



PATIENT

Waffles Hughes

SPECIES

Canine

BREED

Bichon Frise Mix

SEX

Female Spayed

AGE

12.5 years

WEIGHT

23.5lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Westwood Regional
Vet Hospital

REFERRING VET

Dr. Hartwick

INVOICE

27361

DATE

11/9/22

PRESENTING CLINICAL SIGNS

History: Recheck echo. Cough. Grade 5/6 heart murmur. Borderline renal values. BP: 190/114, 162/140, 126/100mmHg.

-Current medications: Pimobendan 1.5mgs x 1 1/4 BID, Furosemide 12.5mg x 1 am & 1/2 pm, Spironolactone 25mgs x 1/2 BID, Benazepril 10mgs 1/2 BID, Theophylline 50mgs PO 1 BID.

-Abnormal PE/Chem/CBC/UA Results: Chem 17= BUN 63, creat. 1.5, K+ 6.1, all else WNL.

-Pertinent previous echo findings (5/2022 MML): Severe MR, severe LAE, mild LVE, mild TR. LA: 2.9, LV: 3.0.

ECHOCARDIOGRAM FINDINGS

2D, m-mode and Doppler imaging are available. Diffuse thickening of mitral valve leaflets (anterior > posterior) with mild prolapse into the left atrial lumen. Severe eccentric mitral regurgitation with moderate to severe left atrial dilation. Mild LV dilation with adequate myocardial function. The tricuspid valve appears mildly thickened, with mild tricuspid regurgitation. Normal velocity. Normal right heart. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities. No pulmonic or aortic 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	5.9	2.5	1.5	1.75	42	74	0.1
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	100	1.5	1.1	10.7	2.6	3.5	1.7
*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

Chronic degenerative valve disease persists with overall stability. Severe mitral and mild tricuspid regurgitation are unchanged with slightly improved left heart dimensions. Regardless, severe left atrial enlargement suggests the risk for congestive heart failure is high. No additional issues are identified.



PATIENT

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Given these findings, continue all medications as previously recommended. A cough is mentioned; however, the chest radiographs do not show evidence of active congestion. Hydrocodone is strongly recommended to improve quality of life.

SPECIES

Canine

The average survival of canine patients with active pulmonary edema is 8-9 months on medications, however they generally are able to maintain a good quality of life for that period. Patient will always be at risk for recurrent CHF, development of arrhythmias/LA tear, syncope and/or sudden death in the future. Monitoring of renal values is recommended lifelong.

BREED

Bichon Frise Mix

Omega fatty acid supplementation and mild salt restriction may also be of some long-term benefit. Monitor for development of a worsening cough, labored breathing, exercise intolerance or collapse episodes.

SEX

Female Spayed

The reported blood pressures are too variable to interpret. Ideally obtain serial measurements in a controlled, low stress environment and continue until the readings plateau within 5mmHg of variability for 3+ readings.

AGE

12.5 years

PLAN

Continue Pimobendan, Lasix, Spironolactone and Benazepril as prescribed. Recommend Hydrocodone as discussed.

WEIGHT

23.5lbs

Monitor renal values and BP every 3-4 months lifelong.

INTERPRETED BY

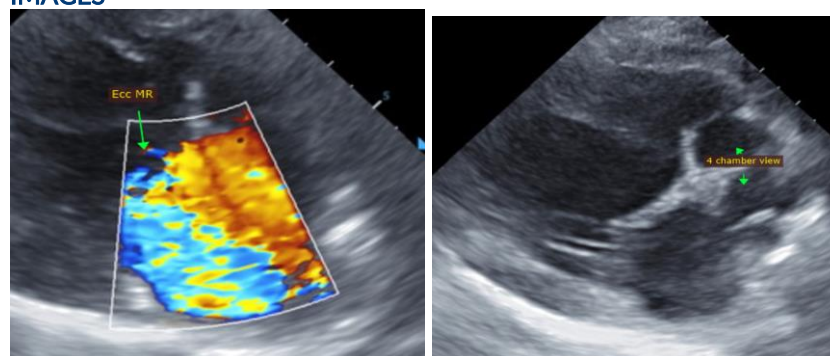
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(Cardiology)

A recheck echocardiogram is recommended in 6 months to screen for progression, sooner if clinical signs arise/persist.

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IMAGES



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Dr. Hartwick

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.

INVOICE

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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.

DATE

11/9/22

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