



**PATIENT PRESENTING CLINICAL SIGNS**

**Billy Buehler** Presented 1/27/22 with a history of recent onset cough, worse with exercise. Has been eating a GF diet. Thoracic radiographs showed moderate generalized cardiomegaly, perihilar infiltrates. Started on Furosemide 50 mg and and Vetmedin 10 mg both q 12 hours. Cough has since resolved.

**SPECIES** Abnormal PE/Chem/CBC/UA Results: NT-proBNP=5548 (<900) pmol/L

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

**BREED**

Pit Bull Terrier

**SEX**

Neutered Male

**AGE**

14 Years

**WEIGHT**

77 Pounds

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			1.4	1.9	3-5	7	2.0
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				
PATIENT					5.43	5.44	

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Sarah Green

**HOSPITAL NAME**

Healing Spirit

**REFERRING VET**

Dr. Sarah Green

**INVOICE**

35415

**DATE**

2/2/22

**Cardiac Presentation**

The cardiac presentation revealed significant volume overload of the left atrium and left ventricle as well as right atrium and right ventricle. Persistent arrhythmia noted throughout the exam. Contractility of the left ventricle was significantly poor. All parameters for dilated cardiomyopathy are present with arrhythmogenic activity.

**ULTRASONOGRAPHIC FINDINGS**

- DCM presentation with arrhythmogenic activity

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Recommend strict cage rest. Quadrotherapy recommended – Pimobendan 0.3 mg/kg BID, ACE inhibitor 0.5 mg/kg SID progressing to BID, Lasix 2-3 mg/kg BID, Spironolactone at 1-2 mg/kg BID. Taurine levels and assessment for grain-free diet or cause of myocarditis should all be considered. Recheck echo in 10-14 days. This patient is at high risk for sudden death. EKG warranted with potential significant need for anti-arrhythmic therapy as well as the protocol suggested.



**PATIENT**

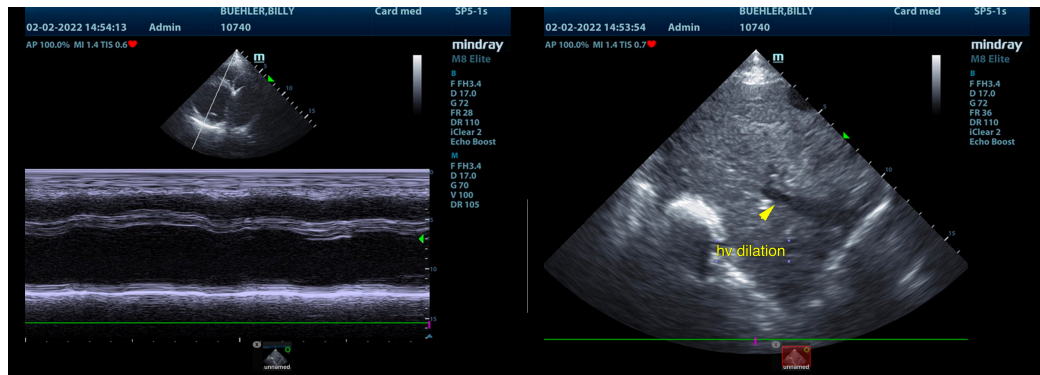
Billy Buehler

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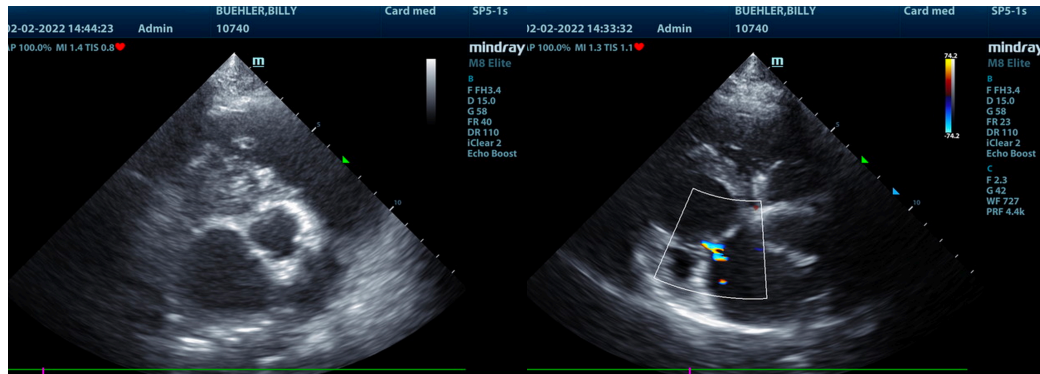
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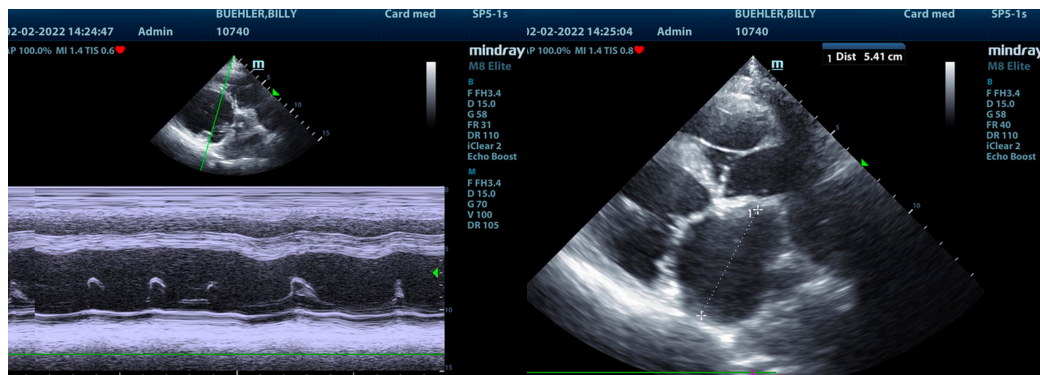
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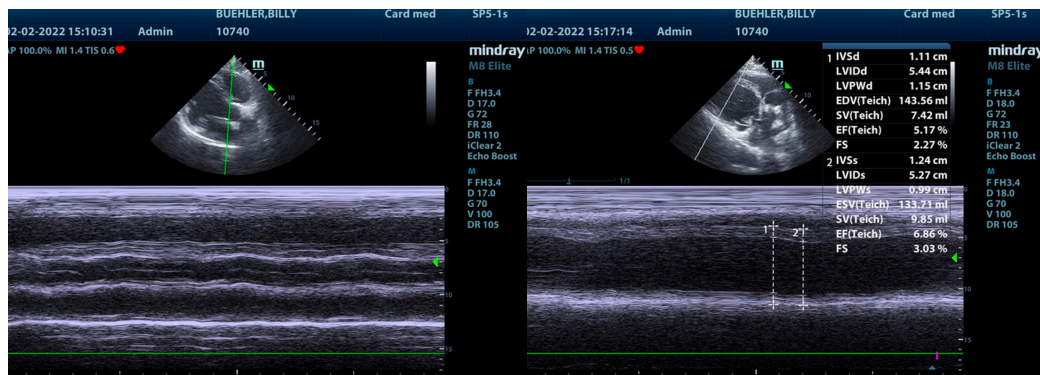


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**PATIENT**

Billy Buehler

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**

Canine

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.

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

[info@SonoPath.com](mailto:info@SonoPath.com)

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