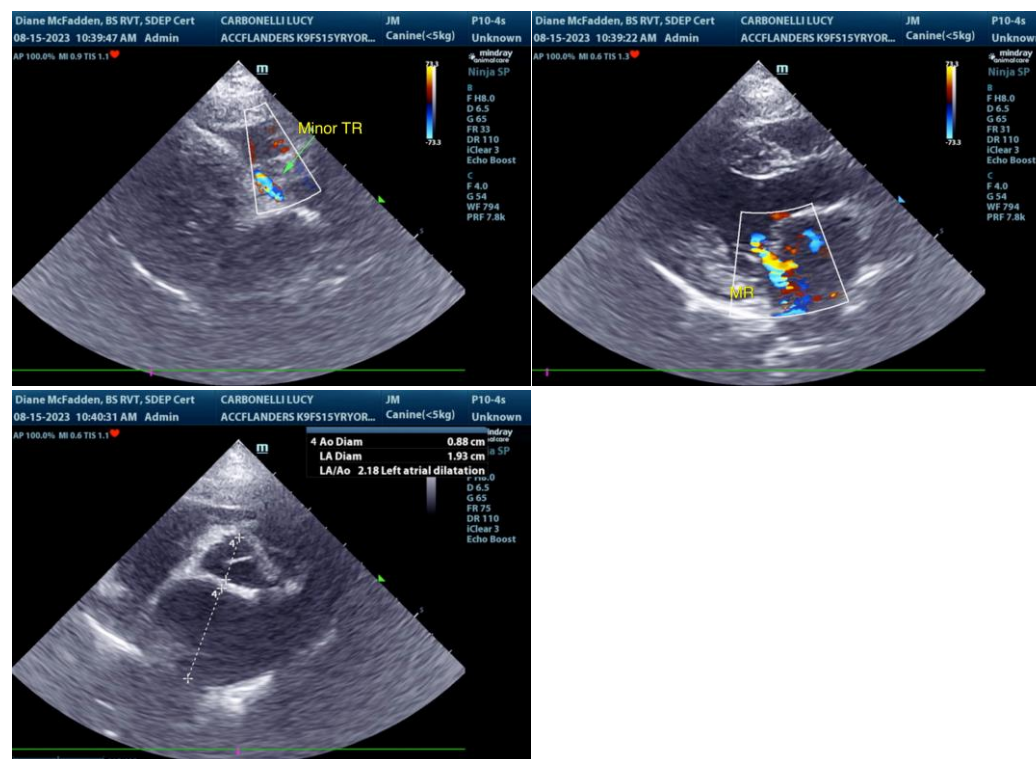
ULTRASONOGRAPHIC FINDINGS

- Chronic mitral valve disease (ADVIM mild B2)
- Minor TR - no evidence of clinical pulmonary hypertension

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The echocardiogram exhibits mild progression compared to the previous study as indicated by increased LA/AO heart base measurement and mild progressive LV enlargement. Overall, the heart appears to be stable with clinical signs not anticipated.

Given this presentation, continued Pimobendan 0.3 mg/kg PO BID is warranted. There is no other overt indication for additional cardiac medications. Baseline monitoring of resting respiration rate going forward is suggested. Omega Fatty Acids supplementation and mild salt restriction may prove beneficial. Prognosis remains highly variable and serial sonographic monitoring is suggested. Recheck echocardiogram is recommended in 6 months, sooner if clinical signs arise.



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.



PATIENT

Lucy Carbonelli

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

FS

AGE

15 years

WEIGHT

8.5 lbs.

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Diane McFadden

HOSPITAL NAME

Animal Care Centers
of Flanders

REFERRING VET

Dr. Hallihan

INVOICE

14810

DATE

8/15/23