


**PATIENT**

Tony Hornic

**SPECIES**

Canine

**BREED**

French Bulldog

**SEX**

Male Intact

**AGE**

1.5 years

**WEIGHT**

26.6lbs

**INTERPRETED BY**

 Maggie Machen Lamy,  
 DVM DACVIM  
 (Cardiology)

**IMAGING PERFORMED BY**

Kelly Reschny, RVT

**PRESENTING CLINICAL SIGNS**

History: Presented for 5/31/22 for multiple syncopal episodes within about one month - first episode started coughing, then fainted - second episode started retching like would vomit, then fainted - each syncope episode, patient falls over onto back, legs up in air, seems to lose consciousness, lasts about 10 seconds - afterwards some shaking but seems back to normal quickly gets winded easily Some coughing noted 5/31/22 - moderately increased lung sounds on auscult. - No heart murmur or arrhythmia noted on auscultation - Thoracic radiographs revealed mild aspiration pneumonia, treated with Clavaseptin x 3 weeks. - Marked stenotic nares, brachycephalic anatomy, referred upper airway noises Recheck 6/14/22 - recheck thoracic radiographs - pneumonia seems to be improving, treated additional week of antibiotics. - No additional syncope episodes noted since previous visit  
 Abnormal PE/Chem/CBC/UA Results: BP: 134/95 (MAP 100) HR 100.

**RADIOGRAPHIC FINDINGS** \*NOTE: Images submitted for supplemental cardiac information only.  
 Normal cardiac silhouette. No obvious evidence of CHF.

**ELECTROCARDIOGRAPHIC FINDINGS** \*Note: Single lead ECGs are evaluated as a rhythm strip. Morphology/MEA cannot be definitively commented on.

A single lead ECG is available; 50mm/s, 20mm/mV. The average heart rate is 190bpm with a largely regular rhythm. The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P and QRS morphologies are positive. No ectopic beats, pauses or other dysrhythmias observed.  
 ECG diagnosis: Normal sinus tachycardia.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve leaflets with no prolapse into the left atrial lumen. No mitral regurgitation with a normal left atrial dimension. Normal LV diameter with adequate myocardial function. The tricuspid valve appears normal with no tricuspid regurgitation. Normal right atrial and ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities with laminar flow. No obvious aortic or pulmonic insufficiency. No pericardial or pleural effusion noted. No obvious cardiac masses.

**CARDIAC CHART**
**HOSPITAL NAME**

 Graham Animal  
 Hospital

**REFERRING VET**

Dr. Lukacs

**INVOICE**

24926

**DATE**

6/22/22

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	NM	1.2	59	90	NM
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	186	1.6	1.5	12.1	1.6	2.2	0.9
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)



**PATIENT**

Tony Hornic

**SPECIES**

Canine

**BREED**

French Bulldog

**SEX**

Male Intact

**AGE**

1.5 years

**WEIGHT**

26.6lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

Kelly Reschny, RVT

**HOSPITAL NAME**

Graham Animal  
Hopsital

**REFERRING VET**

Dr. Lukacs

**INVOICE**

24926

**DATE**

6/22/22

**BODY WEIGHT DEPENDENT PARAMETERS**

*\*Note: All measurements based upon multi-modal images and methods. An average value is reported.*

Adapted from June Boon, Veterinary Echocardiography, 1998  
Rishniw M and Hollis NE, J Vet Intern Med 2000; 14:429-435  
Hansson et al, Vet Rad and Ultrasound 2002  
Bonagura et al. Echocardiography: principles of interpretation, Vet Clin North Am 15:1177, 1995

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)

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

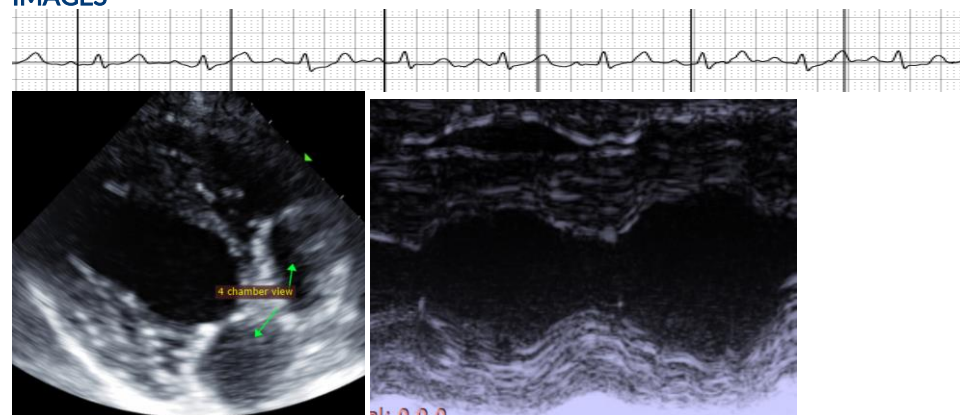
Overtly normal cardiac dimensions and function, with no obvious dysfunction or dilation of the left heart. No significant valvular leaks are visualized, and no evidence of pulmonary hypertension. The ECG is unremarkable with a normal sinus tachycardia.

No obvious cause for syncope is identified in this study. Remaining possibilities include vasovagal event (particularly given underlying airway disease), intermittent arrhythmias (not appreciated here), blood pressure swings, etc. Further evaluation is advised depending on nature of the episodes and recurrence going forward. A holter can be considered if no alternative explanation is obtained.

Monitor for development of a heart murmur, cough, labored breathing, exercise intolerance or collapse episodes.

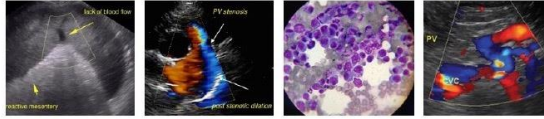
A recheck echocardiogram is recommended should a significant murmur develop, or signs of cardiac compromise be noted in the future.

**IMAGES**



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. 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.



**PATIENT**

Tony Hornic

Maggie Machen Lamy, DVM

Diplomate of the American College of Veterinary Internal Medicine (Cardiology)

info@sonopath.com

**SPECIES**

Canine

**BREED**

French Bulldog

**SEX**

Male Intact

**AGE**

1.5 years

**WEIGHT**

26.6lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM DACVIM  
(Cardiology)

**IMAGING  
PERFORMED BY**

Kelly Reschny, RVT

**HOSPITAL NAME**

Graham Animal  
Hopsital

**REFERRING VET**

Dr. Lukacs

**INVOICE**

24926

**DATE**

6/22/22