



PATIENT

Gracie Bronconnier

SPECIES

Canine

BREED

Maltese Mix

SEX

F/S

AGE

14 years

WEIGHT

4.5 kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dave Stasiuk RDMS,
RDCE

HOSPITAL NAME

Glamorgan AC

REFERRING VET

Glamorgan AC

INVOICE

17136

DATE

6/21/23

PRESENTING CLINICAL SIGNS

Murmur heard. Pre anesthesia for dental next on Tuesday, June 27.

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		<2.0		1.2	53	86	0.2
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	NM	1.3	0.92		2.7	2.3	

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 2 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented moderate thickening (anterior > posterior) consistent with endocardiosis. Mild prolapse of the septal leaflet was present. Doppler indicated moderate eccentric insufficiency. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented mild nonuniform echogenicity consistent with mild age-related myocardial remodeling without 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. Normal measured LVOT velocity was noted. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated mild thickening with mild 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). Normal measured RVOT velocity was noted. 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

Gracie Bronconnier

SPECIES

Canine

BREED

Maltese Mix

SEX

F/S

AGE

14 years

WEIGHT

4.5 kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dave Stasiuk RDMS,
RDCS

HOSPITAL NAME

Glamorgan AC

REFERRING VET

Glamorgan AC

INVOICE

17136

DATE

6/21/23

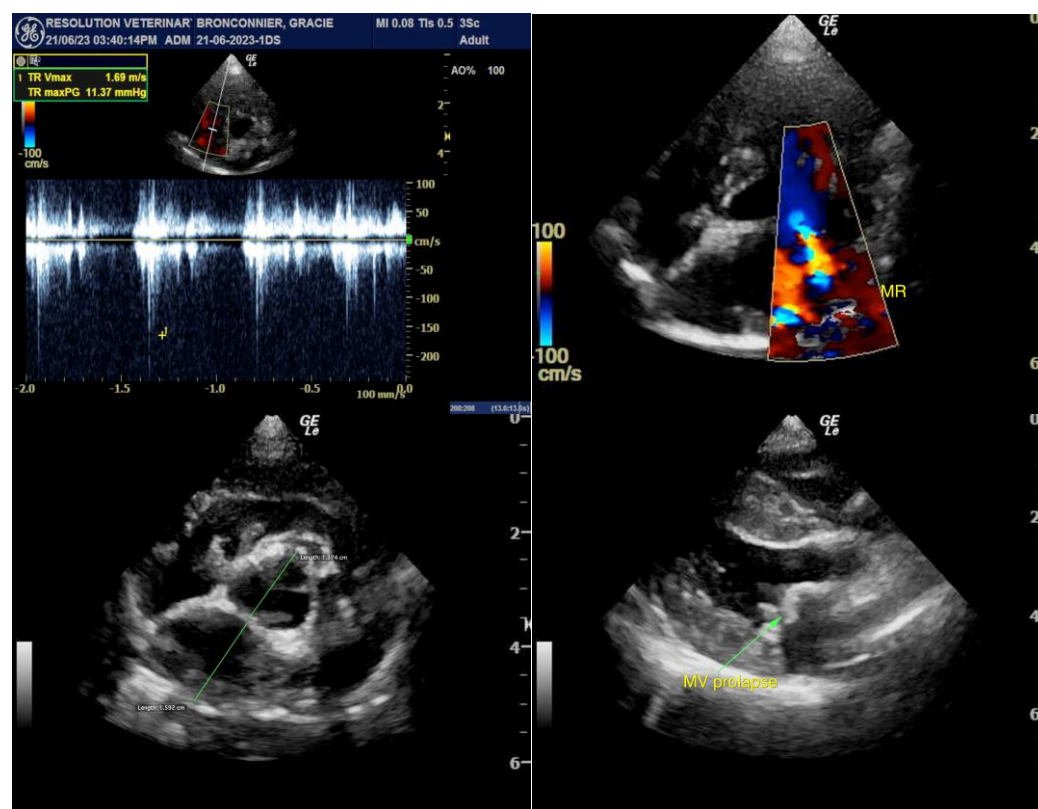
ULTRASONOGRAPHIC FINDINGS

- Compensated chronic mitral valve disease (ACVIM B1) with mild mitral valve prolapse
- Mild TR - no evidence of clinical pulmonary hypertension

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cause of the murmur is chronic degenerative valvular changes with secondary primary eccentric MR and mild TR. The lack of left atrium enlargement indicates that the current and future risk of complications secondary to MR is low. In a nonclinical patient without evidence of chamber enlargement, no indication for cardiac medications. Prognosis is considered variable and serial sonographic monitoring is recommended. Recheck echocardiogram is recommended in 6 months, sooner if clinical signs arise. No anesthetic contraindications. The following anesthetic protocol is suggested.

Suggested anesthetic protocol may include opioid or Benzodiazepine pre-med, induction with Propofol or Alfaxalone, and appropriate gas anesthesia with avoidance of alpha 2 agonists.





PATIENT

Gracie Bronconnier

SPECIES

Canine

BREED

Maltese Mix

SEX

F/S

AGE

14 years

WEIGHT

4.5 kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dave Stasiuk RDMS,
RDMS

HOSPITAL NAME

Glamorgan AC

REFERRING VET

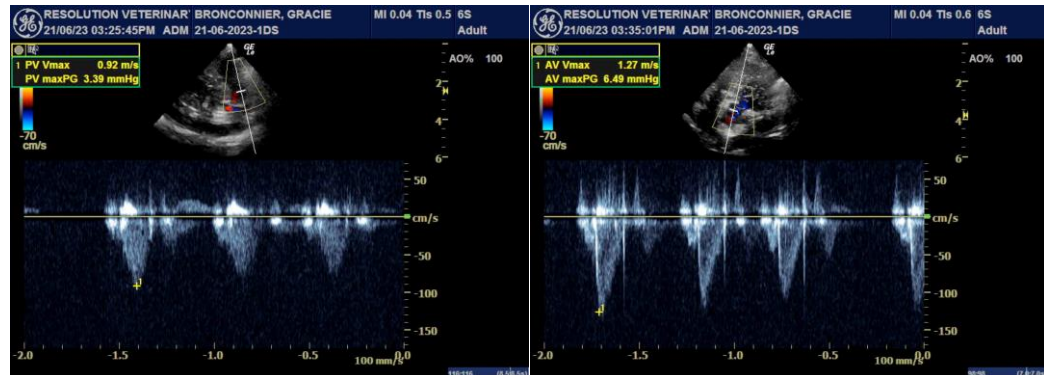
Glamorgan AC

INVOICE

17136

DATE

6/21/23



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