


PATIENT PRESENTING CLINICAL SIGNS

Mak Kuchino Grade 3 Left side, gr 2 r side murmur, needs anesthetic for possible neuter

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

German Shepherd

SEX

Intact male

AGE

19 months

WEIGHT

74 lbs

INTERPRETED BY

 Eric Lindquist, DMV
 DABVP, Cert. IVUSS

**IMAGING
 PERFORMED BY**

Kelly Reshny, RVT

HOSPITAL NAME

The Maples AH

REFERRING VET

Dr. Kazienko

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. 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** revealed mildly increased velocity with secondary aortic insufficiency. This is consistent with minor form of subaortic stenosis. Aortic insufficiency was trivial and measured at 3 m/sec. 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 of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** 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. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window.

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			0.94	1.15	53	85	0.41
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		3.0	1.8	74 lbs	4.23 max	3.7	

ULTRASONOGRAPHIC FINDINGS

Mildly increased velocity of the LVOT with secondary aortic insufficiency. Consistent with minor subaortic stenosis. This is not clinically significant and will likely not cause this patient any issues.

All other valvular structures reveal laminar flow.

Otherwise, unremarkable echocardiogram.

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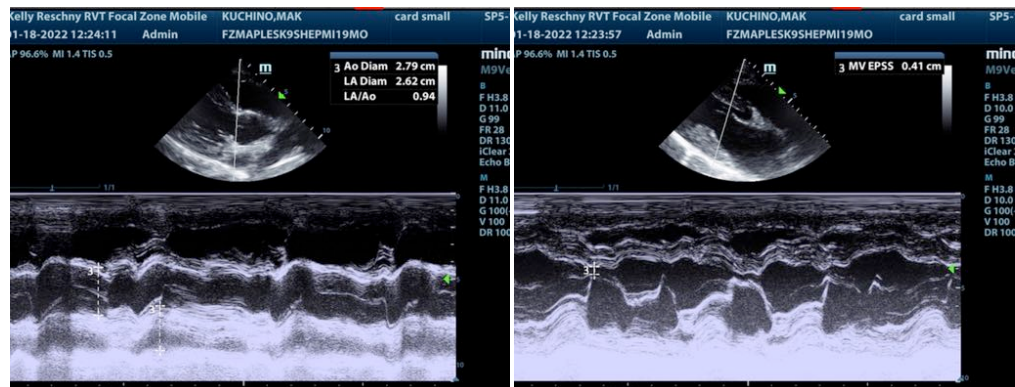
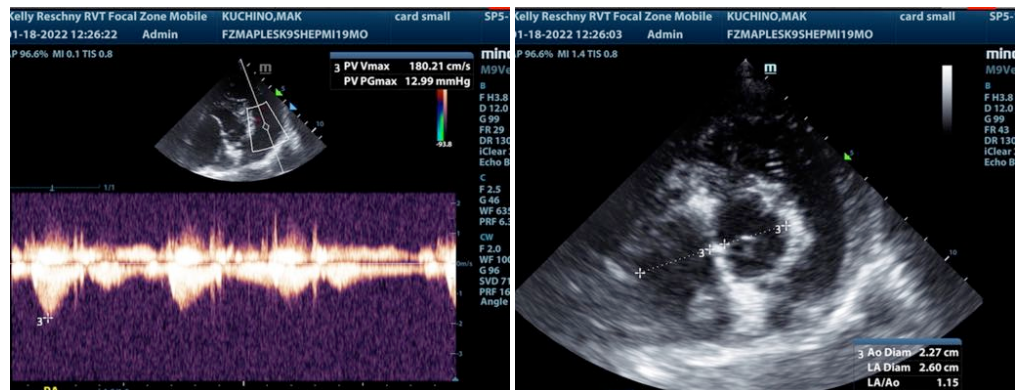
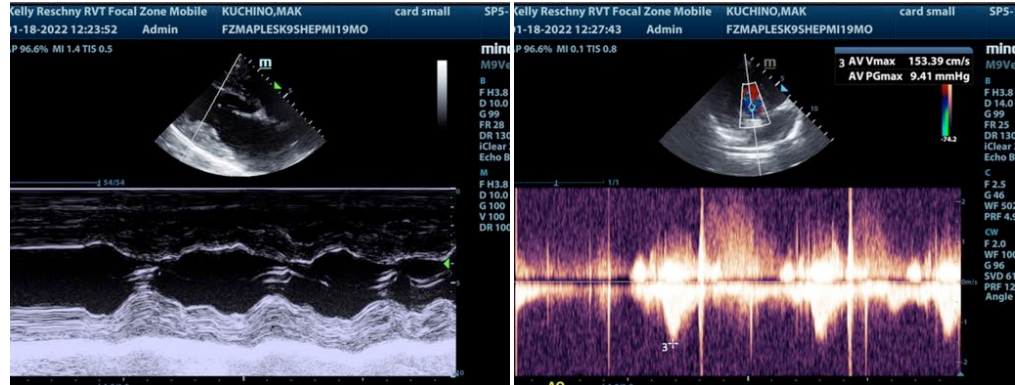
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is no overt contraindication to anesthetic procedure. I recommend prophylactic antibiotics 3 days prior and 3 days post procedure. Recheck echocardiogram in 1 year.



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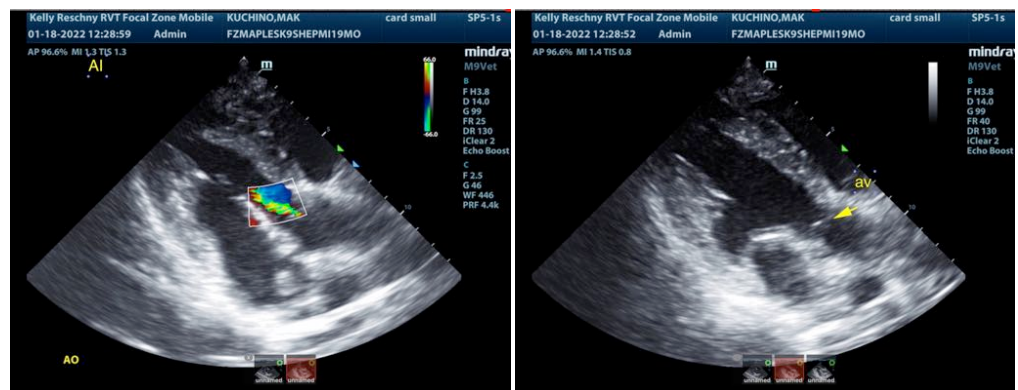
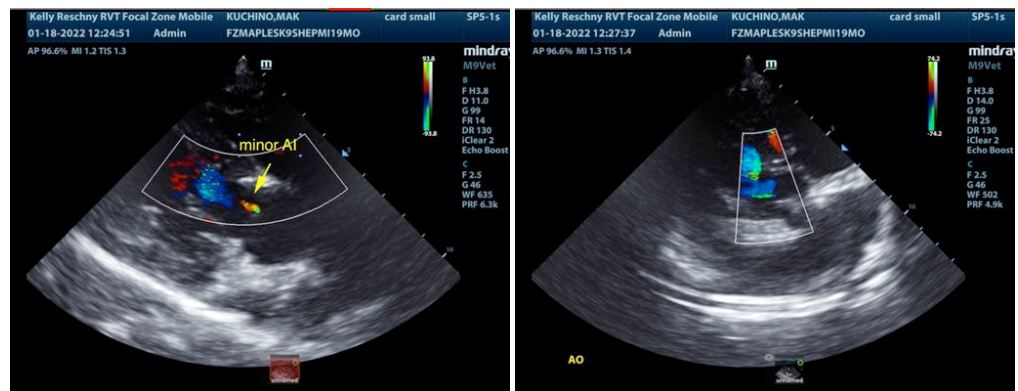
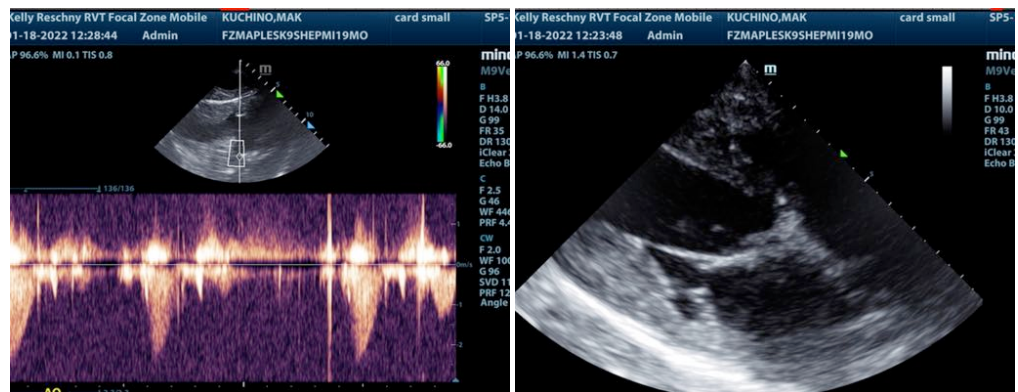
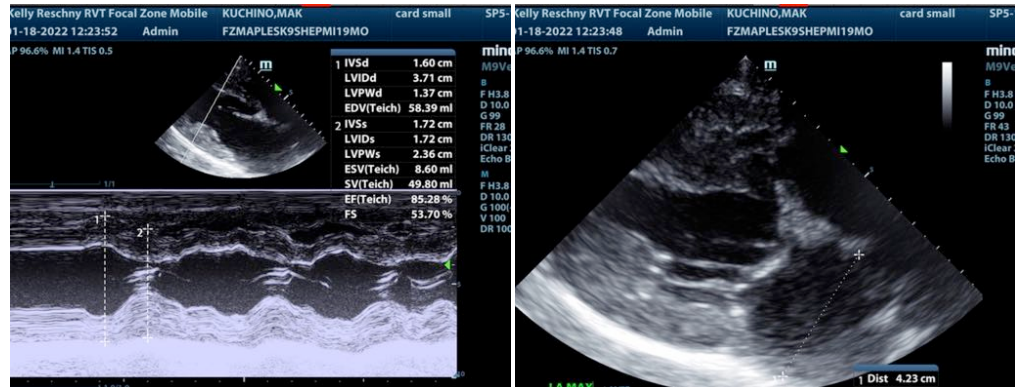
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veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

SPECIES

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Eric.Lindquist@SonoPath.com

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