



PATIENT PRESENTING CLINICAL SIGNS

Sophie Brodie History: Presented for pre-op for dentistry - has many epulides, 1+ extractions to remove. Detected Gr II/VI HMR PMI left base on exam - new finding. Fed Purina brand kibble.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

Boxer

SEX

Spayed Female

AGE

9 Years

WEIGHT

28.9 kg

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	--	--	NM	1.38	43.2	77.7	0.35
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	118	2.0	1.4	--	3.5	3.87	--

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Reschny

HOSPITAL NAME

Graham AH

REFERRING VET

Dr. Seager

INVOICE

13386

DATE

1/12/22

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. 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 mild dynamic systolic flow yet subjectively normal structural integrity, borderline elevated LVOT velocity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** 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. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window. No evidence of arrhythmogenic disease.

ULTRASONOGRAPHIC FINDINGS

- Overtly normal cardiac structure and function
- Borderline elevated LVOT velocity



PATIENT

Sophie Brodie

SPECIES

Canine

BREED

Boxer

SEX

Spayed Female

AGE

9 Years

WEIGHT

28.9 kg

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Kelly Reschny

HOSPITAL NAME

Graham AH

REFERRING VET

Dr. Seager

INVOICE

13386

DATE

1/12/22

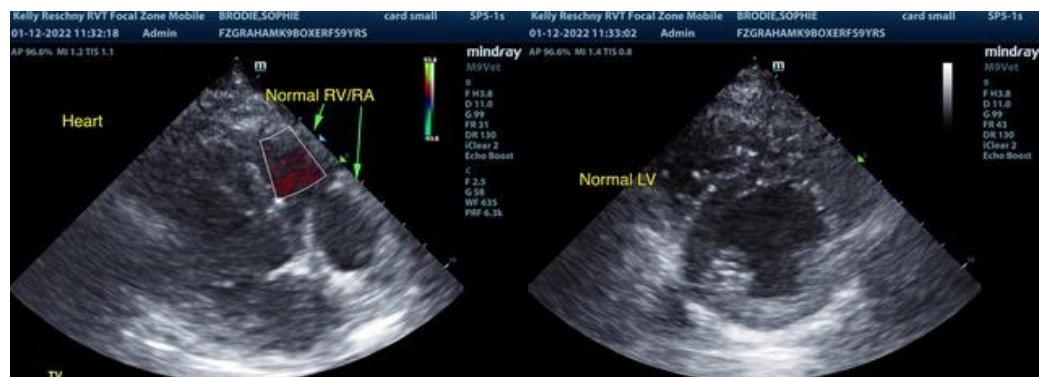
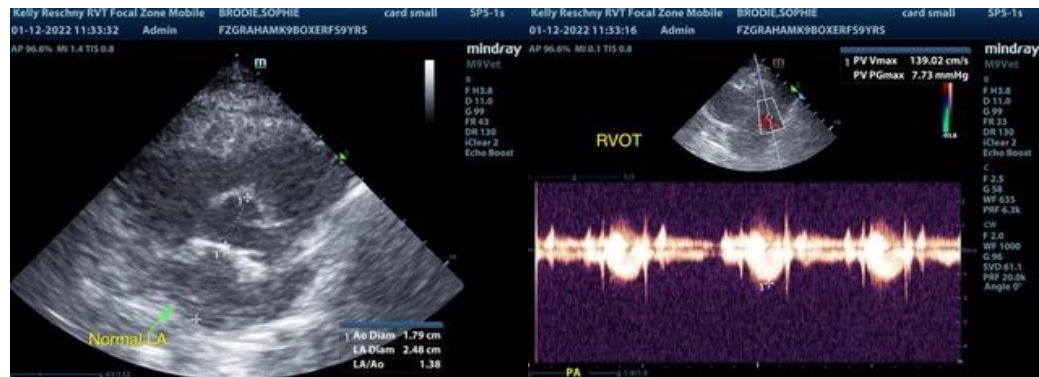
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of structural or functional cardiomyopathy. The only potential source of the low-grade murmur was the borderline elevated LVOT velocity. This was not overtly consistent with aortic valve stenosis/subaortic stenosis and essentially equates to a likely flow murmur. No evidence of left ventricular cardiomyopathy, systolic dysfunction or evidence of significant valvular insufficiencies. Normal overall cardiac function without evidence of left or right heart chamber enlargement indicated that any potential risk associated with the low-grade murmur is low. No indication for cardiac medications nor evidence for anesthetic contraindications. Assuming normal ECG (in light of breed), the following anesthetic protocol may be considered:

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.

<https://www.antechdiagnostics.com/cadet-braf>

Conservative monitoring of the murmur would be appropriate at this time. Recheck echocardiogram suggested in 6 months or sooner if murmur intensity progresses.





PATIENT

Sophie Brodie

SPECIES

Canine

BREED

Boxer

SEX

Spayed Female

AGE

9 Years

WEIGHT

28.9 kg

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Kelly Reschny

HOSPITAL NAME

Graham AH

REFERRING VET

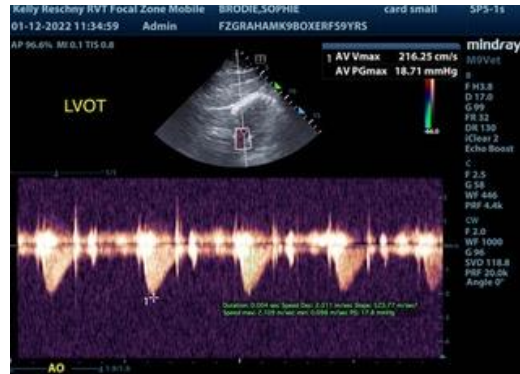
Dr. Seager

INVOICE

13386

DATE

1/12/22



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. 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