



PATIENT

Clementine MacArthur

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed Female

AGE

8 months

WEIGHT

8.2 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Millburn

REFERRING VET

Dr. Turowsky

PRESENTING CLINICAL SIGNS

Murmur appreciated on general exam, 3-4/6 right murmur. Chest rads- moderate cardiomegaly. Asymptomatic.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. The cranial and caudal **mitral** valve leaflets presented normal linear structure and kinetics. The aortic valve was thickened and mildly dysplastic. The **left ventricle** presented flattened ventricular septum owing to volume overload in the right heart and development of Eisenmenger's physiology. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. Atrial septal defect was noted as well and measured 0.8 cm. The ventricular septal defect measured 0.5 cm. Both of which caused volume overload of the right heart and left to right shunting. The **right atrium** and **right ventricle** presented a significant volume overload. A large, ventricular septal defect was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinetics. **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 or extra cardiac pathology in the visible planes. The cranial **mediastinum** and **pericardial regions** were free of masses in the visible window. Hepatic vein dilation was not present at this time. However, right sided heart failure will likely occur in the near future.

FELINE CARDIAC PARAMETERS	BODY WEIGHT	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	8.2 lbs	163	0.43	1.44	0.34	50	84
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	1.14	1.25		1.11	1.21	NM	

Adapted from June Boon, Veterinary Echocardiography, 1998
Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705

INVOICE

94945

DATE

1/4/22

ULTRASONOGRAPHIC FINDINGS

Multiple congenital defects.

Ventricular septal defect and atrial septal defect.



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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Prognosis long term is poor. However, right-sided failure is not present at the moment as the hepatic veins were not dilated.

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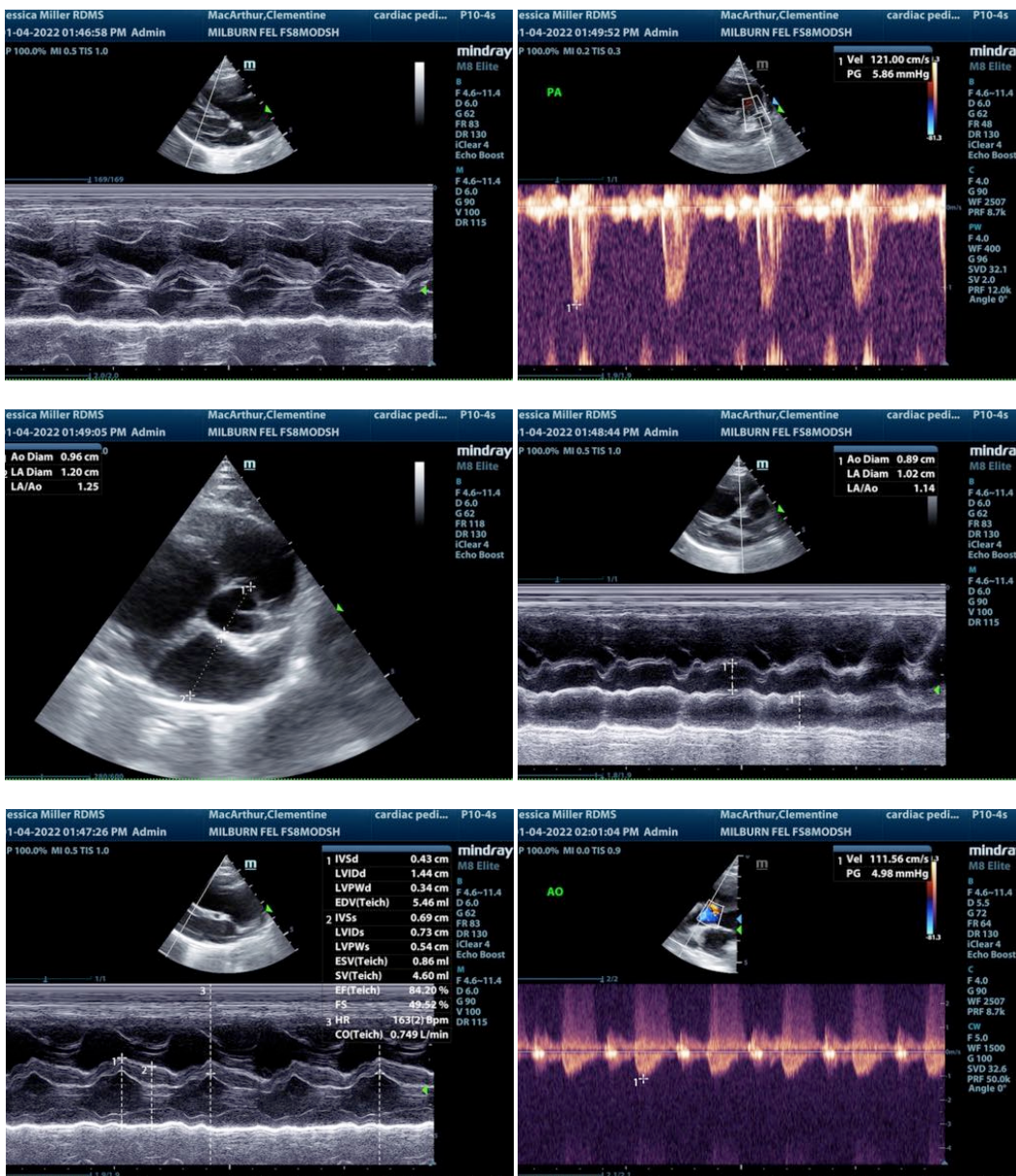
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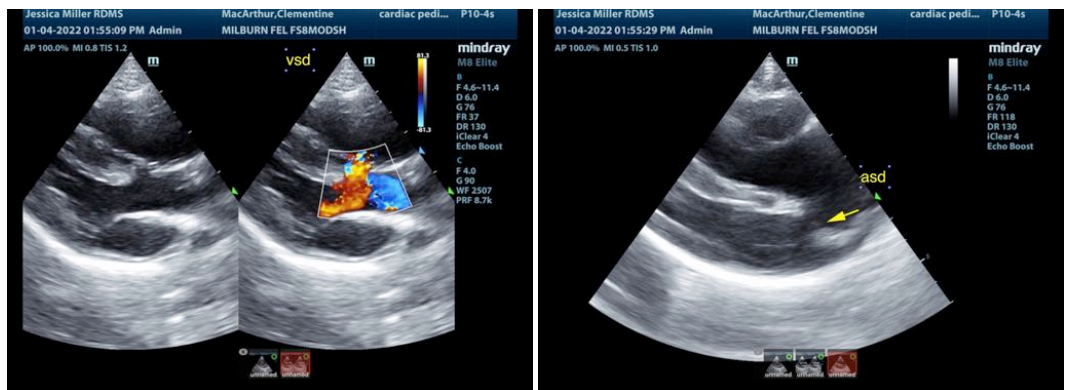
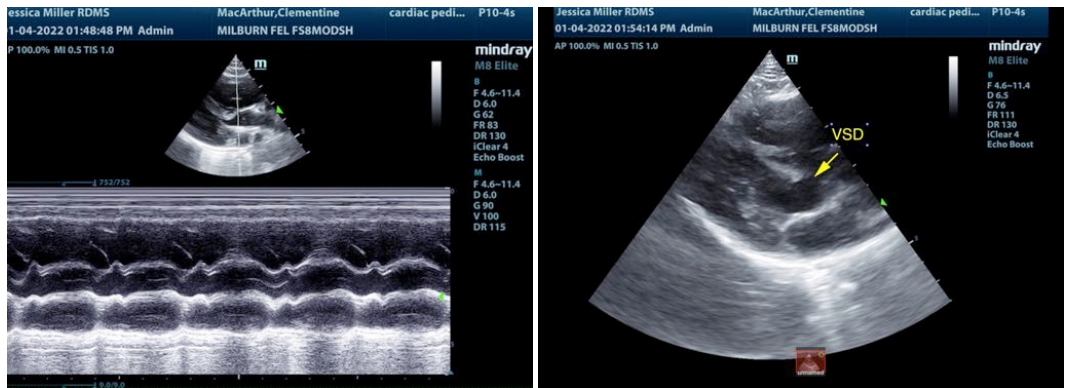
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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