

PATIENT PRESENTING CLINICAL SIGNS

Coco Drew

- Grade III/VI heart murmur (R>L), no arrhythmia
- TFAST: Moderate amount of pleural effusion, subjectively La:Ao >1.5, thickened RV wall
- 300 ml blood-tinged tan pleural effusion removed - submitted for cytology

SPECIES

Feline

BREED

Siamese

SEX

Neutered Male

Rads: Right middle/cranial alveolar pattern +/- left cranial lung lobe interstitial pattern - differentials include cardiogenic pulmonary edema (given cardiomegaly), bronchopneumonia or less likely atelectasis or neoplasia. Moderate cardiomegaly - probably due to cardiomyopathy (e.g. HCM or HCM phenotype secondary to hyperthyroidism). Suspected sternal lymphadenopathy -reactive or metastatic. Subjectively thickened appearance of small intestines may represent normal variation, fluid filled intestines or, given reported weight loss, chronic enteropathy (e.g. due to IBD or small cell lymphoma) is also considered.

AGE

11 Years

WEIGHT

4 kg

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	4.0	NM	0.62	1.4	0.65	50	85
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
NORMAL PARAMETER	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
PATIENT	--	2.5	2.3		3.0	1.3	NM
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

IMAGING PERFORMED BY

Andrea Nicastro DVM, DACVIM

HOSPITAL NAME

Veterinary Specialty Care Blue Pearl Mt. Pleasant

REFERRING VET

Dr. Holmes

INVOICE

13911

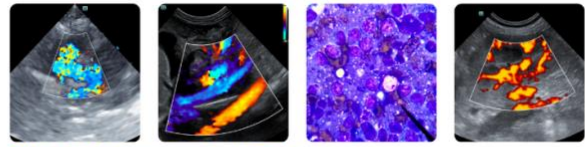
DATE

02/21/26

Cardiac Presentation

The left ventricular wall is mild hypertrophied with regions of irregularity. There is a diffusely hyperechoic endocardium consistent with fibrosis and ventricular remodeling. Papillary muscle hypertrophy with regions of remodeling. Severe increased left atrial dimension, no evidence of foreign thrombus with possible early indistinct spontaneous contrast. There is indistinct systolic anterior motion (SAM) of the mitral valve present, with an elevated LVOT velocity seen on color flow. Dynamic LVOT profile. There is moderate eccentric mitral regurgitation present secondary to SAM measuring approximately 6.0 m/s. Normal right atrial size. Normal right ventricle size. Normal RVOT velocity. No TR. No other obvious valvular regurgitation is present. No obvious cardiac tumors. No evidence of arrhythmia or hepatic congestion. Pericardial comet tail artifact with pleural effusion.

ULTRASONOGRAPHIC FINDINGS



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- Hypertrophic obstructive cardiomyopathy with LV remodeling/fibrosis.
- Severe LA enlargement with indistinct spontaneous contrast.
- Elevated LVOT velocity and dynamic profile.
- Moderate eccentric MR.
- Pleural effusion with pericardial comet tail artifact.

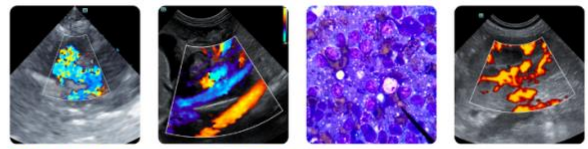
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The degree of atrial dilation confirms the diagnosis of congestive heart failure and cardiogenic pleural effusion. Concurrent thoracic or pulmonary disease cannot be definitively excluded. Correlation with effusion analysis cytology +/- culture and sensitivity if clinically indicated is recommended.

Assessment of T4 level and systemic BP to rule out potential complicating factors is recommended. Continued hospitalization with injectable LASIX in an attempt to stabilize patient is indicated. If patient is stabilized, LASIX 1 to 2 mg/kg BID and Clopidogrel 75 mg tab, 0.25 tab PO SID is recommended. Given evidence of congestive heart failure and dynamic LV outflow obstruction, Atenolol and Pimobendan at this stage are contraindicated.

Concurrent monitoring of renal parameters and ECG are indicated. Going forward, this patient will remain at severely increased risk for progressive CHF or thrombotic event or possible sudden death.

Elective anesthesia is not advised. Sonographic monitoring is recommended with recheck echo suggested in three to four weeks if stabilized, sooner if continued or progressive evidence of CHF.



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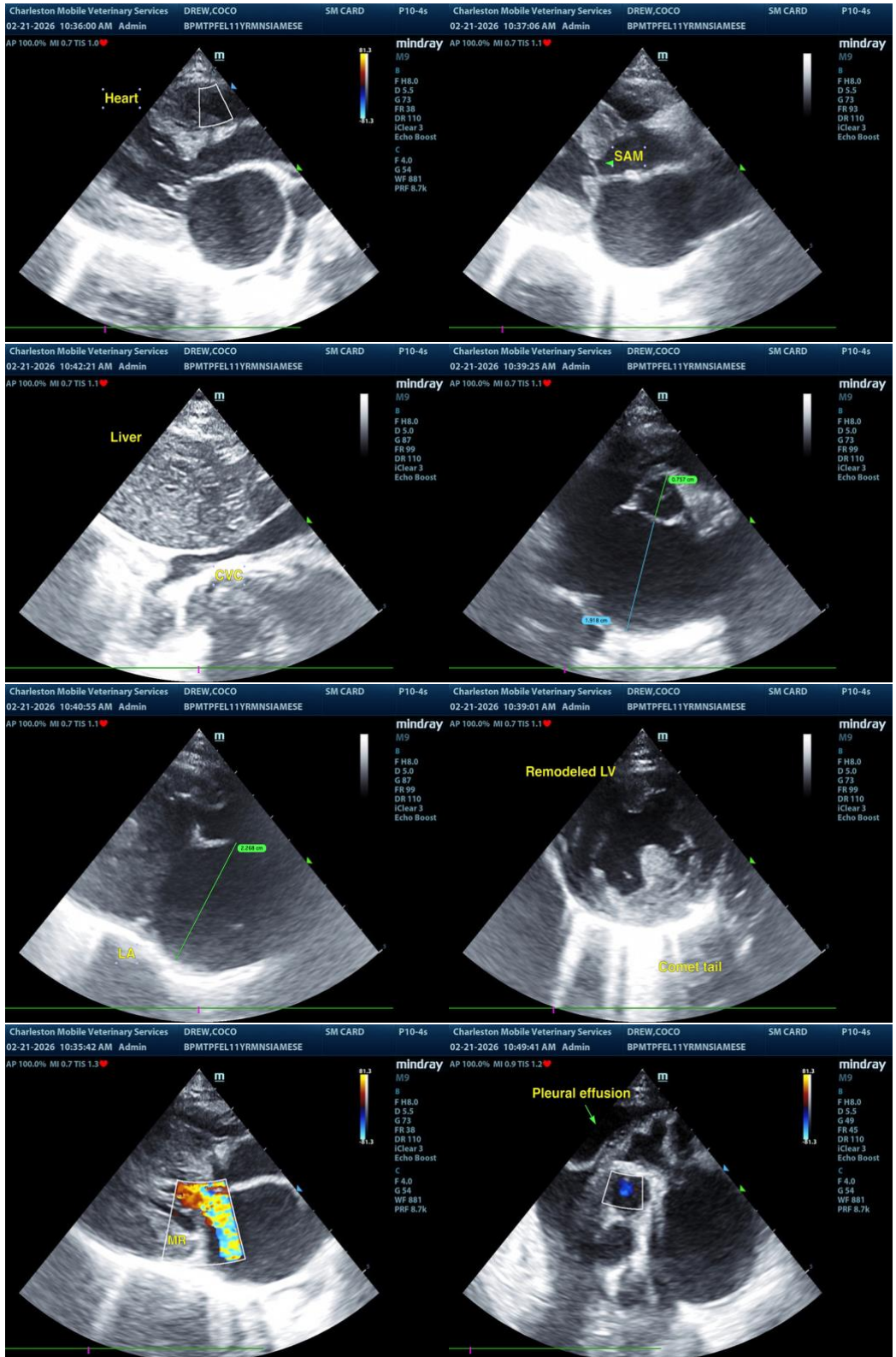
Dr. Holmes

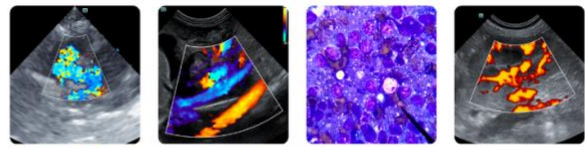
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PATIENT

Coco Drew

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.

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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.

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