



PATIENT PRESENTING CLINICAL SIGNS

Hershey Perez

History: Heart murmur VI/VI. Current meds: hydrocodone, Pimobendan, Lasix, Enalapril.
Abnormal PE/Chem/CBC/UA Results: Glucose 126, K+ 3.2.

SPECIES

Canine

BREED

Chihuahua

SEX

Neutered male

AGE

9 years

WEIGHT

12.1 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Animal Paradise
Hospital

REFERRING VET

Dr. Hellworth

INVOICE

92015

DATE

9/27/21

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated enlarged **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated measurable insufficiency. **Aortic** insufficiency was noted at 5.0 m/sec. Aortic outflow velocity was 1.7 m/sec. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** insufficiency was noted at 4.0 m/sec. This is consistent with moderate to severe pulmonary hypertension. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** insufficiency was present. **Pulmonary** edema lines were noted. No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window. Tachycardia was present along with periodic arrhythmia.

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC PARAMETERS	VMAX (m/s)	VMAX (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	6.0	4.0	NM	> 3.0	30	58	0.37
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC PARAMETERS	(BPM)	VMAX (m/s)	MAX (m/s)	(kg)	2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	137	1.7	0.91	12.1 lbs	4.42 max	4.0	

ULTRASONOGRAPHIC FINDINGS

Stage C1 valvular disease with tachyarrhythmia.

Mitral, tricuspid and aortic insufficiency. Pulmonary hypertension.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend cage rest and aggressive triple therapy in this patient. Continuation of the current protocol is recommended, but increasing Lasix and adding Spironolactone at 1-2 mg/kg b.i.d. ensuring that Pimobendan and Enalapril[ril are b.i.d. dosing. Sildenafil should be added at 1 mg/kg b.i.d. increasing



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to 1.5 mg/kg b.i.d. after 2 weeks. The patient is at risk for sudden death. Very guarded prognosis. Recheck echocardiogram is recommended in 2-4 weeks. Assessment of BUN, creatinine, USG, chest radiographs and blood pressure as well as clinical exam is ideal in 7-10 days. Basal respiratory rate should be <20/min.

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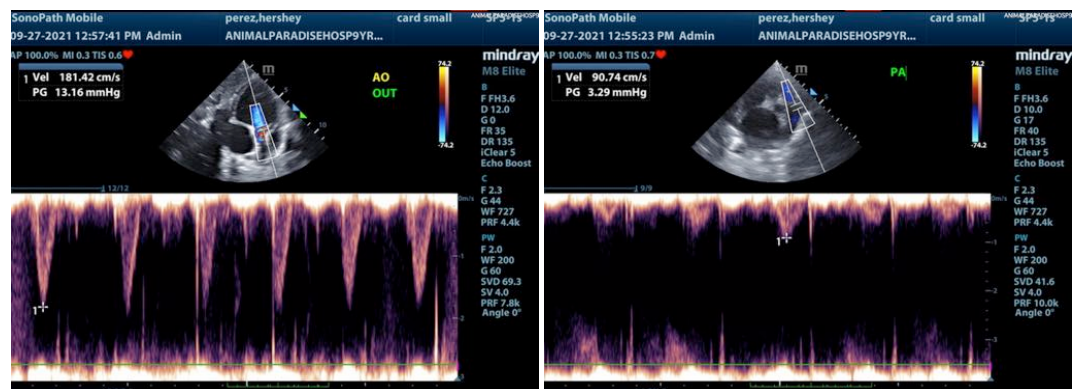
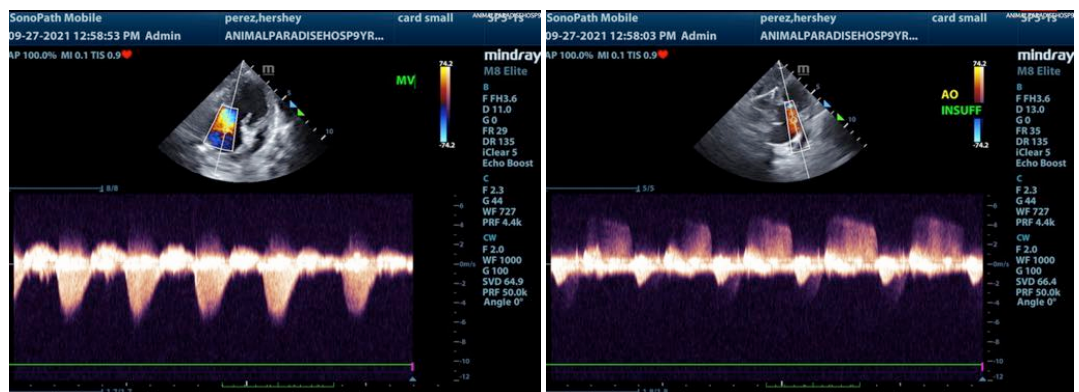
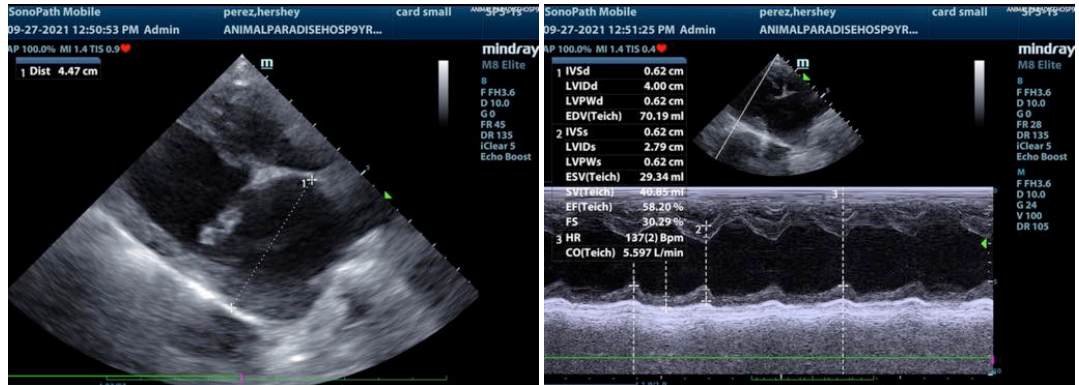
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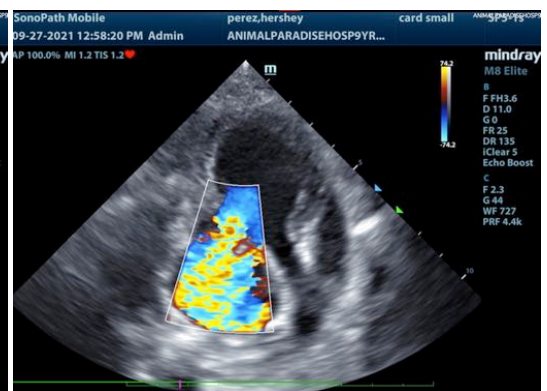
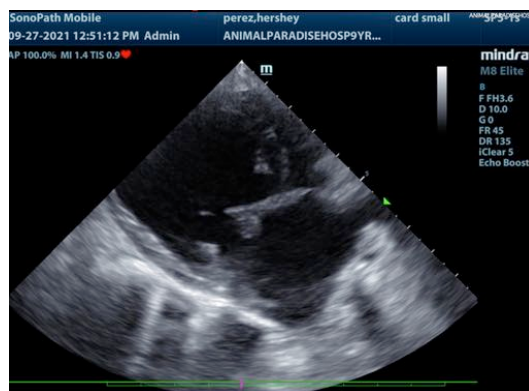
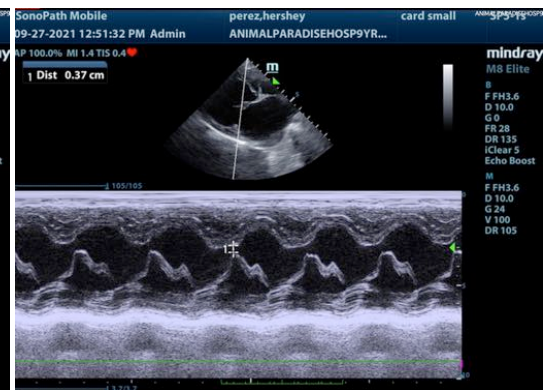
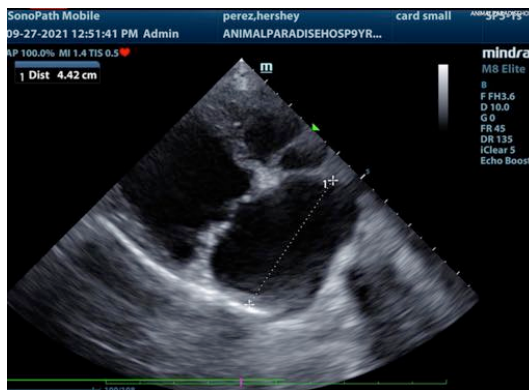
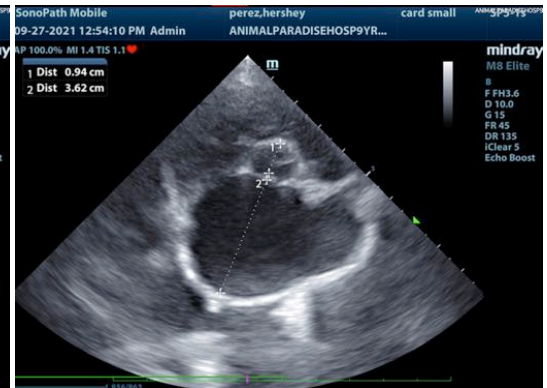
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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