



PATIENT

Madison Wilson

PRESENTING CLINICAL SIGNS

History: History of heart-based mass, adjacent to aorta, measuring 3.5cm x 5.5cm in 9/2022. Assess prior to dental.

SPECIES

Canine

ELECTROCARDIOGRAPHIC FINDINGS

A six lead ECG is available at 25mm/s; 10mm/mV. The average heart rate is 135bpm (range 125-150bpm). The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P wave morphology is positive with a normal dimension. Normal PR. The QRS morphology is positive with normal dimension. MEA is normal. A single APC is identified. No VPCs, pauses or other dysrhythmias observed.

BREED

Australian Terrier

ECG diagnosis: Normal sinus rhythm with respiratory variation. Single isolated APC.

SEX

Female Spayed

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Uniform echogenicity mass associated with the ascending aortic segment, 3.3 x 4.2cm in largest cross section. The mass is well encapsulated and does not appear to be compressive. No obvious infiltration is seen. No mitral regurgitation, normal mitral valve. No TR. The right heart appears normal. Left atrium is normal. LV is normal in diameter. The pulmonic and aortic valves are normal in appearance. No AI or PI identified. No pericardial or pleural effusion.

AGE

12 years

CARDIAC CHART

WEIGHT

26.62lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

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	NA	NA	1.3	1.2	44	80	0.7
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	BELOW	BELOW	BELOW	BELOW
PATIENT	NM	1.3	1.6	12.1	1.8	2.7	1.5
*Normal chamber parameters expressed as a mean value (SD)							
BODY WEIGHT DEPENDENT PARAMETERS							
<i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>							
				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
				10	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)
				15	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)
				20	2.02 (1.9)	4.14 (2.2)	2.80 (2.0)
				25	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)
				30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
				35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
				40	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)
				50	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)

IMAGING PERFORMED BY

Dana Alterman,
RDCS, LVT

HOSPITAL NAME

Eubank Animal Clinic

REFERRING VET

Dr. Bannon

INVOICE

31455

DATE

6/20/23

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cardiac structure and function in this patient are overtly normal, with no dilation or dysfunction. Cardiac neoplasia associated with the heart base persists, as was previously documented. The most likely tumor type is a chemodectoma; however, the location is somewhat atypical. Other possibilities such as an ectopic parathyroid tumor cannot be ruled out. Heart based tumors are often incidental findings, as is the case here. Given a lack of pericardial effusion,



PATIENT

Madison Wilson

it is difficult to definitively evaluate the remainder of the aortic body and a thoracic CT may be helpful to screen for other lesions, assess for peripheral congestion, etc. Compared to the prior measurements there does appear to be significant progression in size. The ECG is unremarkable with a normal sinus rhythm. A single APC is relatively benign and does not warrant therapy.

SPECIES

Canine

The prognosis with heart-based tumors tends to be fair, with an MST of 1-2 years. The limiting factor is often hemorrhage into the pericardium. Other sequelae include impingement of cardiac blood flow secondary to tumor growth, or metastasis to the thorax or abdomen. Chemotherapy and/or radiation therapy can also be discussed with an Oncologist.

BREED

Australian Terrier

Mild activity restriction and omega fatty acid supplementation are recommended in any arrhythmic patient.

SEX

Female Spayed

No cardiac medications are indicated at this time. Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

AGE

12 years

Anesthetic risk is considered mild if needed. Cardiac protective drug choices (opioid/benzodiazepine premedication, propofol or alfaxalone induction, isoflurane gas) are recommended. Pre-oxygenate for 5-10 minutes prior to induction. Monitor for arrhythmias, hypotension, and hypoxia both intra and post-operatively and intervene as necessary. Mild IV fluid restriction is recommended to avoid fluid overload. Avoid heart rate stimulating drugs such as atropine unless clinically indicated.

WEIGHT

26.62lbs

PLAN

Consider advanced imaging and full systemic evaluation as discussed. Consider consultation with an IM or Oncology Specialist for possible treatment options.

INTERPRETED BY

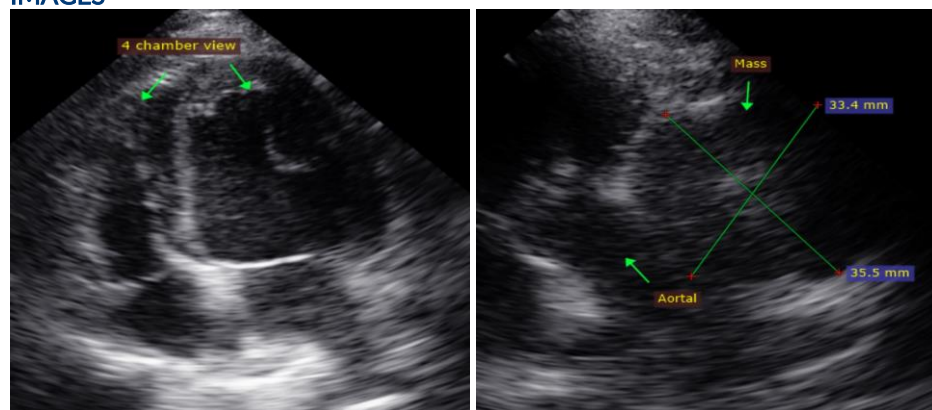
Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

Recommend reassess tumor size in 6 months, sooner if clinical signs arise.

IMAGING PERFORMED BY

Dana Alterman,
RDCS, LVT

IMAGES



HOSPITAL NAME

Eubank Animal Clinic

REFERRING VET

Dr. Bannon

INVOICE

31455

DATE

6/20/23





PATIENT

Madison Wilson

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. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

BREED

Australian Terrier

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

SEX

Female Spayed

AGE

12 years

WEIGHT

26.62lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

**IMAGING
PERFORMED BY**

Dana Alterman,
RDCS, LVT

HOSPITAL NAME

Eubank Animal Clinic

REFERRING VET

Dr. Bannon

INVOICE

31455

DATE

6/20/23