



PATIENT

Oakley Lyons

SPECIES

Canine

BREED

Pug

SEX

Neutered male

AGE

6 years

WEIGHT

22 lbs

INTERPRETED BY

Bradley Harris, DVM,
DACVECC, DACVIM
(cardiology)

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton Animal
Clinic

REFERRING VET

Dr. Stafford

INVOICE

68979

DATE

11/24/25

PRESENTING CLINICAL SIGNS

History: The owner reports that last night, Oakley experienced an episode where he appeared to lose control of his hind limbs. He was trembling, walking aimlessly, and seemed very frightened with a rapid heart rate. The event lasted approximately three minutes. He did not lose consciousness, urinate, or defecate, but was wobbly. Following the episode, he went into his crate for over an hour, which is uncharacteristic, and showed no interest in food or water, appearing exhausted. He seems normal today. A similar, less distinct episode occurred about three years ago, after which bloodwork reportedly showed a possible heart-related marker, and an echocardiogram was recommended but not performed. A proBNP test performed last summer was elevated, indicating cardiac stretch. The owner also notes two recent instances where Oakley was frantic on the deck, which she initially attributed to bee stings but now questions if they were milder episodes.

Abnormal PE/Chem/CBC/UA Results: Grade 1-2/ 6 intermittent left systolic basilar murmur. BNP = 759, globulin = 4.3, chloride = 107. Last year on 7/1/2024, BNP = 1607.5.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The left atrium is normal in dimension. The left ventricle is normal in dimension with normal systolic function. The right atrium and ventricle are subjectively normal in dimension and systolic function. The anterior and posterior mitral and tricuspid valve leaflets presented normal linear structure, extension in systole, and union in diastole without regurgitation, prolapse, or myxomatous changes noted. The left ventricular outflow tract demonstrated normal laminar flow and the visible aorta is unremarkable. The right ventricular outflow tract assessment revealed normal laminar flow, and appropriate diameter and distensibility. There is no evidence of semilunar valve insufficiency. There is no visible pericardial, pleural, or free peritoneal fluid noted. The cardiac chambers, pericardial and visible extra-cardiac regions were free of masses, spontaneous echo contrast, or thrombi.

CANINE CARDIAC PARAMETERS	Body Weight kg	HR BPM	LAD 4 ch Long	RAD 4 ch Long	La/Ao Heart Base	LVIDd	LVIDs
NORMAL PARAMETER		50-100			<1.6		
PATIENT	10 kg	NM	2.54	2.03	1.19	2.45	1.65
CANINE CARDIAC PARAMETERS	FS	EPSS	PV V MAX (m/s)	AV V Max (m/sec)	MR Vmax	TR Vmax	RPA distensibility (normal >30%)
NORMAL PARAMETER	28-40	<0.6	0.7-1.6	0.7-1.7	4.5-5.5	< 2.7	
PATIENT	33	0.2	NM	NM	NM	NM	NM

ULTRASONOGRAPHIC FINDINGS

These findings are consistent with an essentially normal echocardiogram. Any murmur will be considered functional in origin. No cardiac cause of the morbidity is identified.



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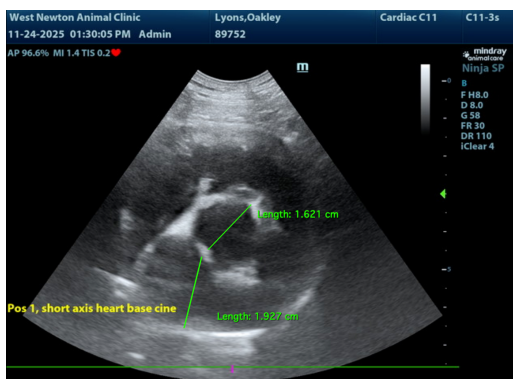
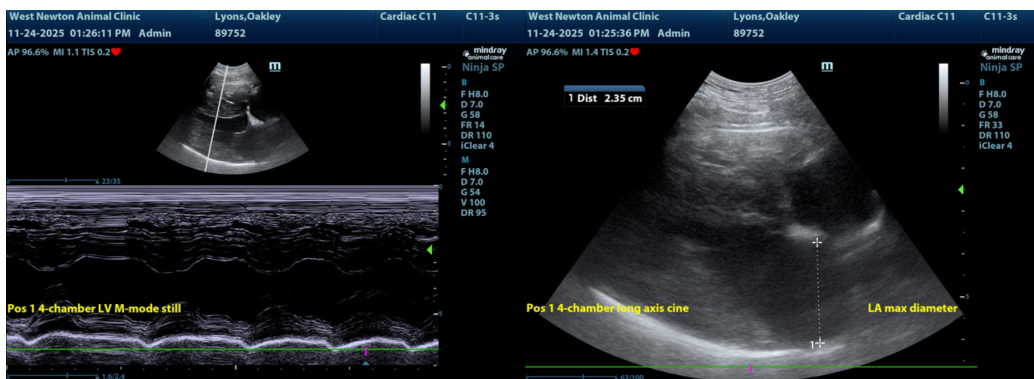
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given these findings, no cardiac therapy is recommended. There are no cardiac contraindications to fluid therapy or corticosteroid therapy, as indicated for further assessment and treatment. No specific cardiac recheck is recommended unless a murmur or clinical signs of heart disease develop.

Anesthesia considerations:
No special considerations are necessary.

Diet:
No special considerations are necessary. Any high-quality food from Hills, Royal Canin, Science Diet, Eukanuba, Iams, or Purina is reasonable.

Activity:
No special considerations are necessary.



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.

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

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