



**PATIENT PRESENTING CLINICAL SIGNS**

Chi Chi Cudrone

Hx of heart murmur, hx of heart mass? Current meds: Vetrimedin 1.25mg PO SID, omeprazole 20mg 14 tab SID, rimadyl 25mg SID, gabapentin 25mg 14tab BID, mitrazapine 7.5mg 1/2 tab SID, phenobarbital  
Abnormal PE/Chem/CBC/UA Results: BUN 45.6, ALP 237, pH 8.13

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

BREED	CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
Chihuahua								
SEX	NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
Male	PATIENT	5.28	3.0	1.8	1.76	68	95	0.1
AGE	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)
16 Years								
WEIGHT	NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
7.2 Pounds	PATIENT	99	1.0	0.6		2.9	2.51	

**INTERPRETED BY**

Eric Lindquist, DMV DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Jessica Miller

**HOSPITAL NAME**

Newton Vet Hospital

**REFERRING VET**

Dr. Chun

**INVOICE**

24914

**DATE**

8/25/21

**Cardiac Presentation**

The echocardiogram for this patient presented excessive **left atrial size** expressed both in the LA/AO and LA max measurements Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated measurable insufficiency. Minor prolapse of the anterior mitral valve leaflet 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** insufficiency noted. 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.

**ULTRASONOGRAPHIC FINDINGS**

- Mitral insufficiency with mild left atrial enlargement



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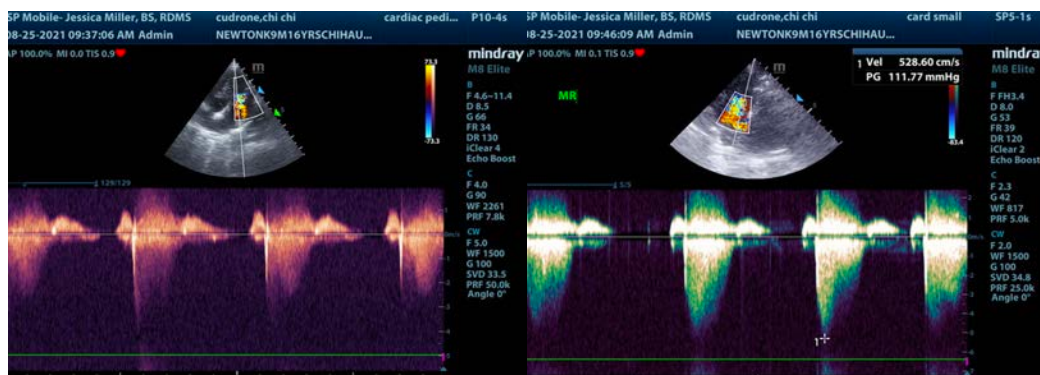
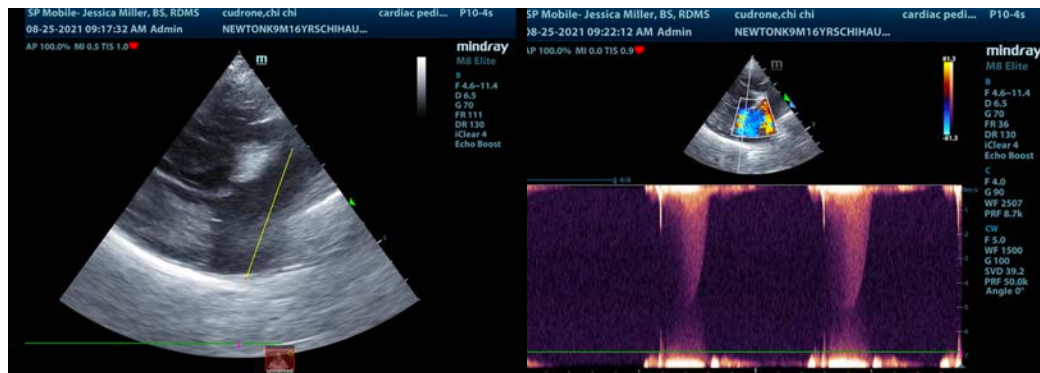
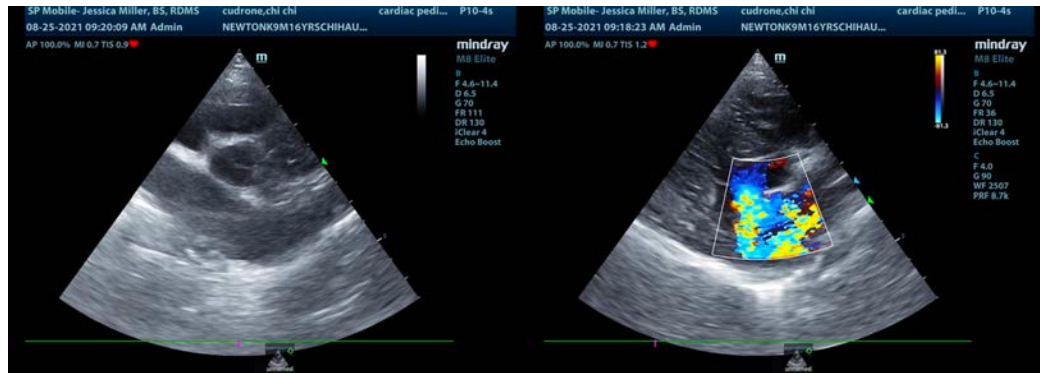
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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Mild left atrial enlargement on the current protocol, however appears stable. If basal respiratory rate is <20/min, I recommend maintaining the current protocol. Blood pressure measurements warranted. If systolic pressure is >160, ACE inhibitor therapy would be indicated. Recheck echo in 6 months, earlier if murmur grade increases or clinical signs initiate.





**PATIENT**

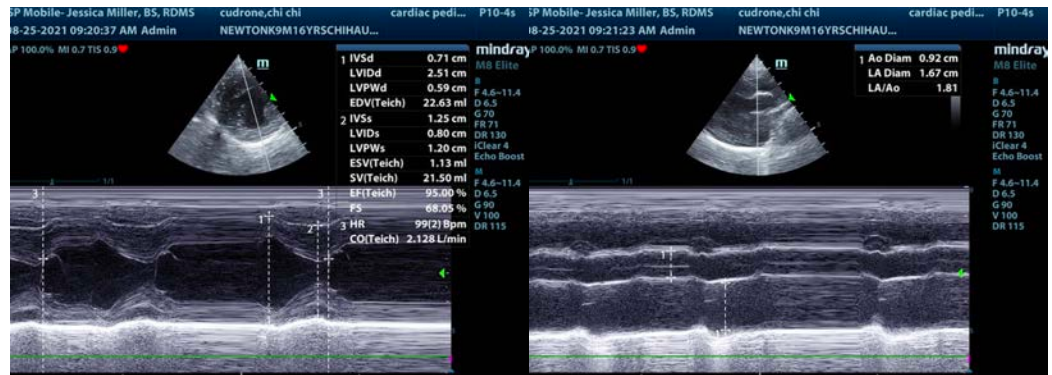
Chi Chi Cudrone

**SPECIES**

Canine

**BREED**

Chihuahua



**SEX**

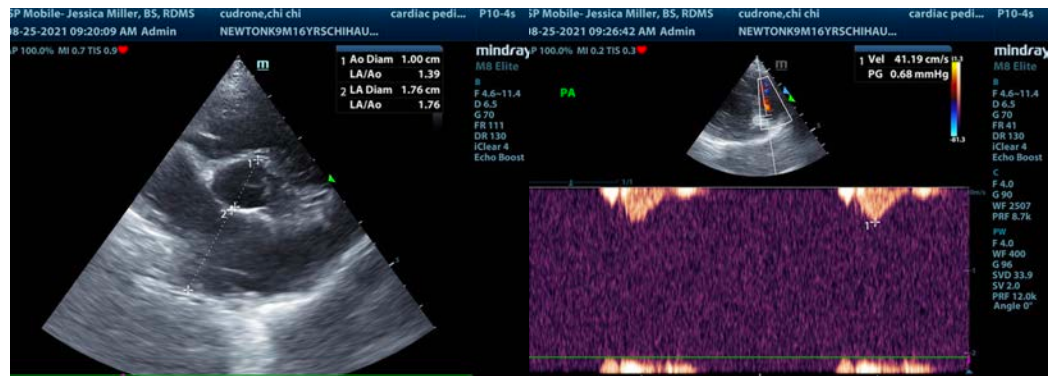
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**AGE**

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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.

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