



PATIENT PRESENTING CLINICAL SIGNS

Zoey La France History: Wheezing and depressed. Decreased appetite

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

King Charles Cavalier

SEX

Spayed Female

AGE

14 years

WEIGHT

15 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Rodriguez

HOSPITAL NAME

Foxfield VS

REFERRING VET

Dr. Rodriguez

INVOICE

30700

DATE

5/24/22

Chronic **left atrial** enlargement was noted in this patient. Ruptured chordae tendineae was present with severe **mitral** valve prolapse. Moderate to severe chronic left atrial enlargement was noted. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. 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 or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** 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. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window. Comet tail lung pattern was noted. This is consistent with pulmonary edema.

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC	VMAX	VMAX	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
PARAMETERS	(m/s)	(m/s)					
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
PATIENT	5.8	2.4	NM	2.35	50	82	0.1
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC	(BPM)	VMAX	MAX		2D short axis Base view	Avg; 2D and m-mode short axis	Avg; 2D and m-mode short axis
PARAMETERS		(m/s)	(m/s)		(cm)	(cm)	(cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	130		2.0	15 lbs	5.3 max	3.7	

ULTRASONOGRAPHIC FINDINGS

Comet tail lung pattern noted, consistent with pulmonary edema.

Advanced C1 valvular disease.

Left sided congestive heart failure.



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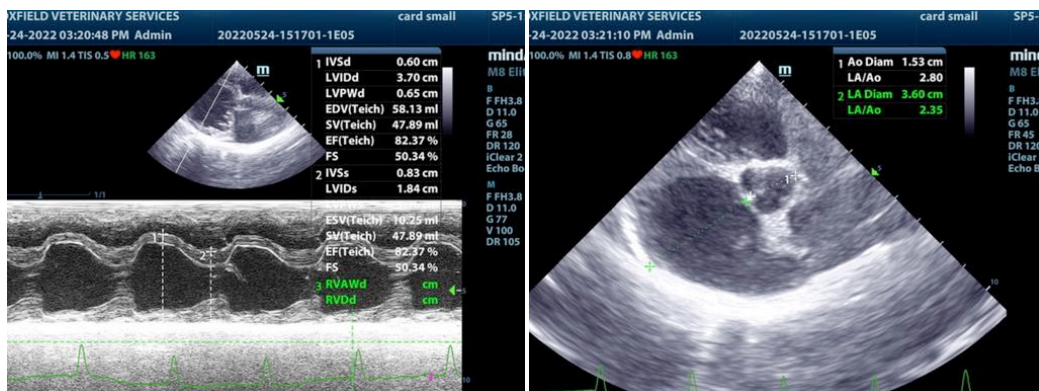
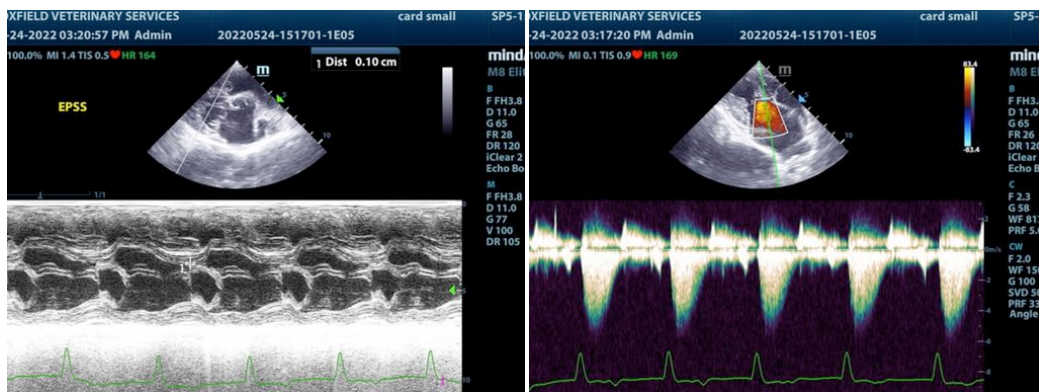
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Cage rest and quadro therapy is recommended in this patient. Pimobendan is recommended at 0.3 mg/kg b.i.d., ace inhibitor at 0.5 mg/kg s.i.d. progressing to b.i.d., Lasix 2-4 mg/kg b.i.d. and Spironolactone at 1-2 mg/kg b.i.d. Guarded prognosis. The patient is at risk for sudden death. Ruptured chordae tendineae and severe mitral valve prolapse.

C1: The heart is in a somewhat precarious state with volume overload and a heart that is working to compensate for the valvular insufficiency. Target respiratory rate is < 20 resp/minute after therapy. After initiating therapy, I recommend recheck on the clinical exam, BUN, Creatinine, USG, Chest radiographs & Blood pressure in 5-7 days. Recheck echo in 1 month. Earlier if clinical decompensation is occurring. I do not recommend anesthesia at this time until stabilization has occurred on the recommended medications. Repeat pre-anesthetic echo is ideal if anesthesia is eventually necessary.





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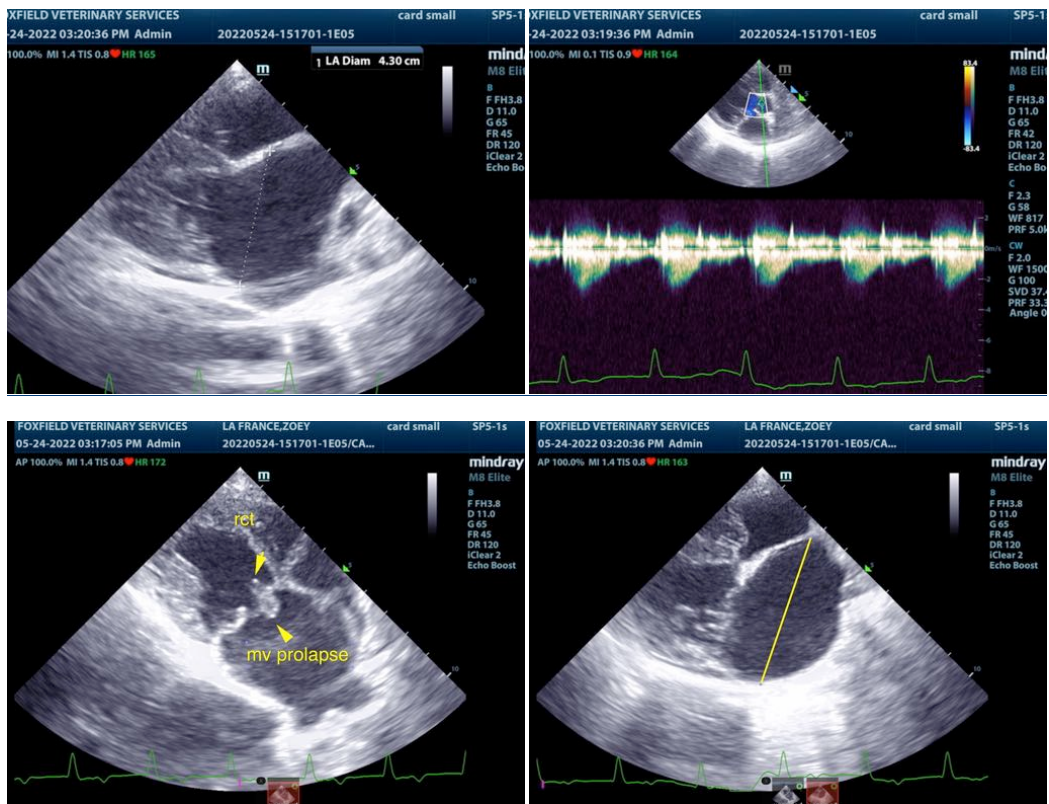
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
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