



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Skye Eismont
PRESENTING CLINICAL SIGNS Presented for vaccinations. When had Ear Crop Sx done the vet heard a murmur. Abnormal PE/Chem/CBC/UA Results: Bilateral Systolic 3-4/6 murmur. Radiographs suggest pulmonary edema present.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Doberman

The echocardiogram in this patient demonstrated mild **left atrial** enlargement. **Mitral** valve insufficiency was present with volume overload of the **left ventricle**. The aortic outflow velocity is elevated and compensatory at 3.5-4.0 m/sec. Left-sided volume overload was noted primarily in the left ventricle with hypercontractility. Aortic outflow presented aortic insufficiency and increased **left ventricular outflow velocity** with a slight aortic valve thickening. This is consistent with subaortic stenosis. However, some level of excessive outflow velocity may be present owing to the PDA presence, yet aortic insufficiency is also present. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was unremarkable. The **deep pulmonary artery** revealed a holosystolic flow that is consistent with PDA. 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.

SEX

Spayed Female

AGE

11 weeks

WEIGHT

19 lbs

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Doverspike

HOSPITAL NAME

Franklin Animal Clinic

REFERRING VET

Dr. Doverspike

INVOICE

98158

DATE

4/8/22

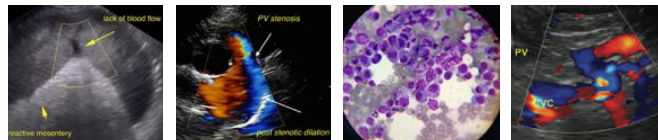
CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
PATIENT	5.0		1.3	1.8	35	48	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LA (2D short axis 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	90	3.75	2.05	19 lbs	3.15 max	3.93	

ULTRASONOGRAPHIC FINDINGS

Patent ductus arteriosus with aortic insufficiency, mitral insufficiency and possible some level of subaortic stenosis; however, compensatory elevated velocity is also likely contributing.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend referral to cardiologist for further intervention. The breeding line should be evaluated for similar congenital defects. This patient should not be bred.



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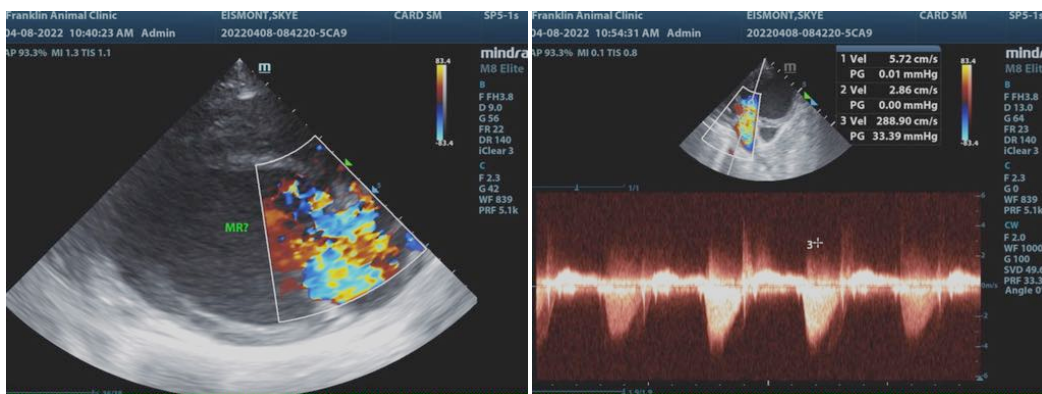
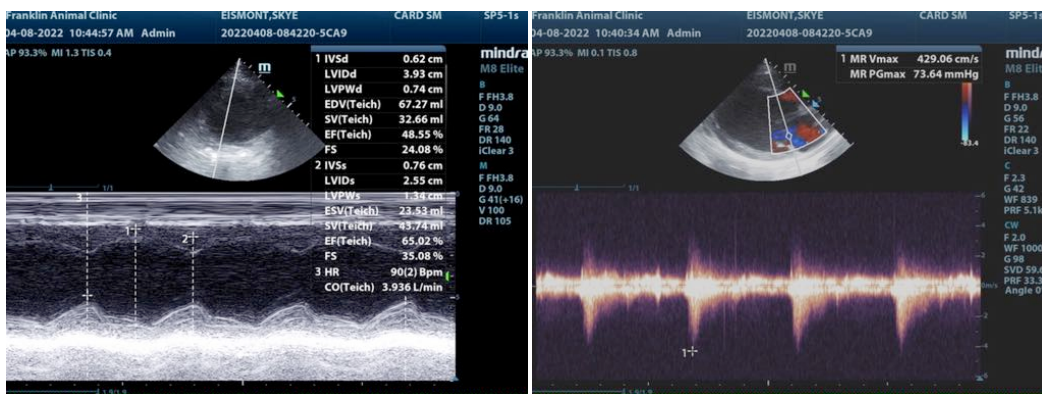
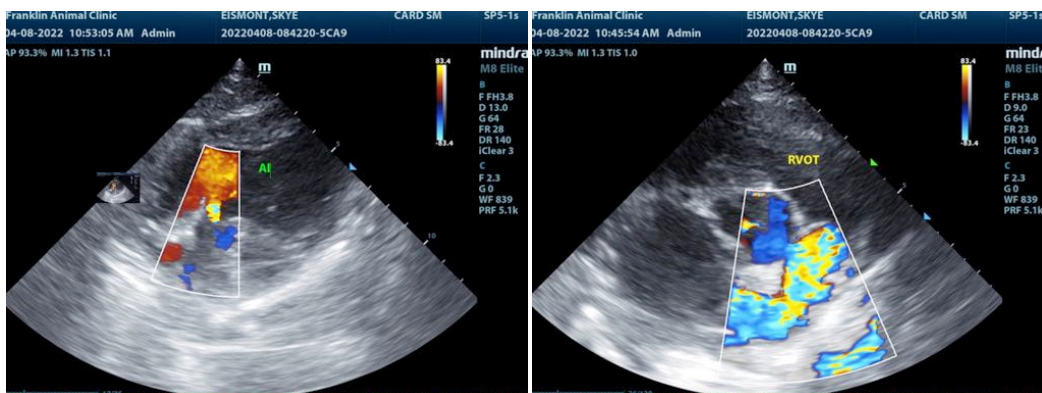
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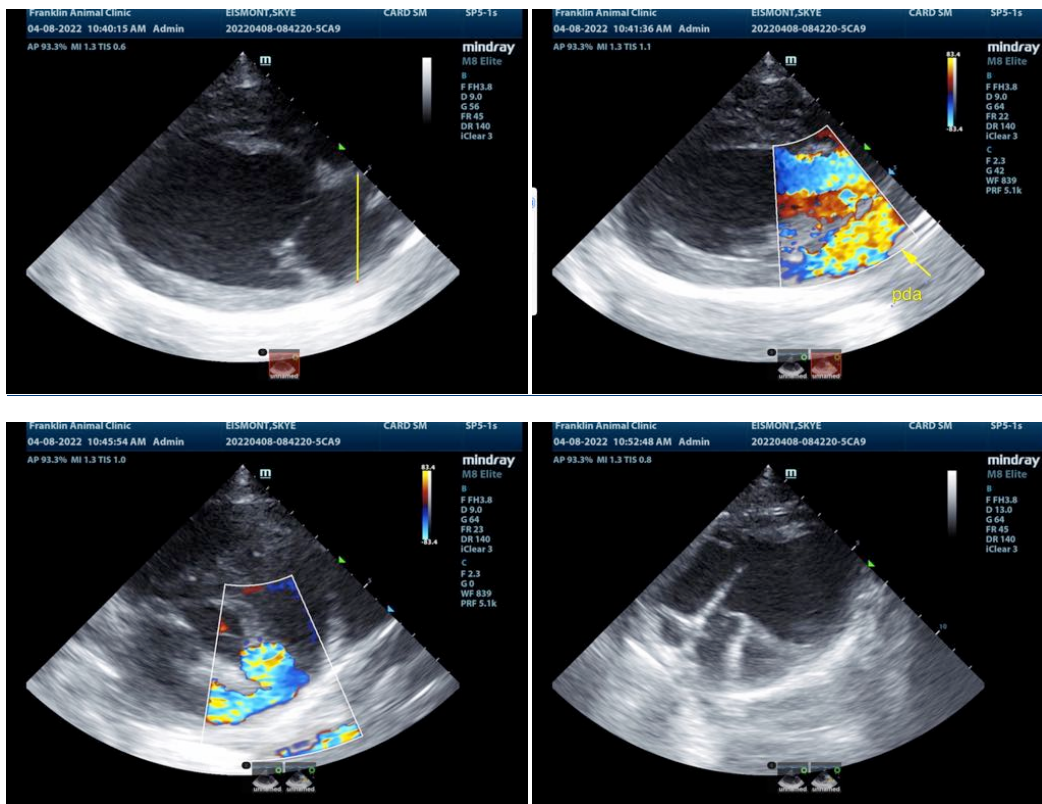
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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