



PATIENT

Princess Becerra

SPECIES

Canine

BREED

Pitbull Mix

SEX

Spayed Female

AGE

7 years

WEIGHT

69.2 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Englewood VC

PRESENTING CLINICAL SIGNS

Pre-anesthetic echo for dental. O says doing well at home. Previous echo and Holter reading reports attached. Current meds: Diltiazem 60mg 1.5 tabs q8h, Vetmedin 10mg q12h

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. Complete filling of the left atrium was noted on color flow assessment of the mitral valve. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. Progressive **left ventricular** dilation and progressive **hypocontractility** was noted. This is consistent with myocardial insufficiency. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. Trivial **tricuspid** insufficiency 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). No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum** and **pericardial** and **extra-cardiac** regions were free of masses in the visible window.

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	5.06		1.31	1.7	20	41	0.59
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				
PATIENT	93	1.01		69.2 lbs	4.84 max	5.09	

REFERRING VET

Dr. Ezik

ULTRASONOGRAPHIC FINDINGS

Progressive mitral insufficiency with emerging myocardial insufficiency.

Increased left ventricular dilation and mild increase in left atrial dilation is concerning in this patient.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

DATE

2/1/22

Taurine levels and assessment for grain free diet history is indicated as well as thyroid assessment. If Addison's is a potential baseline cortisol would be indicated. I recommend adding to the current Pimobendan and Diltiazem protocol, ace inhibitor at 0.5 mg/kg s.i.d. progressing to b.i.d. and



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Spironolactone at 1-2 mg/kg b.i.d. A recheck echocardiogram is recommended in 3-4 weeks. The contractility is significantly diminished and left ventricular internal diameter has increased from the prior sonogram as well as mildly increased LA max measurement.

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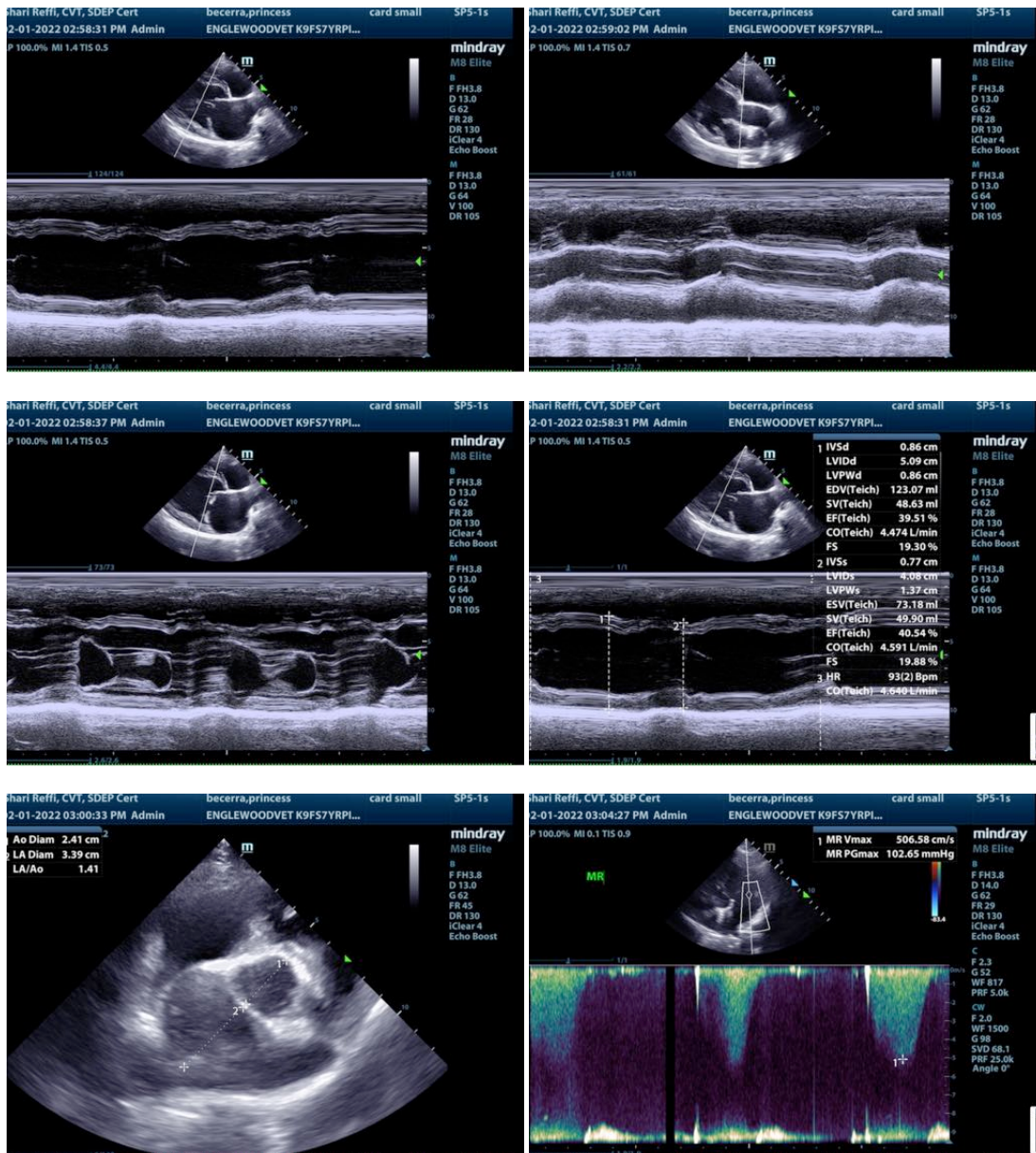
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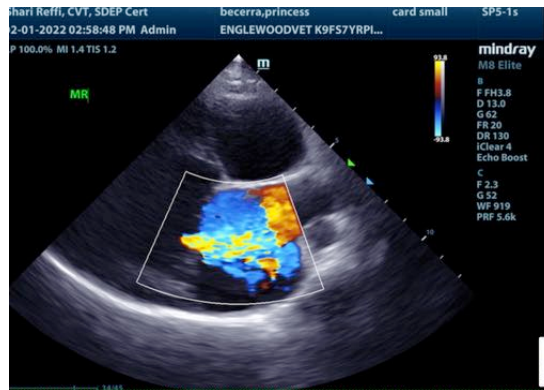
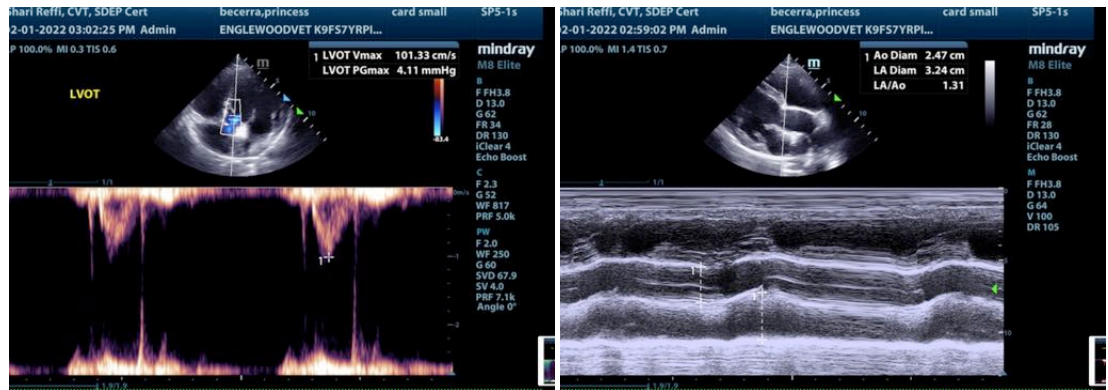
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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