
PATIENT PRESENTING CLINICAL SIGNS

Kitten 53330a History: 6/6 systolic murmur/palpable thrill

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Feline

BREED

Domestic Shorthair

SEX

Intact female

AGE

8 weeks

WEIGHT

2 lbs

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. Mild **mitral** valve insufficiency was noted in this patient. The **left ventricle** presented normal thicknesses. Large **ventricular septal defect** was noted in this patient with left to right shunting with some reversal of flow. 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 and angles of the myocardium. The **left ventricular outflow** tract revealed compensatory elevated velocity of 3.5 m/sec. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. Minor **tricuspid** insufficiency was noted. **Right ventricular** hypertrophy was noted. Volume overload was noted in the **right ventricular outflow tract** and pulmonary artery with a thickened pulmonic valve. The velocity was excessive at 3.5 m/sec. This is likely compensatory; however, some level of pulmonic stenosis and pulmonic valve dysplasia appears to be present. Excessive volume was noted in the deep pulmonary arteries. 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.

INTERPRETED BY

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

IMAGING PERFORMED BY

 Andrea Nicastro, DVM,
 Diplomate ACVIM
 (Small Animal Internal
 Medicine)

HOSPITAL NAME

 Charleston Animal
 Society

REFERRING VET

Dr. Pelletier

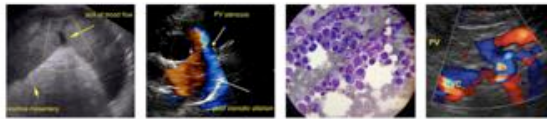
INVOICE

97749

DATE

3/24/22

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	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		NM	0.3	1.15	0.35	55	
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	1.6		1.3	3.5	3.5	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							



PATIENT ULTRASONOGRAPHIC FINDINGS

Kitten 53330a Large, ventricular septal defect.
Left to right shunting with some reversal of flow.
SPECIES Right ventricular hypertrophy.
Feline Thickened pulmonic valve.
BREED Minor mitral insufficiency.
Domestic Shorthair Compensatory LVOT velocity.

SEX INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Intact female The prognosis is poor long term in this patient. Supportive care with potential Atenolol therapy is recommended if exercise intolerance becomes an issue.

AGE

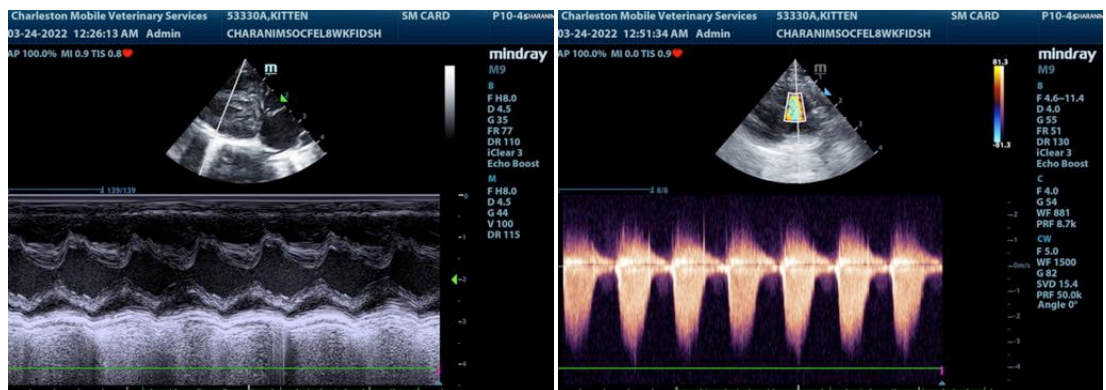
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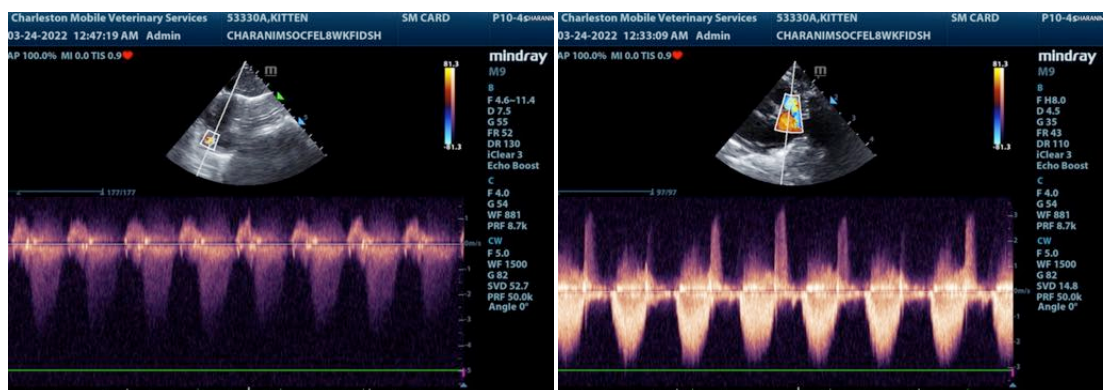
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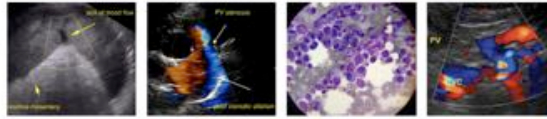
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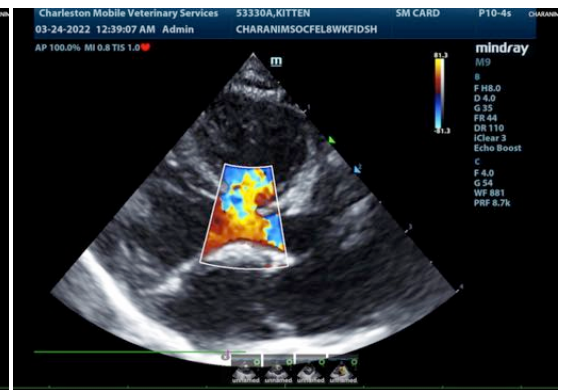
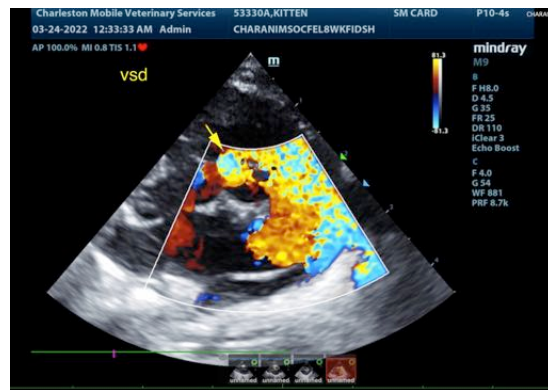
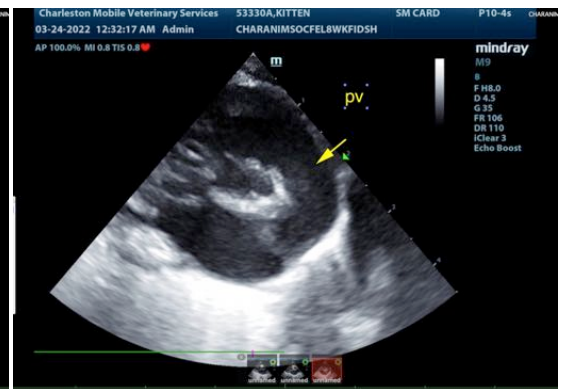
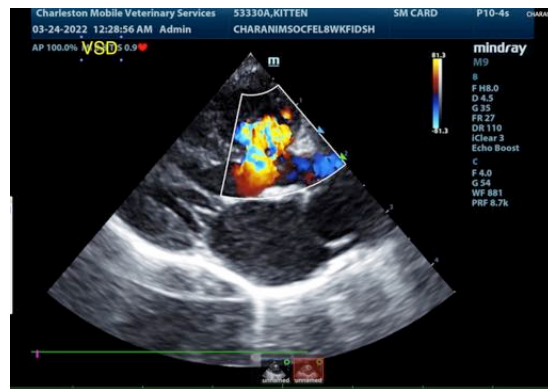
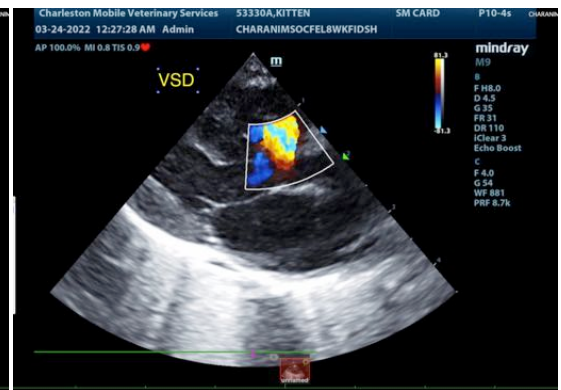
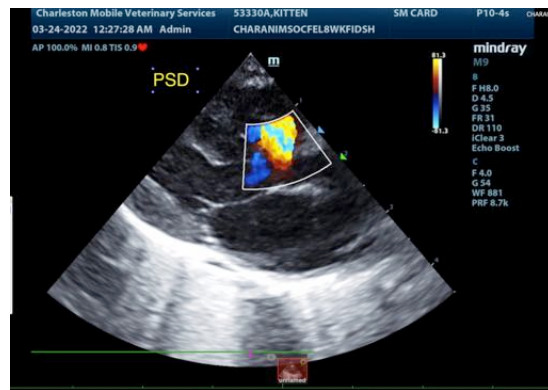
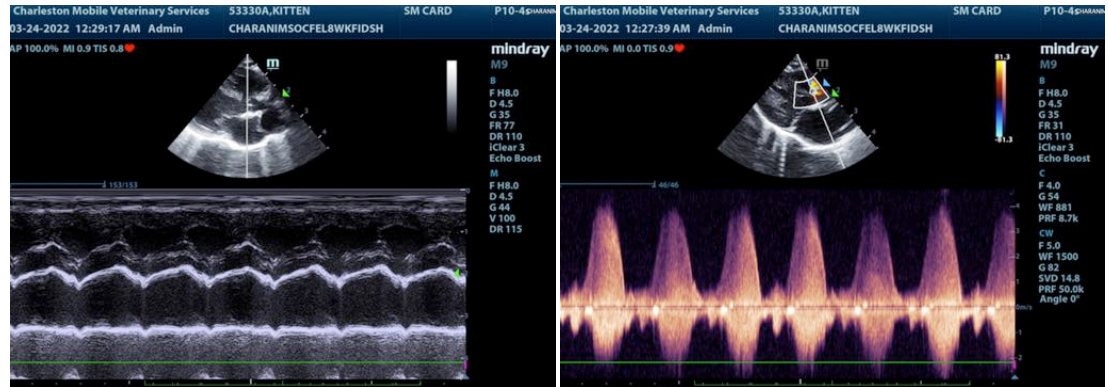
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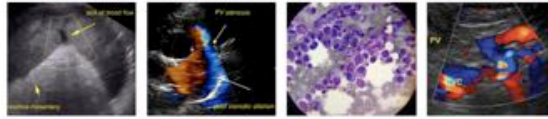
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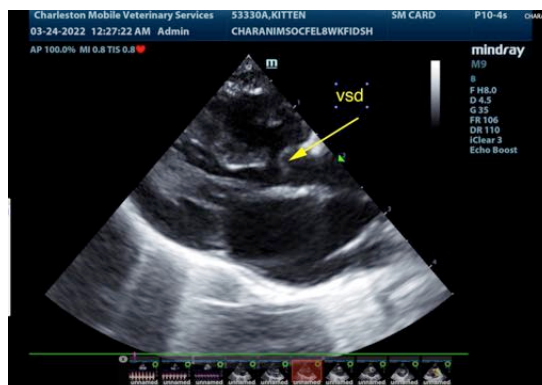
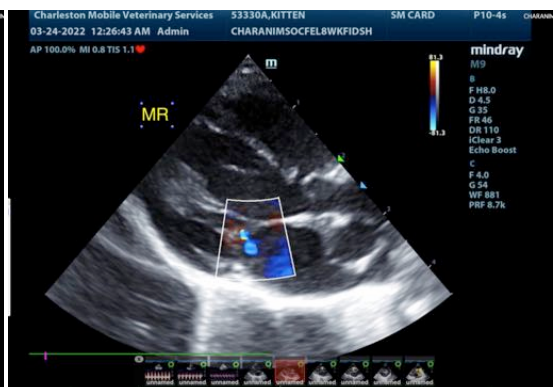
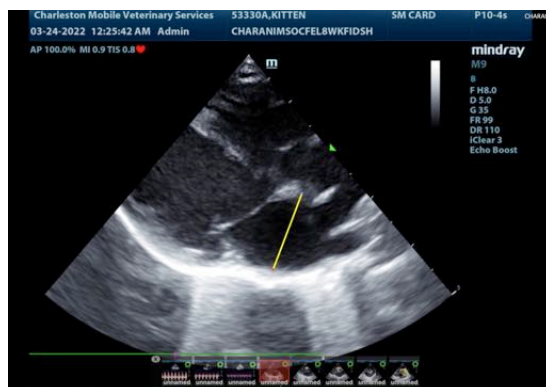
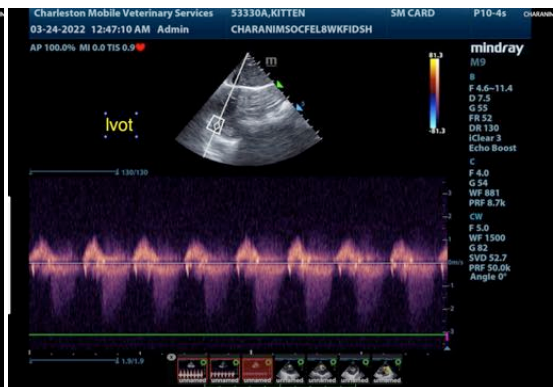
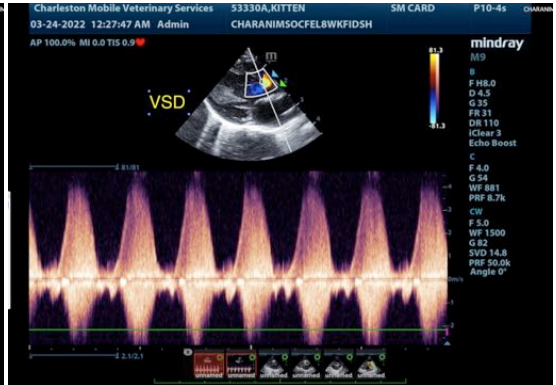
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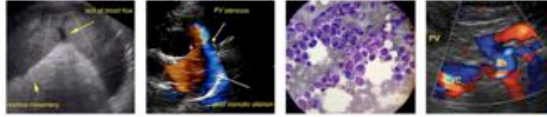
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

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