

**PATIENT PRESENTING CLINICAL SIGNS**

Dipstick Rojas Grade V/VI murmur.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Canine The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. Concurrent **mitral** valve insufficiency 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 **aortic valve** was thickened as well and the aorta was overriding. The right atrium was moderately enlarged and measured 1.5:1.0 to the left atrium in four chamber long axis. The **tricuspid** valve was thickened with insufficiency. Significant **right ventricular** hypertrophy was noted with stenotic pulmonic valve and right ventricular outflow was severely elevated with a velocity > 6.0 m/sec. Post valvular dilation was noted in the deep pulmonary artery. Membranous ventricular septal defect was noted with thickened, irregular membranous septum. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window.

**BREED**

French Bulldog

**SEX**

Female

**AGE**

12 weeks

**WEIGHT**

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	5.0	>6.0	1.3				NM
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)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT		2.0	5.28		2.23		

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

Warren AH

**REFERRING VET**

Dr. Nicole

**INVOICE**

95008

**DATE**

1/5/22

**ULTRASONOGRAPHIC FINDINGS**

Tetralogy of fallot.  
Pulmonic stenosis.  
Ventricular septal defect.  
Overriding aorta.



**PATIENT**

Dipstick Rojas

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Prognosis is poor. The breeding line should be evaluated for similar cardiac defects.

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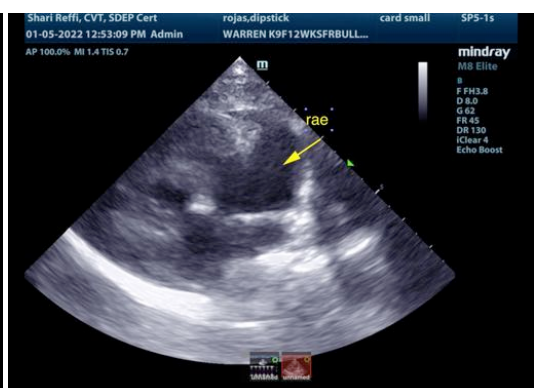
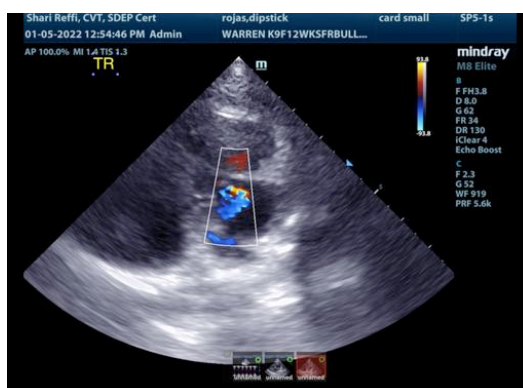
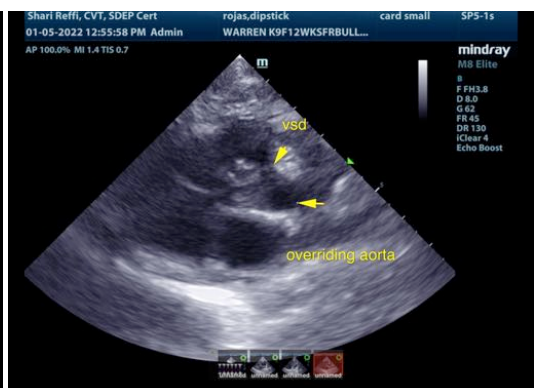
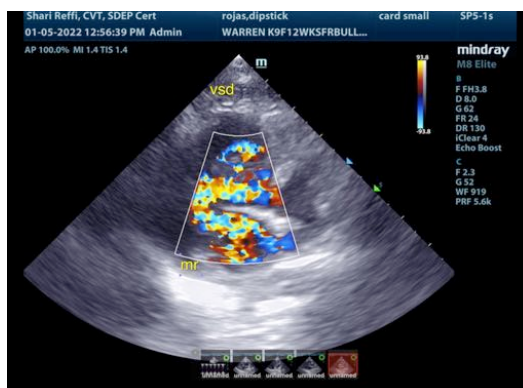
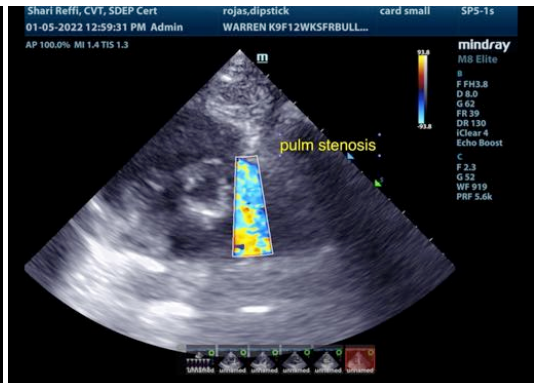
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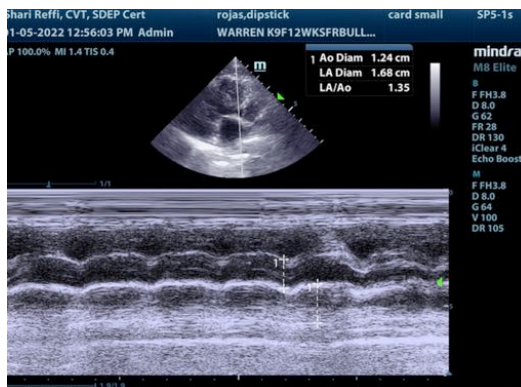
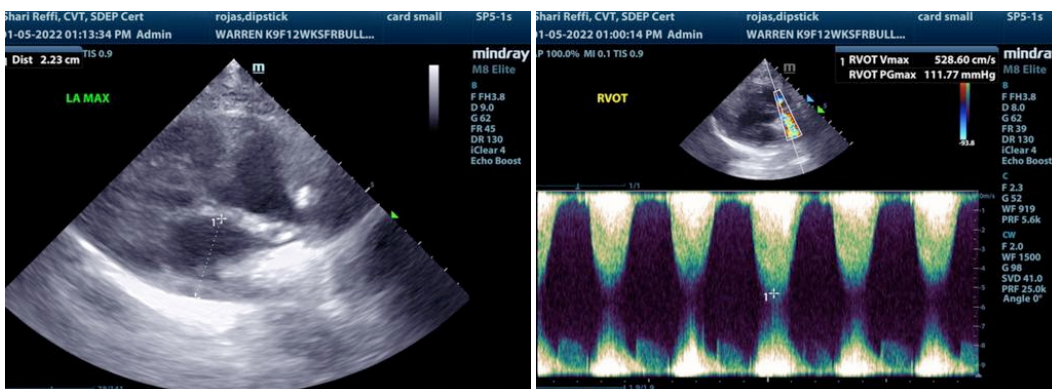
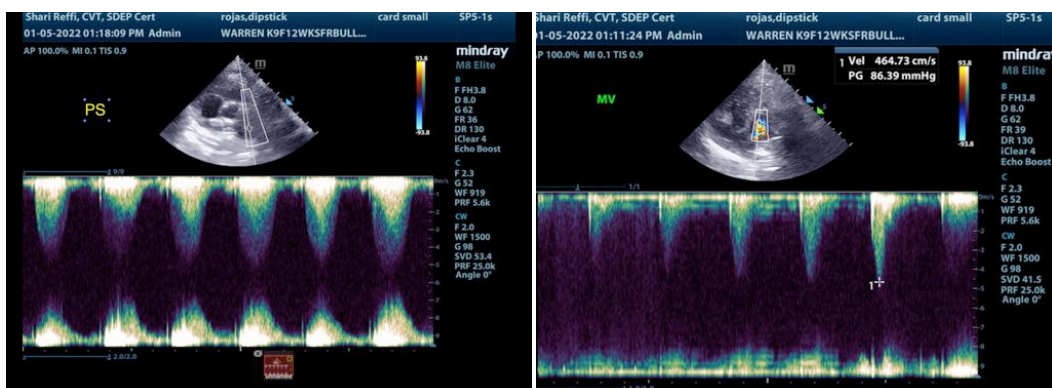
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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