


PATIENT

Charlie Phipps

PRESENTING CLINICAL SIGNS

History: Recheck echo, last one performed 7/25/2022. Current meds: Lasix, Vetmedin, enalapril, and spironolactone. Prior LA max measured 5.0 cm/

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART
BREED

Boxer

The echocardiogram in this patient revealed progressive volume overload in the left atrium and left ventricle with decreased contractility. The hepatic veins were not dilated. Mitral and tricuspid insufficiency was noted with early pulmonary hypertension. The right atrium and auricle revealed normal size, structure and content. No evidence of masses was noted. The right ventricle was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. Pulmonary outflow tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). There was no pericardial or pleural effusion noted.

SEX

Neutered male

AGE

9 years

WEIGHT

72 lbs

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	6.0	3.0	2.0	2.5	20	41	0.8
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	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		1.35	1.05	72 lbs	6.6	4.54	

INTERPRETED BY

Karen Ebersole, DVM, DABVP (Canine and Feline practice)

IMAGING PERFORMED BY

Jenn

HOSPITAL NAME

Westwood Regional VH

REFERRING VET

Dr. Cattiny

ULTRASONOGRAPHIC FINDINGS

Progressive mitral and tricuspid insufficiency with myocardial insufficiency progressing into a DCM type presentation.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend ensuring Vetmedin is utilized at 0.3 mg/kg b.i.d., Enalapril at 0.5 mg/kg b.i.d. and Spironolactone at 1-2 mg/kg b.i.d. and then increase Lasix dose. I recommend to monitor BUN and creatinine. EKG and blood pressure measurements are indicated. The prognosis long term is guarded to poor given the lack of further medications. Target respiratory rate is less than 25/minute. Given that the hepatic veins are not dilated it is debatable on whether Sildenafil would be appropriate in this patient. TR velocities demonstrate only early pulmonary hypertension; however, Sildenafil at 1 mg/kg b.i.d. may be appropriate in the near future. Recheck echocardiogram is recommended in 1-3 months.

INVOICE

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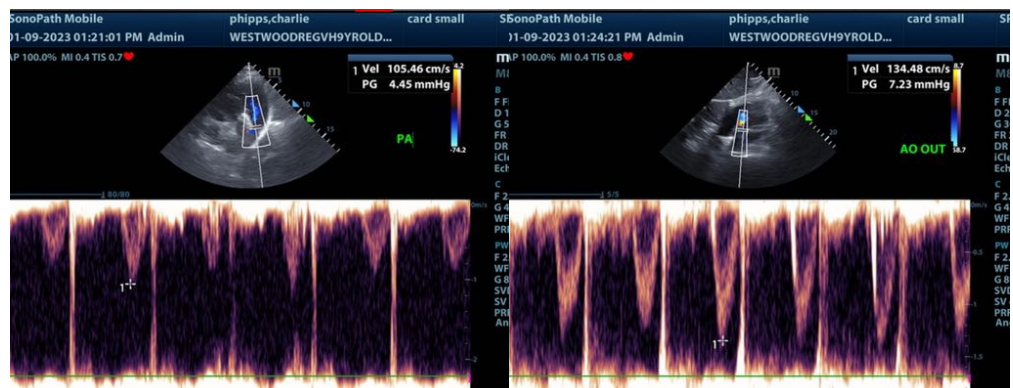
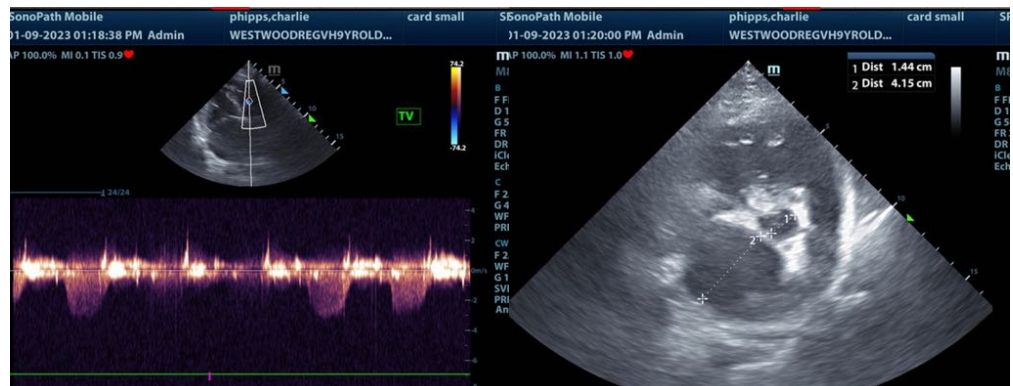
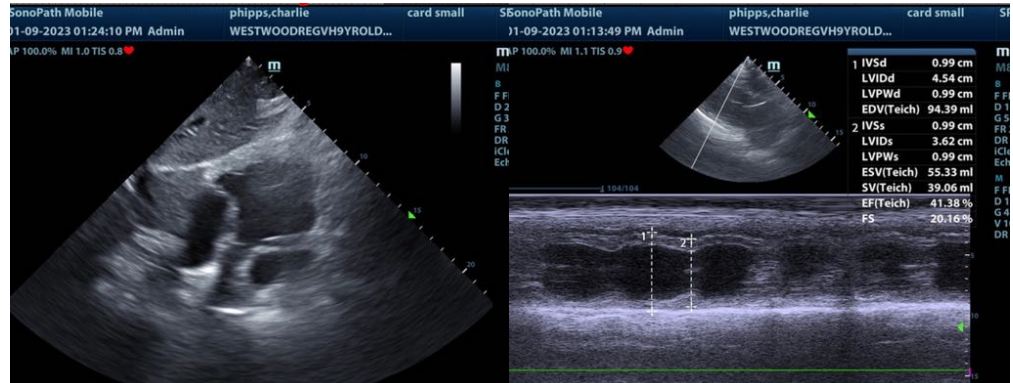
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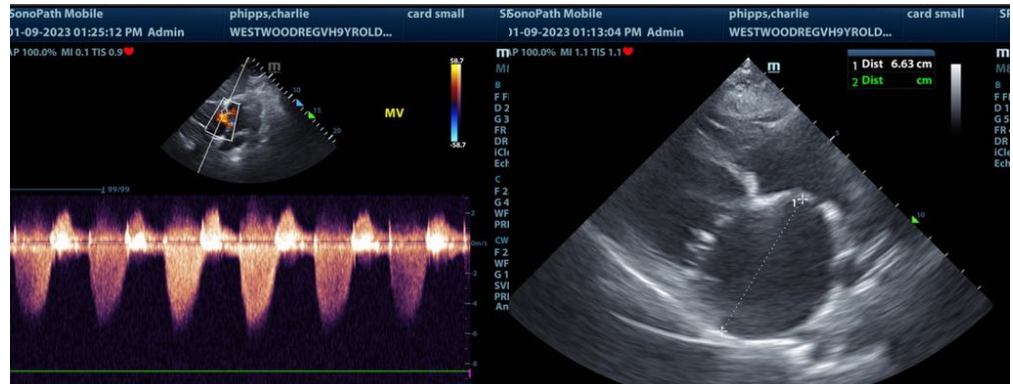
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Karen Ebersole, DVM, DABVP (Canine and Feline practice)
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