



PATIENT

Sam Fey

SPECIES

Canine

BREED

English Bulldog

SEX

Female Spayed

AGE

9 years

WEIGHT

58.6lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Wasserman, DVM

HOSPITAL NAME

Highlands Animal
Hospital

REFERRING VET

Dr. Frankenberger

INVOICE

47716

DATE

4/29/26

PRESENTING CLINICAL SIGNS

History: CXR showed abnormal lung pattern and subjective cardiomegaly. No murmur or cough. Assess prior to anesthesia.

RADIOGRAPHIC FINDINGS *NOTE: Images submitted for supplemental cardiac information only.

Rule out mild cardiomegaly v normal breed variant. No obvious evidence of CHF.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Minimal diffuse thickening of mitral valve leaflets with no obvious prolapse into the left atrial lumen. No mitral regurgitation is identified. Normal left atrial dimension. Normal LV diameter with adequate myocardial function. The tricuspid valve appears subjectively normal, with no tricuspid regurgitation. The right heart is mildly enlarged. The pulmonic and aortic valves are normal in morphology and mobility. No aortic abnormalities identified. The LVOT velocity is normal. Normal pulmonic outflow velocities. The MPA and branches are normal. No aortic or pulmonic insufficiency. No pericardial or pleural effusion noted. No cardiac tumors observed.

CARDIAC CHART

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	1.2	41	77	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	130	1.2	0.9	26.6	2.8	3.9	2.3
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
BODY WEIGHT DEPENDENT PARAMETERS				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
*Note: All measurements based upon multi-modal images and methods. An average value is reported.				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 systolic function is intact. The right heart is mildly enlarged without explanation, which likely supports a normal variant in this breed (particularly in the absence of a murmur or reported clinical signs). That being said, this particular



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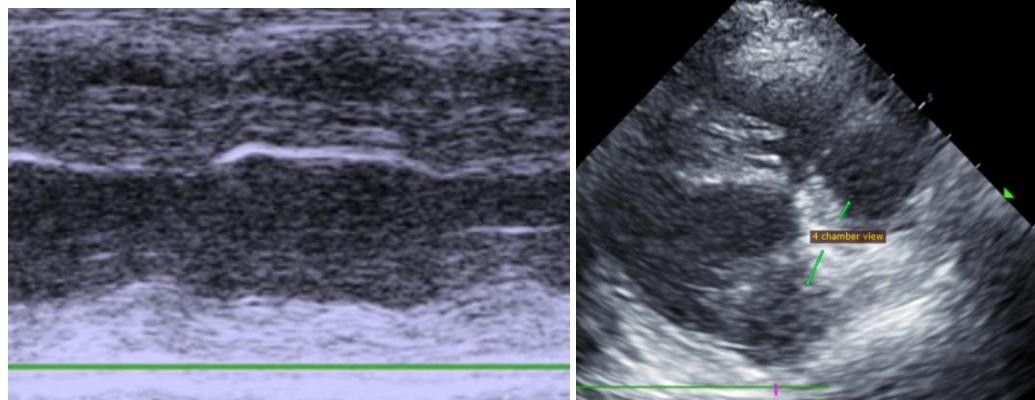
signalment is extremely difficult to evaluate. If suspicion persists and/or any clinical signs arise, advanced imaging with a local Cardiologist or potentially a thoracic CT scan should be considered. A Radiologist review of 3-view films is recommended.

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

No cardiac contraindication for general anesthesia.

A recheck echocardiogram is recommended 1 year, sooner if clinical signs or a murmur develops 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.

Maggie Machen Lamy, DVM

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