



PATIENT PRESENTING CLINICAL SIGNS

Caillou Brumfield Pre-anesthetic echo for dental. Heart murmur, O reports coughing. Rads: Heart round, cardiomegaly.
 Current meds: Levothyroxine
 Abnormal PE/Chem/CBC/UA Results: USG 1.041

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED	CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
Papillon								
SEX	NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
Neutered Male	PATIENT	5.6	1.7	1.31	1.35	53.3	85.9	0.22
AGE	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)
10 Years								
WEIGHT	NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
10.5 Pounds	PATIENT	134	1.2	0.87		2.6	2.6	

INTERPRETED BY Cardiac Presentation

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

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated measurable 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 demonstrated adequate linear morphology. Minor tricuspid valve insufficiency present on color flow 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.

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Parsippany Troy Hills

REFERRING VET

Dr. Dulude

INVOICE

33528

- Chronic mitral valve disease (ACVIM B1)
- Minor tricuspid valve insufficiency – estimated pulmonary pressure gradient not consistent with clinical pulmonary hypertension.

DATE

12/17/21



PATIENT

Caillou Brumfield

SPECIES

Canine

BREED

Papillon

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cause of the murmur is chronic degenerative valvular changes with secondary eccentric mitral valve insufficiency. The lack of left atrial enlargement implies that the risk of complication secondary to mitral valve insufficiency is low at this time and, without current clinical signs, indicates that medical therapy is not required. However, prognosis at this stage is highly variable, and periodic sonographic monitoring is recommended for further prognosis. Conservative monitoring is recommended with a recheck echocardiogram in 6-12 months, sooner if clinical signs suggestive of heart disease develop. No anesthetic contraindications. Judicious IV fluid use under anesthesia is advised. 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.

SEX

Neutered Male

AGE

10 Years

WEIGHT

10.5 Pounds

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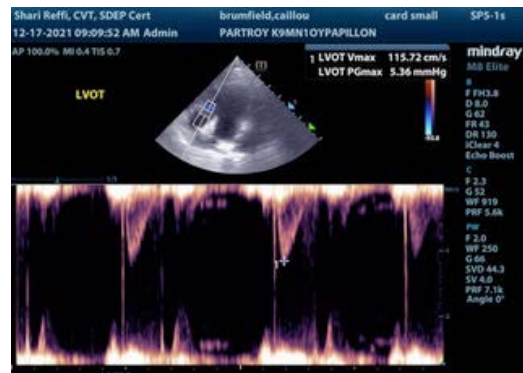
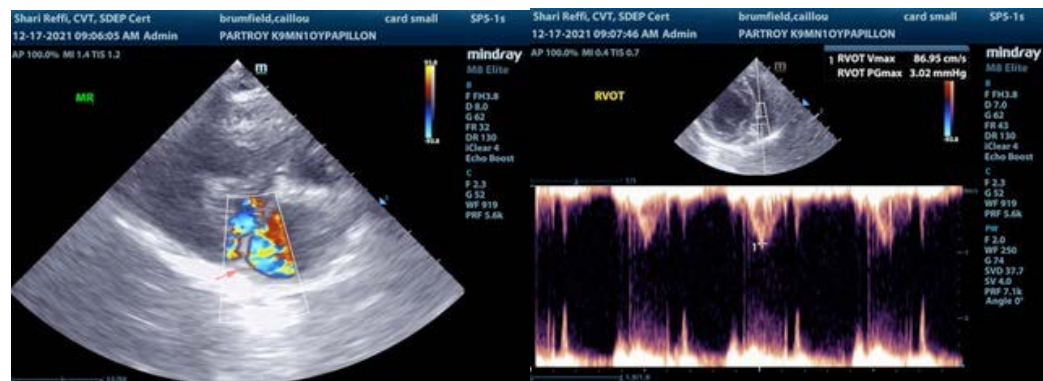
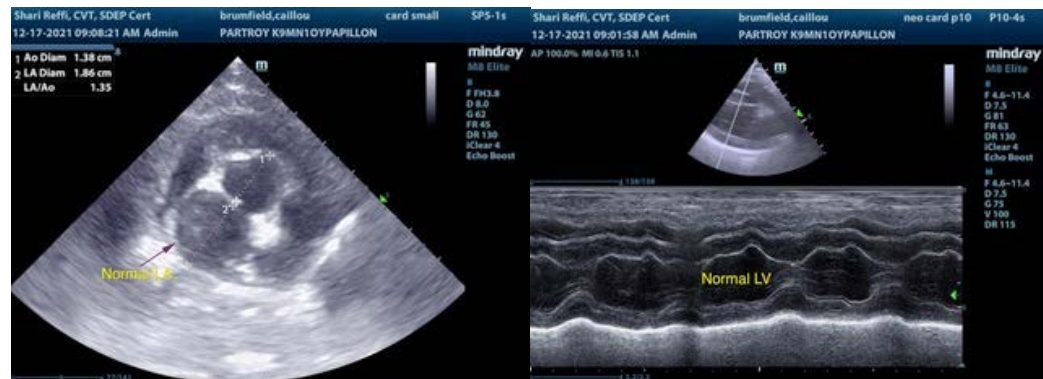
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PATIENT

Caillou Brumfield

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.

BREED

Papillon

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

Neutered Male

AGE

10 Years

WEIGHT

10.5 Pounds

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