



PATIENT PRESENTING CLINICAL SIGNS

Whyly Damewood

Minor weight loss.

Abnormal PE/Chem/CBC/UA Results: Senior screen normal. Cardiopet proBNP 1500 Blood Pressure Measurements 136/102 (113), 135/118 (124), 128/122(124) Current Medications None

SPECIES

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

American Shorthair

SEX

Neutered Male

AGE

12 Years

WEIGHT

10.56 Pounds

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm) Short axis	LVWd (cm) Short axis	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	4.8		0.67	1.35	0.48	57	NM
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	1.97 = 2.0	1.81	1.91	laminar 0.97	laminar 1.01	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

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

Electrocardiogram (lead II)

Left sided ventricular premature contractions (two beats) and one fusion beat

IMAGING PERFORMED BY

Sara Hansen

Echocardiographic findings

Mitral valve

- Valve leaflets: mild to moderate thickening and irregularity of both leaflets; consistent with myxomatous degeneration
- Mitral regurgitation: Mild to moderate
- Left atrium: Moderate to marked left atrial enlargement
- Left auricle: Moderate left auricular enlargement
- LA: Ao ratio: mild to moderate increase
- Left ventricle: Within normal limits
- No evidence of "smoke"
- Presence of systolic anterior motion of the mitral valve

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REFERRING VET

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Tricuspid valve

- Valve leaflets: No abnormalities
- Tricuspid regurgitation: Trivial
- Right atrium: No abnormalities
- Right auricle: No abnormal findings
- Right ventricle: Cardiac tamponade



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Aortic valve

- Valve leaflets: No abnormalities
- Aortic insufficiency: Absent
- Turbulent blood flow in the left ventricular outflow tract: Absent

Pulmonic valve

- Valve leaflets: No abnormalities
- Pulmonary insufficiency: Absent
- Main pulmonary artery and bifurcations: No abnormalities
- Pulmonary artery: aortic ratio within normal limits.

Other

- Pulmonary edema: Present ("B lines noted")
- Pericardial effusion: Small amount present, however, enough to cause tamponade of the right ventricle
- Pleural effusion: Absent
- Intracardiac mass: No obvious signs
- Papillary muscles: Moderate hypertrophy of the papillary muscles of the left ventricle
- Endocardium: No abnormalities noted
- Myocardium: Moderate hyperechogenicity

ULTRASONOGRAPHIC FINDINGS

Cardiac

Hypertrophic obstructive cardiomyopathy with pericardial effusion and cardiac tamponade of the right ventricle. An obvious mass is not visualized, however, neoplasia cannot be excluded with certainty.

Spironolactone and benazepril may be initiated to help decrease fibrosis

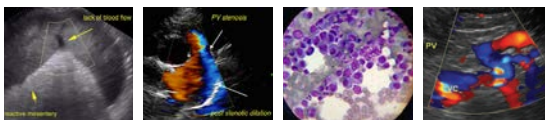
Clopidogrel to reduce the risk of thromboemboli

+/- pimobendan depending on Whyly's response to therapy.

Furosemide may be required in addition to spironolactone, however, it should be used judiciously as it can decrease diastolic function (e.g., 0.5-1 mg/kg divided BID).

Note pericardiocentesis is not normally recommended for the small amount present due to the risks associated with the procedure in cats.

Prognosis is difficult to determine at this time.



PATIENT INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Whyly Damewood

Cardiac

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An arterial blood pressure: performed – results within normal limits

BREED

American Shorthair

spironolactone is suggested to help decrease the risk of fibrosis, and may help decrease preload (slightly). Dose of 0.5-1 mg/kg PO once a day for 3 days, then every 12 hours thereafter. The dose may be increased to 1.5-2 mg/kg PO every 12 hours, depending on renal function.

benazepril may be added in approximately 3-5 days, depending on how Whyly is doing clinically, arterial blood pressure and renal function.

SEX

Neutered Male

Evaluation of serum thyroxine concentration, if not already performed

AGE

12 Years

clopidogrel 75 mg/tablet. Administer ¼ of a tablet once a day. Administer with food. May need to place in empty gelatin capsule to camouflage bitter taste. This medication may be started a few days following the pimobendan. GI side effects possible.

WEIGHT

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Monitoring of the resting (sleeping) respiratory rate (RRR) is highly recommended once a day. The RRR should NOT EXCEED 30 breaths per minute (bpm). If the respiratory rate is greater than 30 bpm, or if there is a gradual increase (over a day or two) toward 30 bpm, the patient should be evaluated immediately for congestive heart failure and the appropriate treatment initiated.

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A CBC, serum biochemical profile, SDMA and arterial blood pressure are recommended approximately 10-14 days after having achieved the full dose of spironolactone to monitor renal function. Whyly should also be re-auscultated at that time.

An echocardiogram is suggested in 3 to 6 months to ensure Whyly's parameters remain stable.

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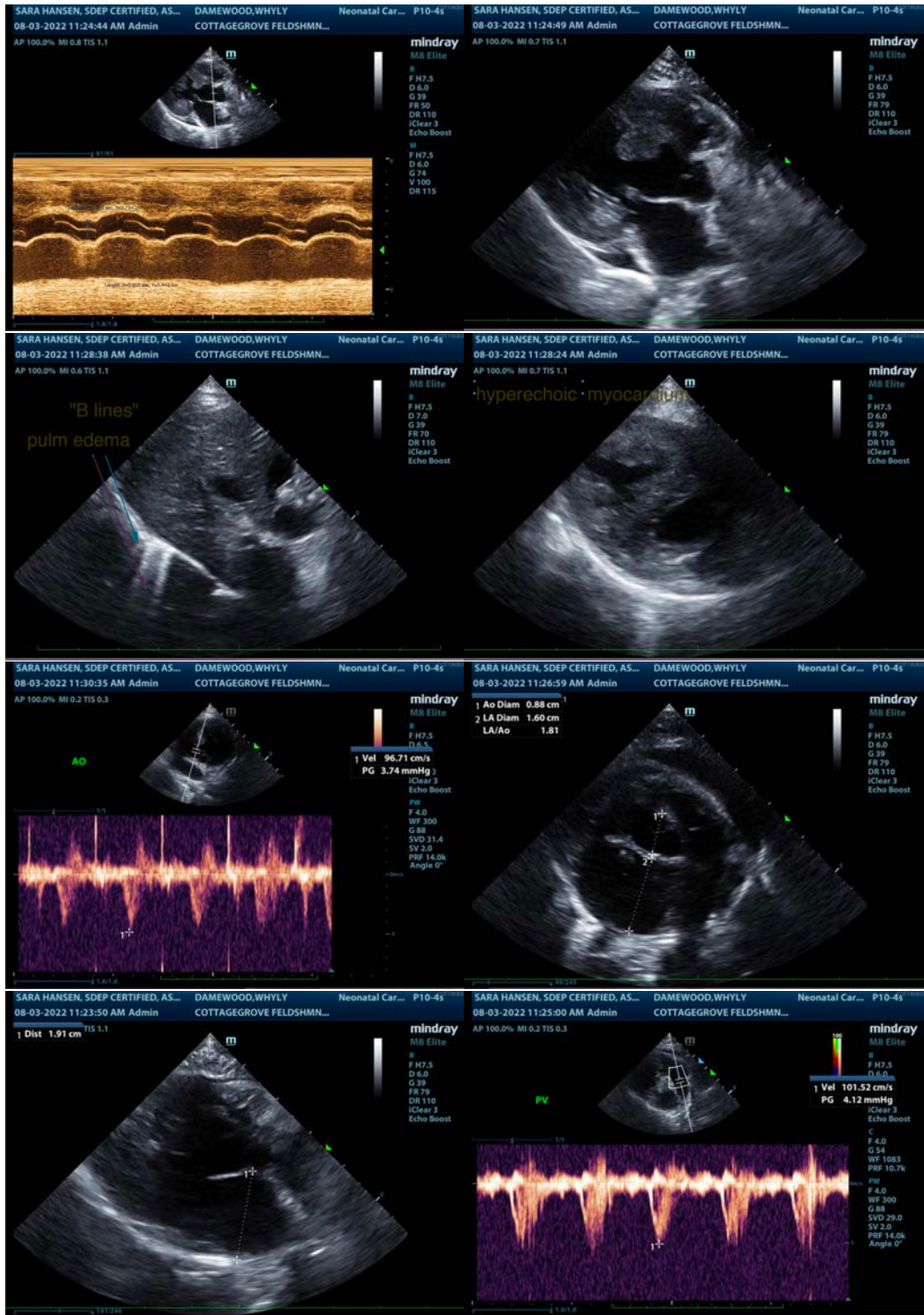
Dr. Damewood

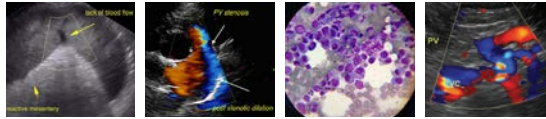
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Feline

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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